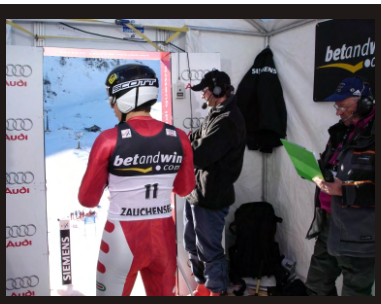
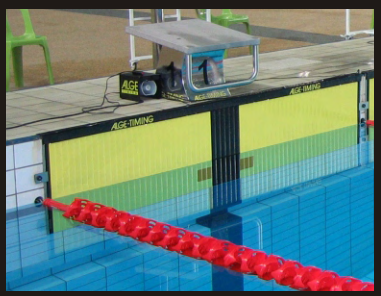
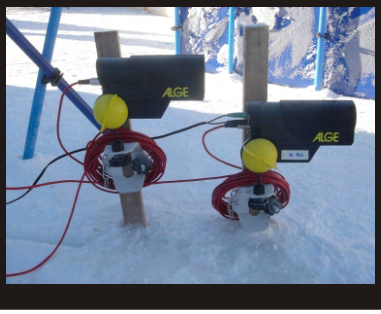
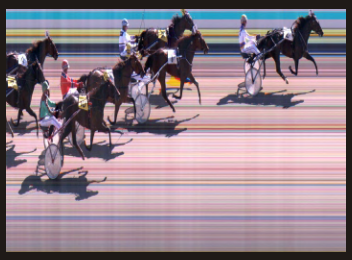
THE SPECIALIST FOR SPORTS TIMING

2008









ALGE TIMING

Table of Contents

ALGE-TIMING

ALGE-TIMING has successfully been producing electronic timing systems for decades. Longtime Experience, constant development and research are the basis for this success.

The company was founded in 1946 and has been specialized in sports timing since the seventies. ALGE-TIMING is a family-owned company in third generation. Six persons of a total staff of 25 people work permanently in development and research.

The products are distributed by independent sales partners in more than 40 countries worldwide.

ALGE-TIMING can offer a complete range of timing products and display boards. Small private clubs, communities, stadium builders or timing professionals will receive competent consulting and solutions for their requirements from one supplier.

ALGE-Timing Devices and Accessory

Timedata Computer TdC 8001

It is based on three decades of experience in timing international competitions. Designed for year-round usage, this user-friendly device incorporates all features that professional timekeepers expect.

- intuitive design with clearly displayed menus increase the ease of operation and speed of learning curve.
- clean and purposeful keyboard and screen layout allow timing functions to be split into start and finish tasks
- large, easy readable seven-segment display (LCD) for ID-numbers and time
- alphanumeric LCD display for operator guidance and supplementary information
- certified extremely high accuracy with a temperature compensated quartz crystal that measures a 10,000th part of a second
- 10 independent timing channels (e.g. start, 8 intermediate times, finish)
- four independent races can be held each with the same number range
- identification numbers of up to 9999 and large memory for up to 9999 times per race
- buffer for up to 9999 times for competitors who arrive in groups at the finish
- each timing impulse is stored, no time can be lost
- universal software for most time related sports is included
- built-in NiCd-rechargeable battery for independent use in all situations
- printing of a ranking in almost any form is possible
- high temperature range – TdC8001 works also at very low temperatures (down to –25°C / - 13°F)
- automatic mode with automatic advance of the ID number for start and finish
- built-in speech-amplifier to connect a headset for interference-free speech connection between start and finish
- interface for display board, PC (race evaluation) and data communication by radio

Timy

A handheld timing device and terminal that meets all expectations. Available in different models, Timy XE (without printer), Timy PXE (with printer):

- certified extremely high accuracy with a temperature compensated quartz crystal
- graphic display with 128 x 64 pixel
- silicon keyboard which is easy to operate
- universal software
- large memory (up to 18,000 times)
- RS 232-, RS 485-, USB-, and display board interface
- 9 timing channels (extension is possible of up to 99 channels)
- FLASH Memory, software update per internet possible
- integrated thermo printer (model PXE)
- usable from –20 to 55°C (-4° to 122° F)

Timer S4

The universal 18-channel timing device for all kind of time and speed measurement. Due to the easy operation and flexible interfaces it is a perfect device as timer in combination with a PC.

- certified extremely high accuracy with a temperature compensated quartz crystal
- 18 independent timing channels and a memory capacity of up to 8000 times
- ideal timer with a selectable baud rate for usage with a PC-timer-software
- RS232 interface for display board, printer and PC
- built-in speech amplifier for headset

Printer P5

Fast, external graphic thermo printer to connect with ALGE devices or RS 232 interface.

- function up to –20°C (-4° F)

Photo Finish OPTIc2 and OPTIc2o

Color photo finish system to evaluate mass arrivals and to guard the finish line.

- best picture quality with 16 mil. colors, 1360 pixel per line, and up to 3000 lines per second
- latest sensor technology that allows working in poor light conditions
- highest timing accuracy through temperature compensated quartz oscillator TCXO
- recording duration only limited by the hard disk
- model OPTIc2 for short cable distances between camera and PC (max. 30 m)
- model OPTIc2o for long cable distances between camera and PC (up to 500 m with optical cable)
- easy to operate software and high reliability using Windows XP
- usable on a desktop PC or notebook with IEEE 1394-OHCI compatible interface

Headset Q34 and Speech Amplifier SV4

The headset can be used directly with most ALGE-timers. If the timer does not have a built-in speech amplifier it is possible to use the external SV4.

- Headset Q34: high quality, reliable headset that fits easy and keeps your arms free
- Speech Amplifier SV4-S: Speech Amplifier for a two-wire-connection and speech key
- Speech Amplifier SV4-SM: like SV4-S but with connection for Startmicrophone Sm8

ALGE-Timing Devices and Accessory

Startgate STSn

Startgate which resists the highest mechanical requirements. Different types are available:
- STSnM1S – manual reset, 1 contact, built-in speech amplifier
- STSnM2S – manual reset, 2 contacts, built-in speech amplifier, for FIS races
- STSnA1 – automatic reset, 1 contact, no speech amplifier

Photocell RLS1n and RLS1nd

The rugged photocell RLS1 demonstrated in many events the advanced, but well proved technology:
- reflection photocell RLS1n: usable up to 25 m distance, output through banana socket and DIN-socket, internal or external power supply, complete with reflector, swivel head, fastening console, and cable
- photocell with separate transmitter and receiver RLS1nd: usable up to 100 m distance

Display Board GAZ4

For ausdience's information, figure height 15, 25 or 45 cm with yellow figures on black background
- ALGE-timers can show the time or ID number/rank on this display board for the public
- internal clock with stopwatch and stop function or countdown with timeout
- can be controlled by any device with RS 232 interface in ALGE-format (e.g. TED)
- best readability even with direct sunlight
- mains or battery operated, low energy consumption
- rugged aluminium case for outdoor use

LED-Display Board D-LINE

For audience's information, red LED, figure height 57, 100, 150, 250, 300, 450 or 600 mm for indoor, and 150, 250, 300, 450 and 600 mm for outdoor (usable in direct sun light)
- internal clock with stop function and internal countdown with timeout function
- controlled by any device through RS 232 interface or Ethernet
- available with radio time receiver (DCF or GPS) or temperature sensor
- power supply directly from mains
- rugged aluminium case

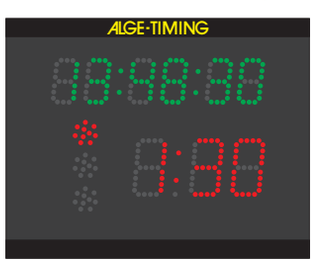
LED Matrix-Display Board D-RTMN

Public information, advertising, time and temperature, etc.
- matrix-display board with 16 x 96 pixel, per pixel 3 or 4 LED
- outdoor or indoor version of the display board is available
- display fields are free configurable for external data
- directly controlled from ALGE-timers, you can load names from a PC into the board (Ethernet)
- Measurements: Type D-RTNM-P4-16x96-O: Length 2.2 m, height 0.5 m, depth 0.097 m, alternative sizes available!

Teledata TED-TX/RX

The device for a safe, wireless transmission of timing impulses or data.
- device needs at least a transmitter TED-TX and receiver TED-RX
- generally approved in most countries – no fee in the 433 MHz band
- transmitter TED-TX10 with 10 mW for distances up to 1.5 km
- transmitter TED-TX400 with 400 mW for distances up to 5 km
- device can transmit up to 10 different timing channels
- RS 232 interface for universal use, multiple system prevents false triggering or data errors

Startclock ASC2



Start device showing digitally the time of day and countdown as well as an acoustical countdown.
- start interval with adjustable acoustic countdown up to 9 min. 59 sec.
- led and leg time is adjustable (time during which the start must be).
- LED light shows with red, yellow or green the free start (green is free)
- sport specific adjustable countdown times and start free times
- connection for peripheral devices (e.g. startgate, photocell) for backup timing
- memory and RS 232 interface

Startbeep STB1

Acoustic start control unit at a competitive price:
- 9 fix programmed and two freely programmable start intervals
- synchronisation with timing device is possible
- output contact (potential free normally open contact) to start another timer
- also usable as replacement for a start gun (e.g. swimming, athletic)

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ALGE Timy

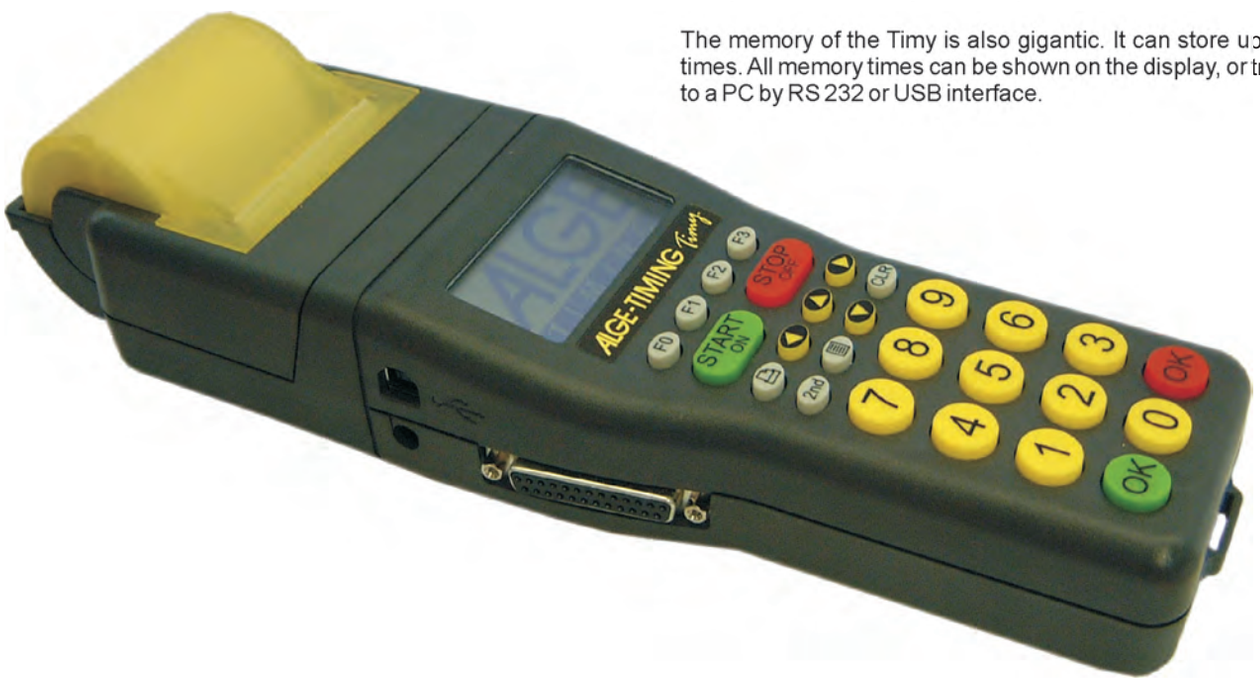
The ALGE Timy is a handy device, fully loaded with high-quality technology. This makes it unique in its class.

During the development, particular attention has been paid to the operating convenience and the ergonomics. The familiar ALGE values like highest reliability and robust design are also incorporated in the Timy. Latest technology has been integrated in an especially designed case made for timing only, which makes the Timy exceptional.

In spite of the handy measurement, the Timy exhibits a large and well operable silicone keyboard. In any weather condition, even with gloves, one can operate the keyboard easily. In the case of the types Timy P and Timy PXE a printer is integrated in the Timy and records the entire race.

Of course the Timy is also equipped with the necessary interfaces for communication with external devices. It has an interface for display boards, an RS 232 interface for communication with a PC, an RS 485 interface to establish a network of timing devices, and finally, as world novelty, a future-proof USB interface.

The memory of the Timy is also gigantic. It can store up to 15,000 times. All memory times can be shown on the display, or transmitted to a PC by RS 232 or USB interface.



Display:
The Timy has a monochrome LCD graphic display with 128 x 64 pixel. This allows us to write up to 8 lines of text or to use different character sizes in the display. Also graphical symbols for assistance of the operator are possible. The display has an extended temperature range for use in cold weather conditions (e.g. winter sport).

Keyboard:
In spite of the handy measurement, the Timy exhibits a large and well operable silicon keyboard with 26 buttons. One can handle the Timy without difficulties even with gloves.

Accuracy:
Every time of day is registered with an accuracy of 1/10,000th second. That means, that calculated net times of a precision of 1/1000th are exact calculated. Highest accuracy at any temperature is guaranteed by use of a temperature compensated quartz.

Printer:
The Timy PXE has a built-in terminal printer. This silent and extremely fast printer allows to change the paper in a very simple way. The feed roller is combined with the printer cover and therefore it is not necessary to feed in the paper.

Memory:
Memory up to 15,000 times including ID-number and channel information. The software is on a FLASH-Memory which allows an upgrade of the software via internet from the PC.

Case:
Great attention has been placed to ergonomics and stability. The aim of the developers was to produce a timer that has all advantages of modern technology in a compact, handy but rugged case. This design has been chosen so that it is usable as a handheld and desktop device.

Connections:
The big difference of the Timy compared to other timing devices of its class and size is the wide range of connections with other devices. E.g. it is possible to establish a network of Timy connected by the RS 485 interface (one for start, one for intermediate time, one for finish). Further it has up to 9 input channels, which means that you can make e.g. tests with a start-, up to 7 intermediate-, and one finish channel.

Software:
There is a great number of programs for the Timy. The Timy is able to cover the entire spectrum for time measurement starting from a hand timer up to the main timer at a big competition.

ALGE TIMING

Timy Software

Backup:	timer to measure time of day (e.g. backup or reference timer for PC)
Stopwatch:	universal timing program that is able to time more than one run (net time/total time)
TrackTimer:	timing for events which have lanes (e.g. athletic, swimming)
LapTimer:	timing program with split and sequential time
PC-Timer:	professional timer (time of day) to work with a PC
Training Light:	universal trainings software with intermediate times and one racer on course
Training REF:	trainings software with intermediate times and more than one racer on course
Speed:	speed measurement in km/h, m/s, or mph
Commander:	terminal to control ALGE-display boards
Terminal:	terminal for judges, e.g. ski jumping, figure skating, diving, synchronized swimming
CycleStart:	start control, lap counting, and backup timing for pursuit cycling.
Windspeed:	to measure the windspeed for athletics with a connected anemometer WS2

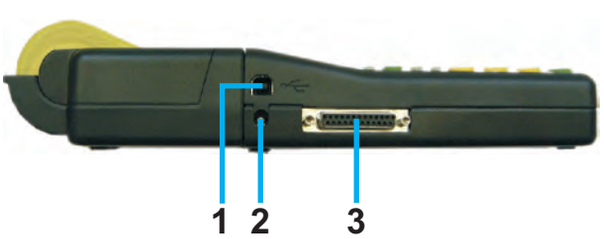
Timy XE
The Timy XE is a timer without printer. It has a temperature compensated quartz oscillator for time measurement with the highest precision and an extended temperature range for operational use down to –20°C (-4° F).

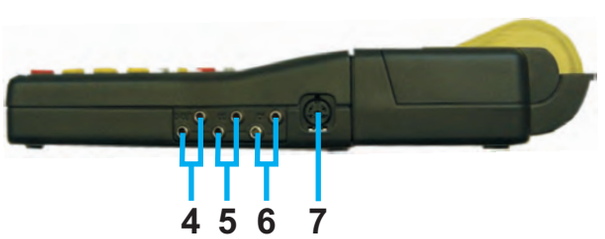
Timy PXE
The Timy PXE is a timer with integrated printer. It has a temperature compensated quartz oscillator for time measurement with the highest precision and an extended temperature range for operational use down to –20°C (-4° F).

Technical Data

Processor:	Siemens C161 with 3,3 V technology
Crystal Frequency:	12.8 MHz with TCXO
Time Resolution:	1/10,000 s
Program Memory:	FLASH Memory with 8 MBit
Data Memory:	RAM with 2 MBit (about 15,000 times)
Display:	monochrome LCD graphic display 128 x 64 pixel, extended temperature range
Keyboard:	silicon keyboard, 26 keys
Connections:	1 x DIN-socket for photocell (7) 1 x banana socket pair – start input (5) 1 x banana socket pair - finish input (6) 1 x banana socket pair – display board (4) 1 x D-Sub 25-pin (3) · 9 timing channels · RS 232 (PC-connection) · display board · RS 485 (network) · power supply (7–15 VDC in/out) 1 x USB (1) 1 x power supply (7 - 15 VDC in) (2)

Channel Extension:	per extension 8 channels, max. 99 channels
Power Supply:	**Internal:** NC-Timy: rechargeable NiCd-battery pack for Timy with printer, 1 Ah 6 x AA-Alkaline: 6 x 2 Ah or 6 x AA-NiMH: 6 x 1,5 Ah **External:** Power Supply PS12A: 12 V battery, or 7-15 VDC
Power Consumption:	data given at 20°C (68 F) Alkali: without printer about 50 hours NiMH: without printer about 38 hours NC-Timy: without printer about 25 hours Alkali and NiMH: not possible with printer NC-Timy: with printer about 3000 lines
Charging Duration:	about 14 hours
Printer:	graphic thermo printer, max. 5 lines per sec.
Temperature Range:	-20 to 60°C (-4 to 140 F)
Measurements:	Timy XE: 204 x 91 x 50 mm Timy PXE: 307 x 91 x 65 mm
Weight:	Timy XE: 450 g (no battery) Timy PXE: 650 g (no battery and paper)





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For all Times
TdC 8001

ALGE
TIMING

Racing into the Future

Timedata Computer TdC 8001

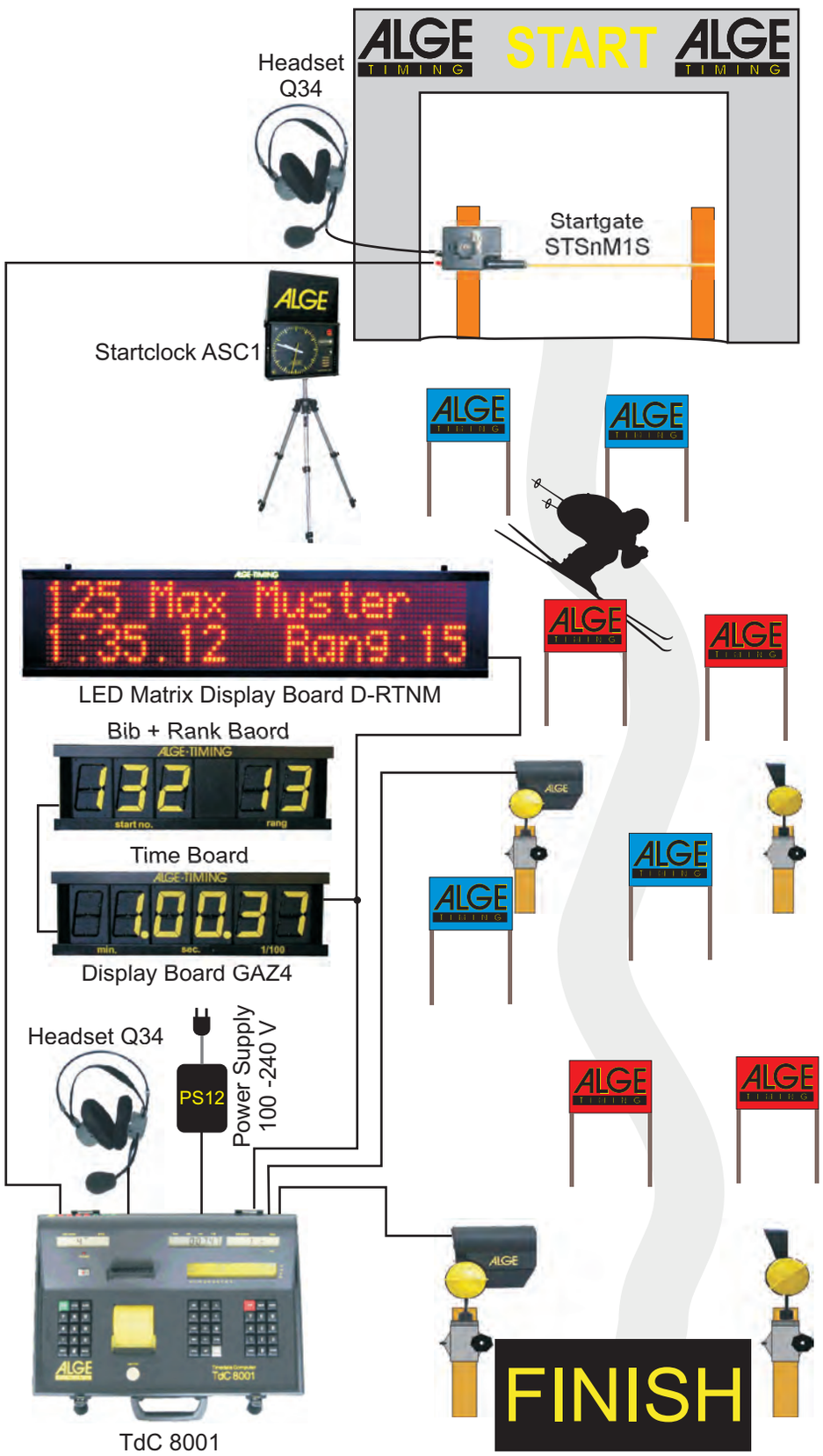
Finally, the answer to your dreams. The Timedata Computer TdC 8001 is the one of the most rugged and weather resistant printing timers ever produced. Imagine having to time a race sitting in a tent during any type of bad weather. The TdC 8001 can take it! The super accurate TCXO quartz along with hardened circuitry allows full operation from -25 °C to 50 °C (-10° F to 122° F). Specially designed LCD displays for running time and data editing are visible in all light levels and work instantly. The professional looking attache case with built in rechargeable battery pack is made of abrasion-resistant materials.

ALGE's leadership in the sports timing world is well established. The TdC 8001 is the result of constant feedback from all levels of sport. Our TdC 4000 series has now handed over the lead to a most worthy successor. Look about your venue. You never have to worry if you invest in the TdC 8001 and matching accessories.

Useful Features include:

- Built in software for all types of popular timed sports, please see insert
- Total printer control, continue timing while printing results, printer buffer active so you do not lose data while changing paper
- Memory for up to 10.000 splits with competition numbers up to 9999
- Four separate races can be run before having to clear the memory
- Multiple heats can be run within each race
- Results can be produced for up to 40 different age and sex classes racing together
- Computer interface for an easy transfer of net or reference times to custom-made or user created data bases
- Display interface for use with all types of ALGE displays or message centres, and is also ready for high speed wireless transmission
- Built-in dock with user selectable time of day

```
      ALGE TIMING
       TdC  8001
      ENG V 03.51

Program 1:  V01.72
SPLIT

Work on:
Race 1
Heat 1

Precision: 1/100 s

Timing:
DIFFERENCE

Startmode:
SINGLE START

Channels on:
0,1,2,3,4,5,6,7,8,9

Synchrontime:
   = 09:00:00

0001 ST  9:46:02.8702
     FT  9:47:21.4133
     RT     1:18.54
0002 ST  9:46:02.8618
     FT  9:47:31.2779
     RT     1:21.72

Heat 2

Precision: 1/100 s

Timing:
DIFFERENZ

Startmode:
BIBO: 15

0001 ST 10:48:16.1121
     FT 10:49:27.6383
     RT     1:11.52
0002 ST 10:48:24.7473
     FT 10:49:35.0293
       RT     1:10.28
       MT     1:21.29
       TT     2:31.57

Classement:

   ALL

      TOTAL TIME

   1.
0001 RT      1:11.52
     MT      1:18.54
     TT      2:30.06
   2.
0002 RT      1:10.28
     MT      1:21.29
     TT      2:31.57
```



ALGE TIMING

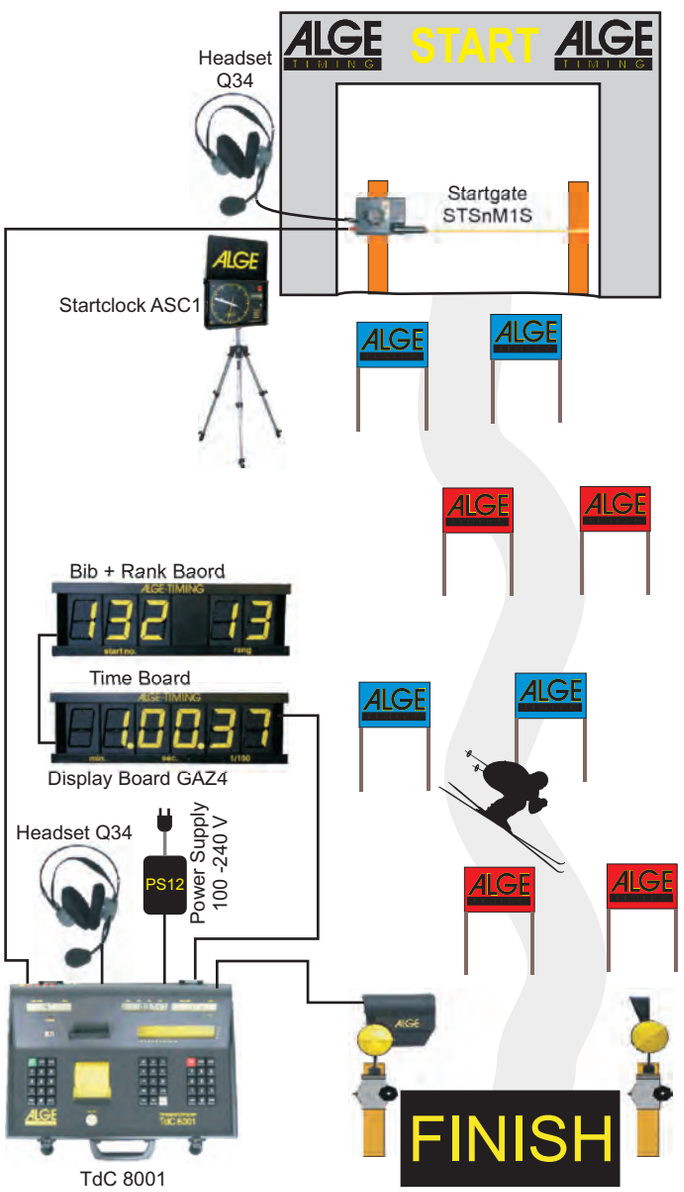
Alpine Skiing

Software of ALGE TdC 8001

SPLIT:

- Measures intermediate and run times
- Start channel, 8 intermediate channels, finish channel
- Selectable calculated precision from 1/1000 up to 1 sec.
- Up to 256 heats (runs)
- Individual, group or mass start
- Time of day or absolute timing
- Up to 9999 competitors on course at once
- Multiple result possibilities including: 1st, 2nd run, total time, with or without FIS race points, team results, top 10, DNFs, etc

Recommended for: Alpine skiing, snowboarding, cross country skiing, road and mountain bike cycling, biathlon, etc.



PARALLEL SLALOM

Parallel Slalom with finishing difference only:

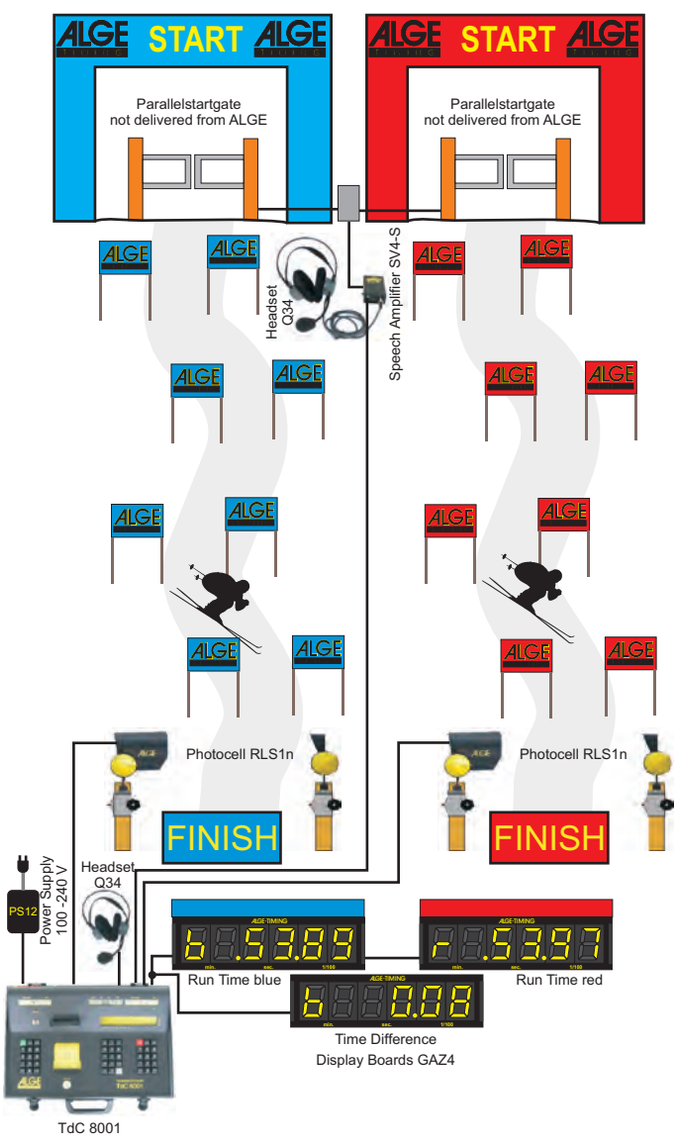
- Red and Blue course identification
- Time difference between both courses

Recommended for: Alpine Skiing and Snowboarding

Parallel Slalom with net time and difference time:

- Simultaneous start for both courses
- Run time for both courses
- Time difference between both courses
- Red and blue course identification
- Total time after switching course
- Total time difference after switching course

Recommended for: alpine skiing, snowboarding, dual mountainbike slalom, pursuit track cycling, etc.



Software of ALGE TdC 8001

EQUESTRIAN:

Includes software for all FEI showjumping events:
- Standard show jumping (Table C)
- Standard show jumping with two runs
- Time jumping (Table C)
- Competition in two phases
- American jump-off
- Standard jumping (Table A) and time jumping (Table C)
- Team jumping
- Carriage driving
- etc.

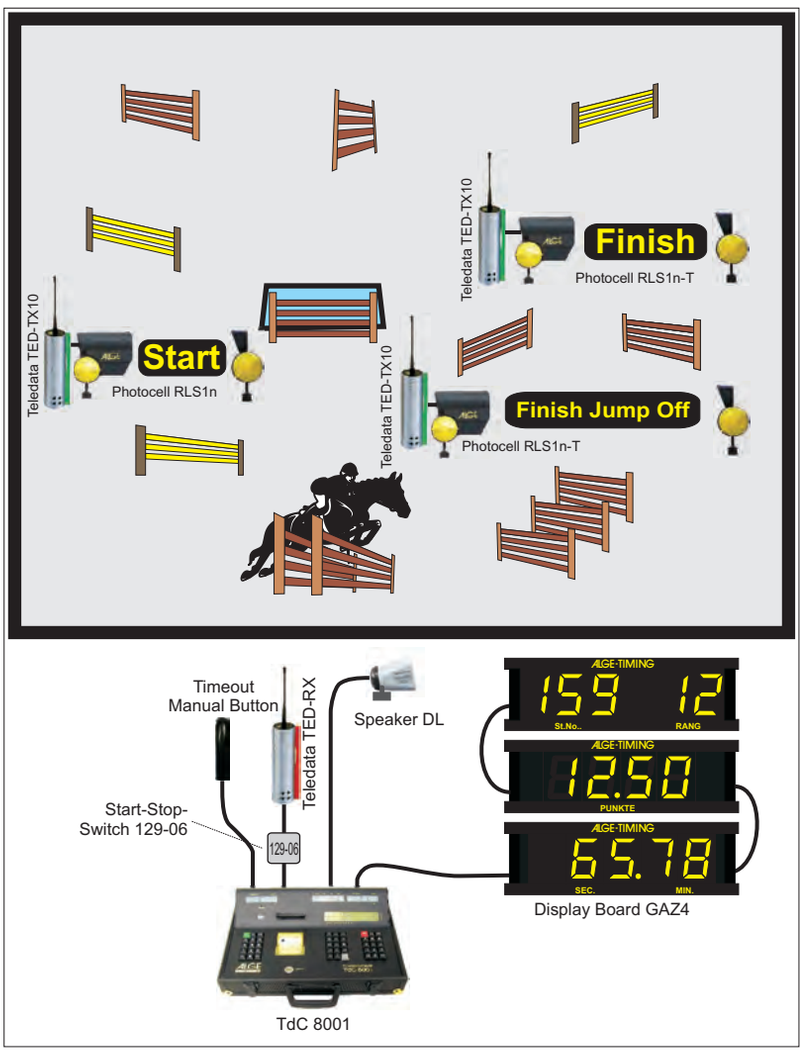
Printout of a standard show jumping (Table C)

```
0016 CD   11:31:38.1200
     CD         13.98
0016 ST   11:32:09.1346
     P     + 4.00
     CD   11:32:41.2150
     TO         32.08
     PTO      + 6.00
     CD   11:32:50.1876
     P     + 4.00
     FT   11:33:14.8536
     RT         56.74
     ----------------
0016 PTO        6.00
     PTM   2.00
     PP    8.00
     ----------------
     RTT        62.74
     TP   10.00
========================
```

Countdown Start
Start 13.98 of Countdown
Start time (Time of Day)
4 Penalty Points
Timeout Start
Timeout Run Time
6 Penalty Seconds
Timeout End
4 Penalty Points
Finish Time (Time of Day)
Run Time

Penalty Seconds
Penalty Points for Time
Penalty Points on Course

Total Run Time
Total Penalty Points



DOG AGILITY:

The software includes the following software for agility
- Dog Agilitiy
- Gambler

Recommended for: Dog Agility

SPLIT SEQUENTIAL

- Measures intermediate and run times with lap splits
- Start channel, 8 intermediate channels, finish channel
- Selectable calculated precision from 1/1000 up to 1 sec.
- Up to 256 heats (runs)
- Individual, group, or mass start
- Time of day, or absolute timing
- Up to 9999 competitors on course at once
- Multiple results possibilities including: 1st, 2nd run, total time, with or without FIS race points, team results, top 10, DNFs, etc

Recommended for: Cross country ski relay, biathlon relay, motorsport, etc.

10-Channel-Timer:

- Measures intermediate and run times
- Start channel, 8 intermediate channels, finish channel
- Selectable calculated precision from 1/1000 up to 1 sec.
- Up to 256 heats (runs)
- Individual, group or mass start
- Time of day or absolute timing
- Up to 9999 competitors on course at once
- Up to 9 identified lanes for finish input
- Memory for times and easy input of arrival order
- Multiple result possibilities

Recommended for: Marathon, triathlon, duathlon, 10k run, athletics, training

DUAL TIMER:

- Timing of two courses simultaneously
- Measuring of intermediate and run times
- Calculation of total time after reversal of courses
- Separate or combined start
- Only one racer on each course
- Selectable calculated precision from 1/1000 up to 1 sec.
- Results for each course individual or combined

Recommended for: Alpine Skiing, Snowboarding, Dual Mountainbike Slalom, Pursuit Track Cycling, Kilometer Time Trial, Olympic Sprint, etc.

SPEED:

- Adjustable measuring distance between 1 and 9999 Meter
- Display and printout in km/h, m/s, and mph
- Bi-directional trap

Recommended for: any speed measuring requirement

SPEED SKIING:

- Fixed 100 m trap length
- Display and printout in km/h only
- Display and printout of start, finish, and run time
- Multiple results possibilities

Recommended for: Speed skiing, speed mountainbiking

SPEED SKATING:

- Automatic lane change
- Shows on two display boards both competitors

CARVING:

- Countdown from the selected maximum course time
- Horn at zero
- After zero the time is counted up
- Selectable calculated precision from 1/1000 up to 1 sec.
- Individual, group or mass start
- Time of day or absolute timing

·STREET CYCLING:

- Measures the winning time
- Calculation of the average speed of the winner
- Shows the time difference between winner and others

Technical Data

Measuring range:
23 hours, 59 minutes, 59.9999 seconds

Crystal frequency:
TCXO 11.520 MHz (Temperature Compensated Crystal Oscillator)

Accuracy:
temperature range from -25 to +50°C: +/- 2,5 ppm (+/-0,009s/h.)
Ageing: +/- 1 ppm per year
Frequency adjustment: +/- 0,1 ppm at 25°C

Temperature Operative Timing Range: -25 to 50°C (-10°F to 122°F)

Electronic:
most modern energy-saving C-MOS technology with 80C167 microprocessor

Memory:'
about 2 x 10,000 times with start numbers, keeps data when switched off by internal rechargeable battery

Display:
start display (1): numeric liquid crystal display, 8 digits, figure height 12.7mm
finish display (5): numeric liquid crystal display, 8 digits, figure height 12.7mm
finish display (6): numeric liquid crystal display, 8 digits, figure height 12.7mm
info-display (7): alphanumeric liquid crystal display, 4 x 40 characters, figure height 4.8 mm

Printer:
Thermoprinter (matrix) with a max. speed of 6 lines per second

Operating elements:
On-/Off-switch (g), start keyboard (12) with 15 keys, function keyboard (9) with 15 keys, finish keyboard (8) with 15 keys

Power Supply:
internal: NiCd rechargeable battery 7.2 V / 4.5 A
external: 230 VAC (alternative 115 VAC) with charger

Power Consumption:
no external devices from the internal NiCd battery: about 80 mA
when printing: about 500 mA

Charging Supply:
+11 to 16 VDC

Impulse Length:
Input resistance 10 kΩ against +5V, Triggering with < 1V (falling flank) Hysteresis about 2V

Output 5VDC stabilized:
total max. of 120 mA

Interfaces:
RS 232c Interface for PC
RS 232c Interface for Display Boards
RS 485 Interface

Loudspeaker output:
for 8Ω speaker, U = 24 Vpp

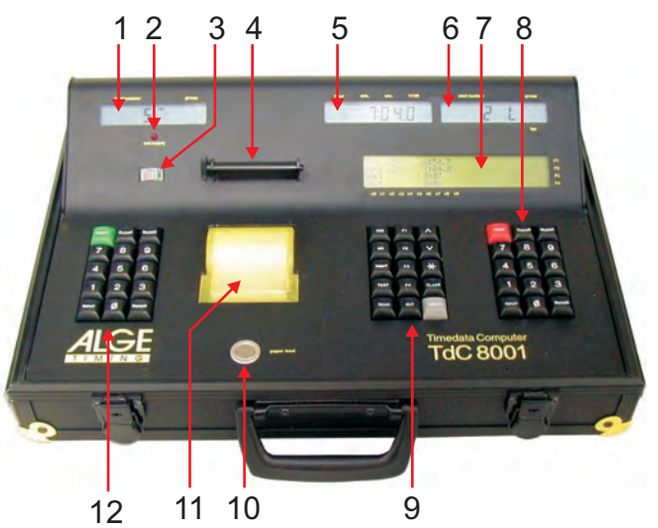
Casing: case with key to lock, removable cover

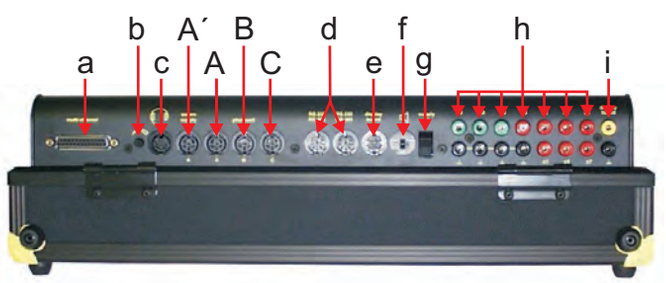
Dimensions: 450 x 320 x 150 mm / 17.8 x 12.6 x 6 inches

Weight: 7.5 kg / 16 lb.

Operation Elements and Connectors

1.....Start-Display
2.....External supply LED status light
3.....Meter to monitor power supply and photocell
4.....Paper-Roller
5.....Display that shows the running time
6.....Display that shows the start number for the finish
7.....Info-display 4 x 40 alphanumeric characters
8.....Finish keyboard
9 .....Function keyboard
10.....Paper feed button
11 .....Printer cover and paper-tray
12.....Start keyboard
a.....Connection for Multi Channel
b.....Volume for headset
c.....Jack for the headset
A´/A.....DIN-jack for photocell and supply (identical)
B .....DIN-jack for photocell and supply (different channels)
C .....DIN-jack for photocell and supply (different channels)
d.....Identical DIN-jacks with RS232 and Rs485
e.....DIN-jack to connect a display board
f.....DIN-jack to connect a speaker
g.....On / Off - switch
h.....Banana socket for all 10 timing channels
i.....Banana socket for display baord





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TIMER S4

ALGE
TIMING

The universal Genius TIMER S4

Simple as always, rugged as used!

The Timer S4 is very popular because of the simple operation (e.g. if different people have to work with it). Professionals like the S4 since it has many impulse channels and a RS232c interface to communicate with a PC.

- 3 independent clocks can be accessed for either 3 independent courses, or 3 individual competitors
- 18 channel timing device
- Memory for 8000 times with continues numbers and channel identification
- Individual adjustable delay time for start and finish impulse channels
- Built in speech amplifier for speech connection between start and finish by headset using the 2 wire impulse cable
- Output to control ALGE display boards
- Output to connect a printer (e.g. Printer P5)
- RS232c interface to communicate with a results PC
- Big LCD-display with a figure height of 13 mm
- Independent operation from mains possible through built in battery (Alkaline or rechargeable battery)
- Adjustable precision (1/10, 1/100, or 1/1000

Accessorie:

We can offer a lot of accessory for the Timer S4.

- Power Supply PS12
- Printer P5
- MultiChannel MC18
- Startgates
- Photocells
- Push Button
- Display Boards
- Headsets
- Teledata TED
- Carring Case for transport
- usw.

The Timer S4 has a big variety of programs to use it universal:

Split:
Net timing with a maximum of 3 competitors on course.

Sequential:
Lap timing with a maximum of 3 competitors on course.

Parallel Slalom:
Program for time difference or time difference and run times.

3-Parcours-Timer:
Start and finish time for 3 independent courses.

18-channel timer with net time:
Universal timing program designed for on line use with a PC. Allows the recording of a start for individual or mass events, intermediates, and finish, all with channel identification, continuous ID-number, and net time.

18-channel timer with time of day and net time:
Enhanced version of the program listed above with the addition of time of day reference time for every time split recorded. Also allows the use of Split and Sequential or Time our features.

18-channel timer with time of day and countdown:
Enhanced version of the program listed above with the replacement of net timing with countdown capability. Also allows the ability to use timeout feature.

Automatic:
Ideal training program allows the user to select the number of timing points that will be received, displayed, and reset without the need for an operator.

Equestrian Show Jumping:
Universal program for most national and international formats handling timing and point calculation.

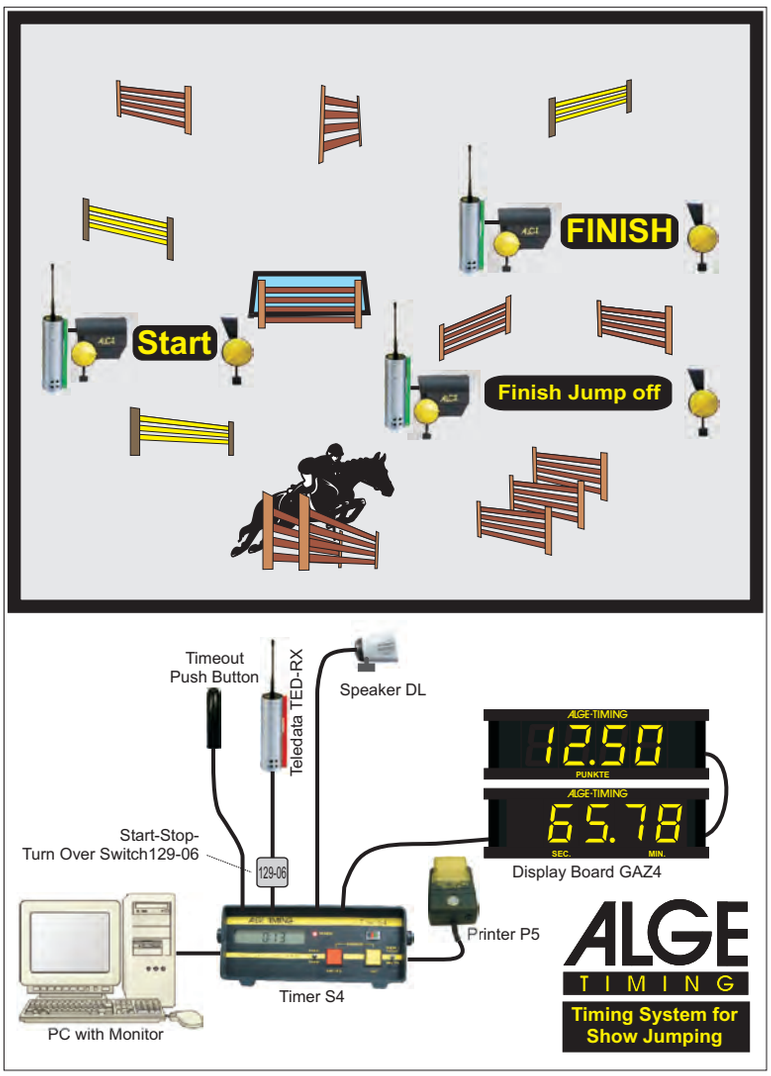
Agility:
Universal program for most national and international formats handling timing and point calculation.

Swimming:
For pools with up to 8 lanes. Allows the recording of full and half lap splits. Cost effective alternative for clubs, schools and facilities.

Speed:
Speed measurement in km/h, m/s or mph. Allows the input of measuring distance form 1 to 180 m.

ALGE TIMING

Timer S4 - the Timing and Display System for Equestrian



Some Facts About the Timer S4 for Show Jumping:

- Contains all popular domestic and international programs for jumping
- Adjustable countdown with horn
- Push button controlled timeout
- Horn sounds at the end of countdown, beginning and end of timeout
- Adjustible input of penalty time
- Adjustable input for rail drop penalty points
- Easy reset of false finishes
- Automatic time penalty point calculation for exceeding the optimum time
- Printout of total time of total time from clear round time and penalty time
- Printout of total points (rail drop plus time penalty points)
- Easy operation with two buttons
- All necessary accessories available

Programs fort he following are available:

- Standard show jumping (Bareme A)
- Jump-off for standard show jumping
- Standard show jumping with stage (Bareme B)
- Standard show jumping with jump-off
- Show jumping with time penalty (Bareme C)
- Two stage show jumping (Bareme A Barrage Integre)
- Standard show jumping with American jump-off

Hard Coppy Printout Sample of ALGE-Printer P5

TMPL 055 sec.	Preselected time limit (allowed time)
CD 45 sec.	Preselected countdown time (pre-start)

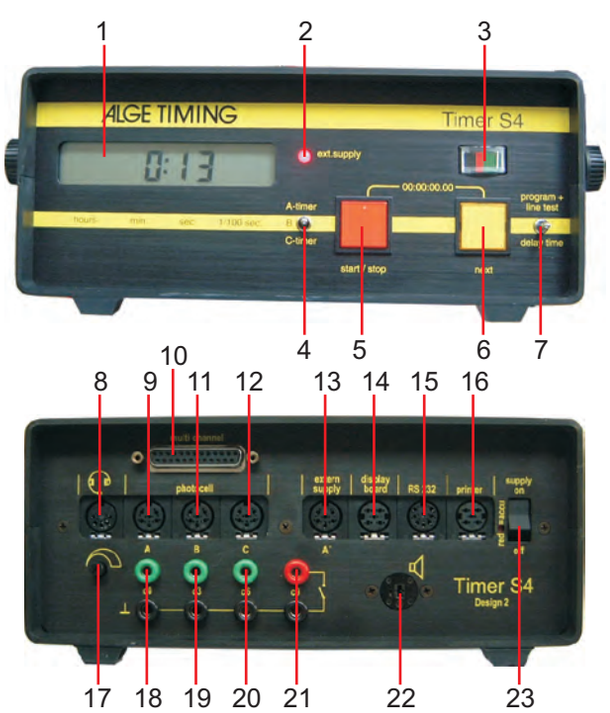
CD 21 sec.	Start 21 seconds before expiration of countdown
TO 17.92	Timeout after 17.92 seconds
PS 6 sec.	Penalty time of 6 seconds
PP 4.00	4 penalty points for barrier drop
TO 45.83	Timeout after 45.83 seconds
PS 8 sec.	Penalty time of 8 seconds
TN 55.35	Clear round time (without penalty time / penalty seconds)
PP TM 0.25	Time penalty points for exceeding of time limit
PP 4.25	Penalty points (exceeding of time and barrier drop)

TT 69.35	Total time (clear round time and penalty time)
PP TM *03.75*	Time penalty points from total time
PP *07.76*	Total penalty points (total time and barrier drop)

ALGE
TIMING

Technical Data

Measuring Range:	23 hours 59 minutes, 59.999 seconds
Crystal Frequency:	TCXO 9.216 MHz (temperature compensated quartz oscillator)
Accuracy:	Within -30°C to +75°C: - 2.5 ppm (+/-0,009 seconds per hour) Ageing: +/- 1 ppm per year Frequency adjustment: +/- 0,1 ppm at +25°C
Operative Temperature Range:	-25 to 50°C
Memory:	8000 times with continues ID number and channel identification
Display:	LCD numeric display with 8 characters, figure height 12.7 mm
Electronic:	CMOS-Technology
Power Consumption:	without external devices from internal battery about 60 mA
Impulse Input Channels:	18 impulse input channels input resistance 10 kΩ against +5V triggered with < 1V (down trigger) Hysterese about 2 V
Output Channels:	5VDC stabilized, total maximum 120 mA
Speech Amplifier:	Communication possible with channel CO, C1, C2, C3, C6 and C9
Speaker Output:	for 8 Ω speaker, U_{max} = 24 V_{pp}
Operation Elements:	1 on/off switch (23) 1 push button "start/stop" red (5) 1 push button "next" yellow (6) 1 toggle switch (A-, B- and C-timer) (4) 1 toggle switch (program, line test, delay time) (7)
Casing:	black anodised aluminium case with built in battery box, handle for caring and countertop height adjustment W x H x D = 226 x 95 x 162 mm
Weight:	2.2 kg (including batteries)



1. . . . . Display, 8 numerical digit
2. . . . . LED lamp for external power supply
3. . . . . Meter to show battery power and photocell condition
4. . . . . Toggle switch with 3 positions
5. . . . . Start/Stop-Button
6. . . . . Next-Button
7. . . . . Toggle switch with 3 positions
8. . . . . DIN-socket for headset
9. . . . . DIN-socket A (e.g. for photocell)
10. . . . . Socket D-Sub 25 pin with all 18 channels
11. . . . . DIN-socket B
12. . . . . DIN-socket C
13. . . . . DIN-socket A´
14. . . . . DIN-socket for display board
15. . . . . DIN-socket RS 232c (e.g. for PC)
16. . . . . DIN-socket for external printer
17. . . . . Volume for headset
18. . . . . Input channel c0 (Start)
19. . . . . Input channel c3
20. . . . . Input channel c6
21. . . . . Input channel c9
22. . . . . DIN-socket for external speaker
23. . . . . on/off switch

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Selftimer SF3

Self Service Timing System for Recreational Race Courses, Carving Courses and/or Speed Measurement

Let the ALGE SELFTIMER SF3 work for you!

ALGE TIMING

Components of the System

Selftimer Startlight SF3L
The SF3L is located at the start and controls the flow of the participant's starts. A green light indicates the course is clear for a start at any time. The red light comes on after someone has started and stays on until the course is clear (once the previous racer has finished the run, or after a maximum run time and the display has reset).

Selftimer Coin Collector SFP3P
The SFP3P is located at the start and includes a built-in coin collector which accepts either tokens or your local currency. The rugged and secure enclosure includes a lock that allows only the operator to collect the coins. Two lights (red and green) regulate when to insert coins, and two more lights (red and green) control when to start and when to wait.

Startgate STSnA1
The STSnA1 is used to trigger the start. This single-output, automatic-return start gate includes a mounting chain for quick and secure assembly to a wooden start post (4 x 4 or 2 x 4).

Photocell RLS1n
The RLS1n is a reflex photocell (transmitter/receiver module and reflector) that is used to trigger the finish and/or speed measurements. It includes an integrated universal ball adjustment for quick and accurate alignment to the reflector, and mounting chains to quickly and securely fasten the photocell and reflector to wooden posts (4 x 4 or 2 x 4). A sliding hood protects the photocell's lens from direct moisture potentially caused by snow and rain.

Display Board D-SF150-O-6-E0 or D-SF250-O-6-E0
6-digit red LED numeric displays are available with 15cm high characters (D-SF150) or 25cm high characters (D-SF250). Extra-bright LEDs are readable even in direct sunlight. The internal logic controls all activities of the system (including minimum and maximum run time and duration of the finish time before resuming the running time of the next racer) and can show time or alternating time and speed. The display can also be used with a timing device or PC for organized competitions.

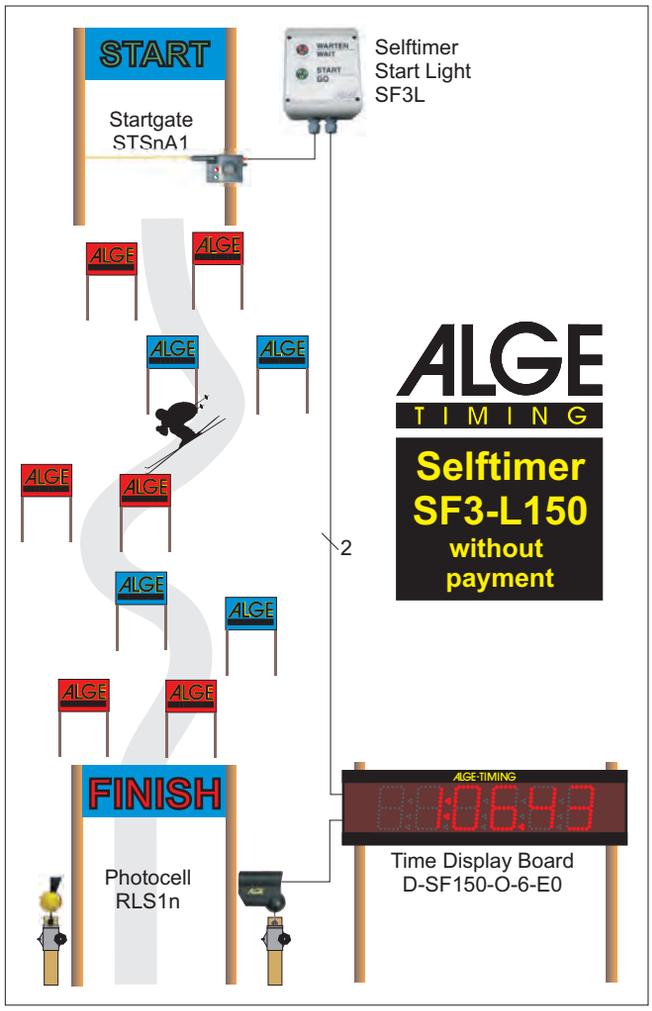
Display Board D-LINE150-O-6-E0 or D-LINE250-O-6-E0
These are similar to the above and used as an additional display (optional) to show speed while the D-SF150 or D-SF250 shows running time and finish time. This additional display can also show the time for the participant waiting at the start.

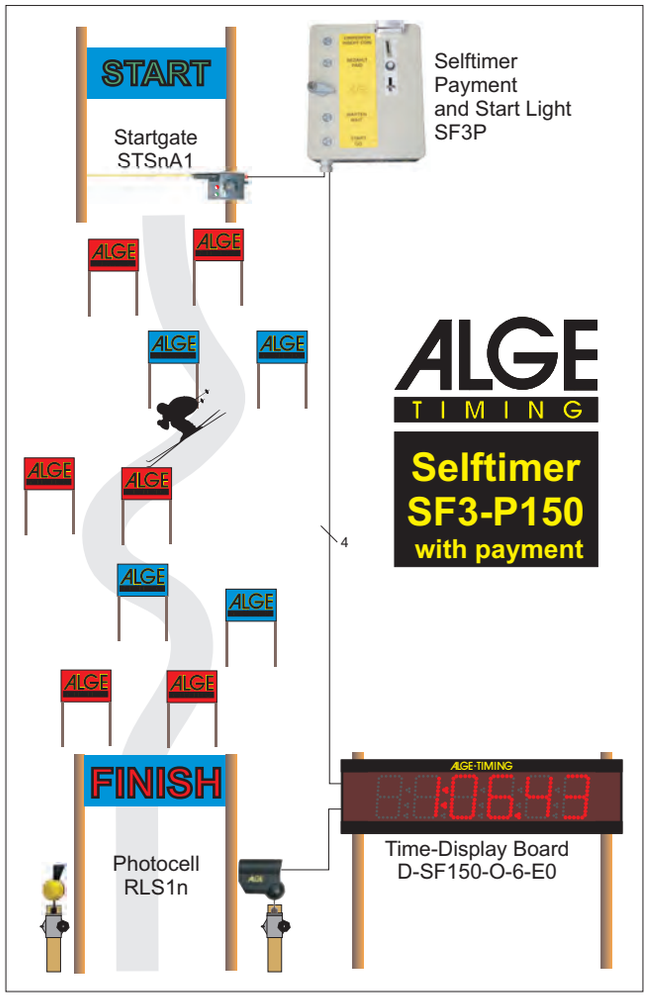
Cable and Power requirements

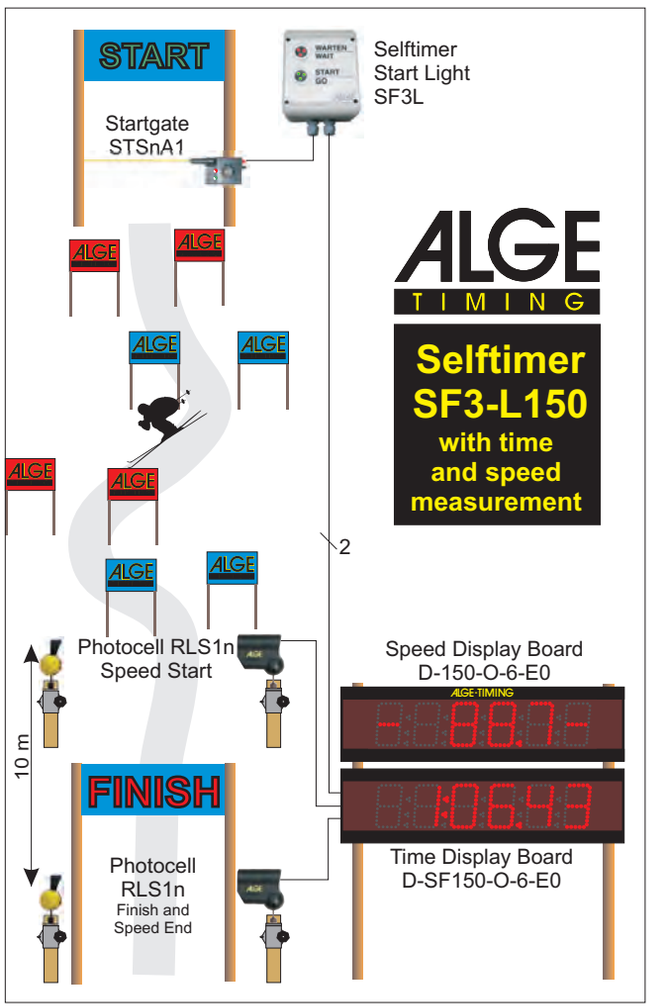
Selftimer system with Startlight SF3L:
Single pair (2-conductor) 18-22 AWG cable between start and finish; main power to display board at the finish from either and external 12 VDC or directly from a 100-240 VAC source.

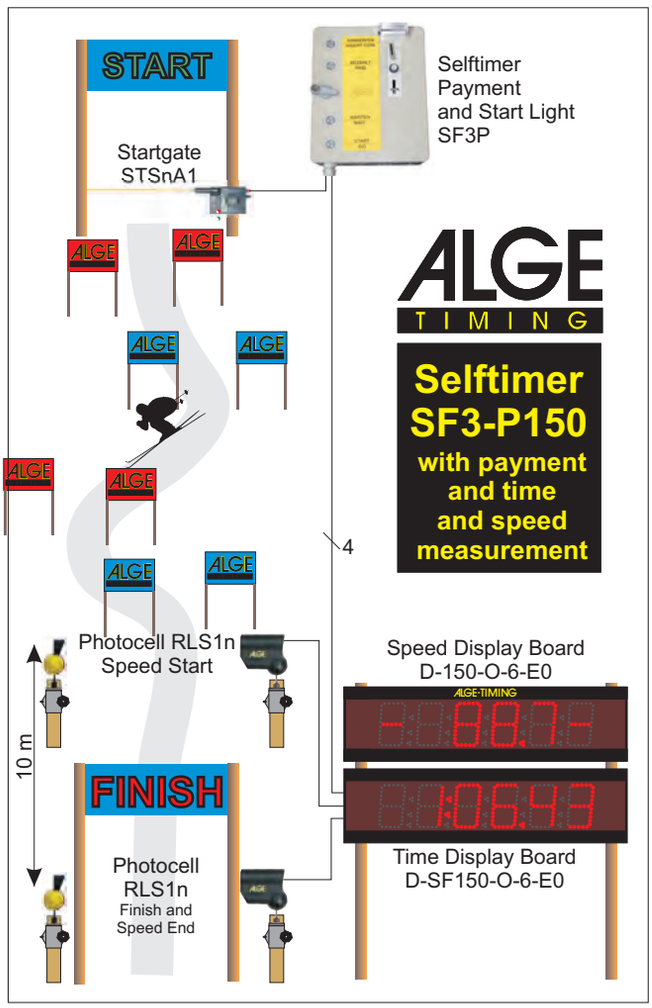
Selftimer system with Coin Collector SF3P:
2-pair (4-conductor) 18-22 AWG cable between start and finish; main power to display board at the finish from either an external 12 VDC or directly from a 100-240 VAC source.

ALGE
TIMING


START
Startgate
STSnA1
Selftimer
Start Light
SF3L
ALGE
TIMING
Selftimer
SF3-L150
without
payment
2
FINISH
Photocell
RLS1n
Time Display Board
D-SF150-O-6-E0


START
Startgate
STSnA1
Selftimer
Payment
and Start Light
SF3P
ALGE
TIMING
Selftimer
SF3-P150
with payment
4
FINISH
Photocell
RLS1n
Time-Display Board
D-SF150-O-6-E0


START
Startgate
STSnA1
Selftimer
Start Light
SF3L
ALGE
TIMING
Selftimer
SF3-L150
with time
and speed
measurement
2
Photocell RLS1n
Speed Start
10 m
FINISH
Photocell
RLS1n
Finish and
Speed End
Speed Display Board
D-150-O-6-E0
Time Display Board
D-SF150-O-6-E0


START
Startgate
STSnA1
Selftimer
Payment
and Start Light
SF3P
ALGE
TIMING
Selftimer
SF3-P150
with payment
and time
and speed
measurement
4
Photocell RLS1n
Speed Start
10 m
FINISH
Photocell
RLS1n
Finish and
Speed End
Speed Display Board
D-150-O-6-E0
Time Display Board
D-SF150-O-6-E0

Selftimer SF3-System without Coins

Selftimer SF3-L150:
The Selftimer makes time measurement with a startgate and finish photocells. It shows the time on LED display board with 6 figures (figure height = 15 cm / 5.9”). A start light (red or green) organizes the start.

Selftimer SF3-L250:
The Selftimer makes time measurement with a startgate and finish photocells. It shows the time on LED display board with 6 figures (figure height = 25 cm / 9.8”). A start light (red or green) organizes the start.

Selftimer SF3-2L150:
Same as SF3-L150 but with a 2nd photocell for speed measurement. It shows the time and speed on the display board alternating.

Selftimer SF3-2L250:
Same as SF3-L250 but with a 2nd photocell for speed measurement. It shows the time and speed on the display board alternating.

Selftimer SF3-22L150:
Same as SF3-L150 but with a 2nd photocell for speed measurement and a 2nd display board to show the speed.

Selftimer SF3-22L250:
Same as SF3-L250 but with a 2nd photocell for speed measurement and a 2nd display board to show the speed.

Selftimer SF3-System with Payment

Selftimer SF3-P150:
The Selftimer makes time measurement with a startgate and finish photocells. It shows the time on LED display board with 6 figures (figure height = 15 cm / 5.9”). At the start is a coin collector for payment with integrated start light (red and green) and payment light (red and green).

Selftimer SF3-P250:
The Selftimer makes time measurement with a startgate and finish photocells. It shows the time on LED display board with 6 figures (figure height = 25 cm / 9.8”). At the start is a coin collector for payment with integrated start light (red and green) and payment light (red and green).

Selftimer SF3-2P150:
Same as SF3-L150 but with a 2nd photocell for speed measurement. It shows the time and speed on the display board alternating.

Selftimer SF3-2P250:
Same as SF3-L250 but with a 2nd photocell for speed measurement. It shows the time and speed on the display board alternating.

Selftimer SF3-22P150:
Same as SF3-L150 but with a 2nd photocell for speed measurement and a 2nd display board to show the speed.

Selftimer SF3-22P250:
Same as SF3-L250 but with a 2nd photocell for speed measurement and a 2nd display board to show the speed.

Technical Data

Power Supply:
Mains connected to display board with 100 - 240 VAC/ or 12VDC.

Power Consumption:
max. 20 Watt for SF3-L150 or SF3-P150
max. 45 Watt for SF3-L250 or SF3-P250

Operating Temperature: -30°C to +40°C

Time Resolution: 1/100 seconds

Run Times: 0 to 24 hours

Time Selection:
It is possible to adjust the minimum and maximum time allowed for a runner.

Connection Cable:
Between start and finish a two- core cable is necessary. The maximum loop resistance is 130 Ohm (is about 1000 m ALGE field telephone cable).

Installation:
All cables between the different parts are included and have plugs that do not allow wrong plugging. An electric-expert is not necessary. The cable between start and finish must be provided by the operator, as well as mains for the display board.

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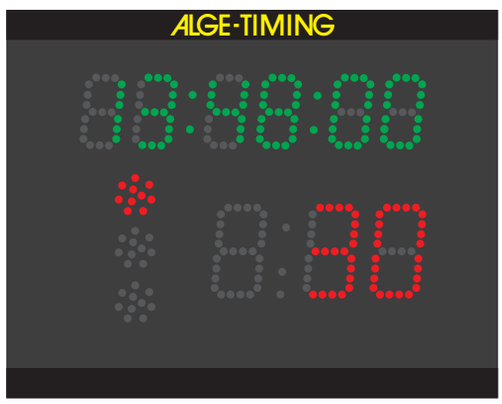
ALGE Startclock ASC2

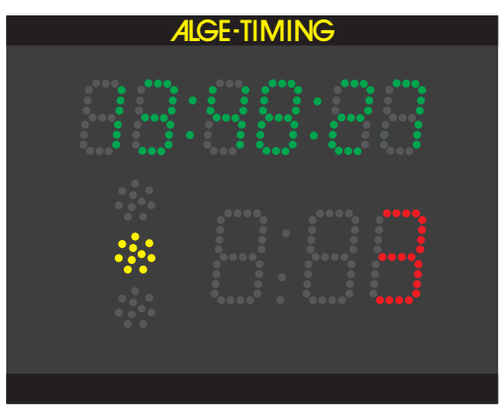
Second Generation of Startclock with LED-Technology

The big advantages of the Startclock ASC2:

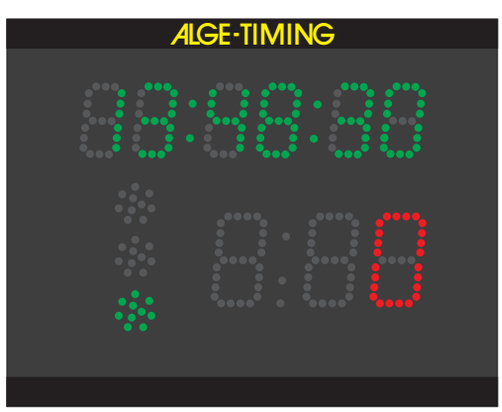
- No mechanical clock
- Big, digital display with countdown time
- Countdown light with red, yellow and green
- Universal software - flexible for the future



red interval - start is closed



yellow interval - get ready for start



green interval - start free!

Facts about the Startclock ASC2:

- LED technology
- Shows the time of day (hours, min. and sec.), green LED
- Figure height of time of day digits is 5.5 cm
- Shows the countdown with three digit in minutes and seconds, red LED
- Figure height of countdown digits is 7 cm
- Start light with red, yellow and green
- Integrated speaker with volume regulation
- RS232 interface to connect a PC or printer
- Adjustment of ASC2 parameters possible from PC
- Integrated lead battery that runs the ASC2 for about 7 hours at 20°
- Two integrated push buttons for adjustments
- Start input (banana socket)
- Sync. Input or countdown start (banana socket)
- potential free impulse output (banana socket)
- Output for external speaker
- Power supply (12 VDC or 100-240 VAC)

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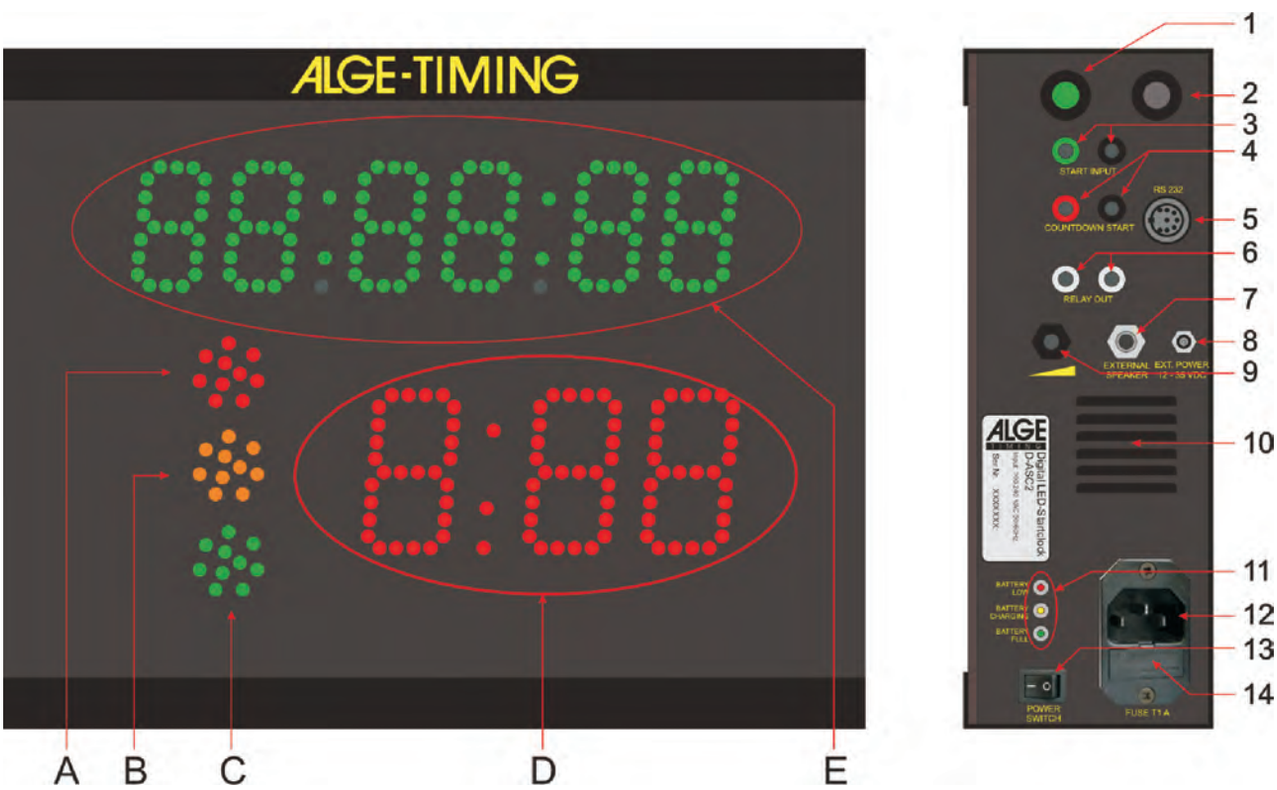
Technical Data

Unit of Measurement:	1/1000 seconds
Measuring Range:	23 hours, 59 minutes, 59.999 seconds
Accuracy:	+/- 2.5 ppm (+/- 0,009 second per hour)* between –20°C and +30°C (-4°F and 90° F)
Time Base:	temperature compensated real time clock
Display:	extra bright LED for outdoor use, birghtness adjustable 8-digit LED-display, figure height 55 mm (2.16”), to show time of day 3-digit LED-display, figure height 70 mm (2.75”), to show the countdown start light with 3 LED-clusters in red, yellow and green, each 30 mm (1.18”) diameter
Temperature Range:	-25°C to +65°C (-13 F to 149 F)
Power Supply:	built-in powerpack (rechargeable battery (12 VDC, 7 Ah) and charger or external battery (12 - 35 VDC) or mains (100 - 240 VAC)
Autonomy:	about 7 hours with one countdown pro minute at 20°C in standard mode from internal battery
Housing:	**a**nodized aluminium with cover and suspension flaps, 3/8" thread for tripod (tripod not included)
Dimensions:	W x H x D = 380 x 300 x 110 mm (14.96" 11.81" x 4.33")
Weight:	6.4 kg (14.1 lbs.)



A .....Red start light
B .....Yellow start light
C .....Green start light
D .....Countdown clock with adjustable start intervals
E .....Time of day clock with hours, minutes and seconds

1 .....Green push button
2 .....Black push button
3 .....Start input (e.g. startgate for skiing)
4 .....Connector for start interval adjustment
5 .....RS232 interface
6 .....Start output
7 .....Socket to connect an external speaker
8 .....External power connection (12 - 35 VDC)
9 .....Volume for speaker
10 .....Countdown speaker
11 .....Battery condition and charging LEDs
12 .....Mains connector (100-240VAC)
13 .....On / Off switch
14 .....Fuse 1.0 A for power supply

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ALGE-STARTBEEP STB1

...a small device with a kick

Microprocessor controlled acoustical starting command transmitter, universal, low in price, rugged and handy:

- 9 programmed start intervals
- selectable with a multiple contact switch (10 / 15 / 20 / 30 / 40 / 45 / 60 / 90 / 150 seconds)
- 2 freely programmable start intervals between 6 sec. and 99 min. 59 sec., selectable by a multip contact switch
- Countdown triggering also by internal or externa key.
- Countdown triggering with or without standby signal (10 sec. before start)
- With the operation mode “Hupe” (horn) the startbeep can be used as a substitute for the startpistol. Triggering by internal or external key.
- Synchronizable with other timing devices
- Start output, potential-free closed contact (i.e. fo triggering a timing device)

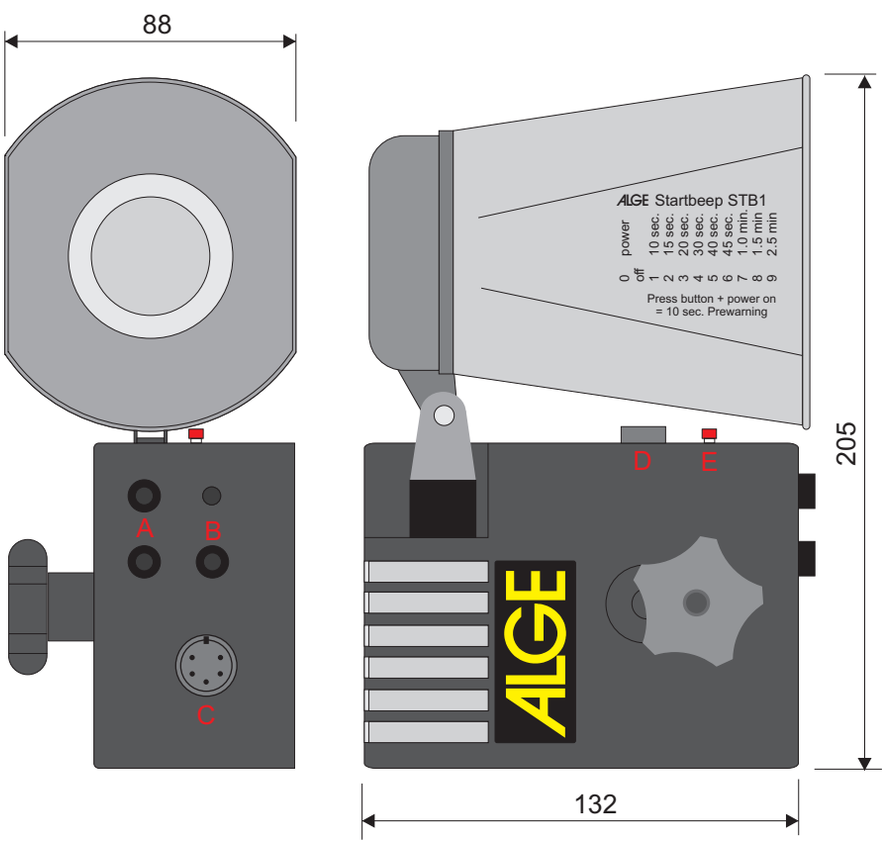
ALGE TIMING

Technical Data

Electronics:	µP-controlled in CMOS technique
Quartz frequency:	4,608 Mhz
Operation temperature:	-25 until + 45°C
Powersupply:	9V alkaline battery (alternatively 9V NiCd-accu) or external 12V-battery
Connections:	A = potentialfree closed contact for synchronous triggering(starting) of a timing device B = external key C = external supply D = On/Off function E = internal key
Echo transducer:	horn loudspeaker, rotatable
Housing:	Polyamid, glass fortified
	(Impact strength)
Fastening:	chain fastening for mounting on
	a stick etc.
Weight:	1 kg
Dimensions:	132 x 205 x 88 mm

Operation time with alkaline battery at 30 sec. Start interval:

Without warning signal:	80 hours
With warning signal:	10 hours



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Startmicrophone SM8
Speech Amplifier SV4-SM
Headset Q34

The Startmicrophone SM8 is used for all sports that are started with a start gun (e.g. athletics, triathlon, cycling, swimming, speed skating, short track, cross country).

The start shot of the gun triggers an electric impulse in the Startmicrophone. This electric impulse triggers the timing device. The Startmicrophone can be screwed onto the start gun.

If you connect the Startmicrophone with the speech amplifier SV4/SM, a voice communication is possible with the headsets Q34 or HS-1/D. For this voice communication you use the same two-wire cable as for the start impulse.

Headset Q34
for oudoor use
with noise protection

Speech Amplifier SV4/SM

Headset HS-1D
for indoor use
with one free ear

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Photocell RLS1n

The rugged photocell RLS1n demonstrated at many events its advanced, but well proved technology:

- reflection photocell with built-in transmitter and receiver in one case
- usable for distances between 1.5 and 25 m
- output through banana socket and DIN-socket
- internal or external power supply, complete with reflector, swivel head, fastening console and cable

Photocell RLS1nd

The photocell RLS1nd is used mainly for long distances!

- photocell with separate transmitter and receiver RLS1nd
- usable for up to more than 100 m distance
- output through banana socket and DIN-socket.
- internal or external power supply, complete with transmitter and receiver unit, swivel heads, fastening console and cable

Triple-Photocell RLS3

The Triple-Photocell consists of three photocells arranged on top of each other built into the same case.

- reach of between 2 and 15 m
- external power supply
- complete with photocell unit, mirror, tripods and 30 m cable

rEversible between the following modes:

Photocell Area: Used for athletics. Only if all three photocells are triggered at the same time an impulse is produced. This prevents that the photocell is triggered by arms or legs (only by body), and produces a quite accurate „inofficial“ winner time. This photocell is very important, when a display board is used.

Single Photocell Use: All three photocells work independently, this means the first that is triggered will produce a timing impulse.

Photocell PWR

The photocell PWR is especially designed for training. It works without reflector, this means it is triggered through reflection of the measured object.

- maximal triggering distance 2.5 m
- the triggering distance is adjustable
- very small dimensions
- complete with photocell, swivel head and 10 m cable

Photocell Adapter LA5

Ideal to connect photocells at intermediate times, when this point is far from the timing device.

- internal batteries to supply the photocell
- built in voice amplifier for voice communication to the finish
- different operation modes, e.g. to activate the photocell with a push button when there is a lot of traffic

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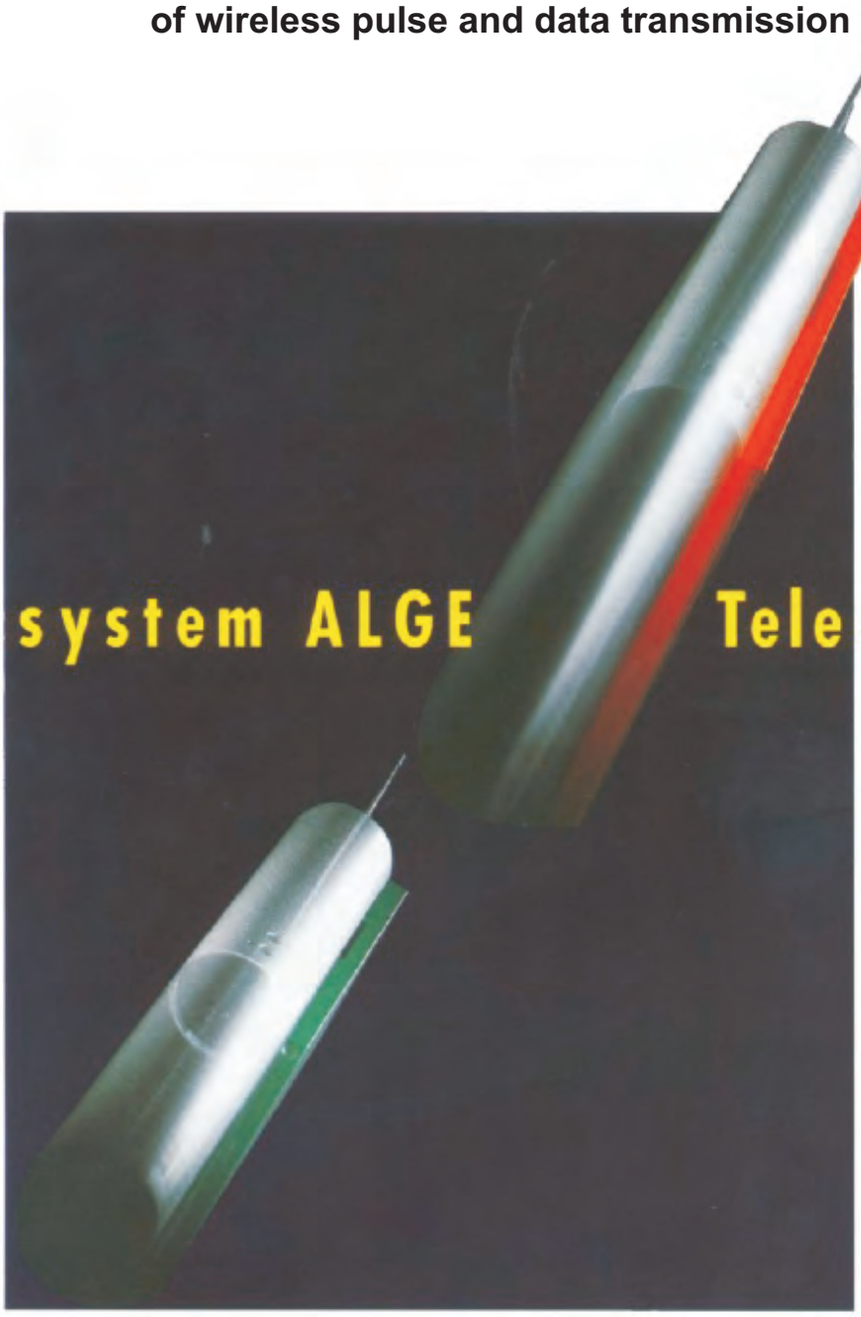
Just take off

and start with the „radio rockets“ ALGE Teledata TED
into the highest safety
of wireless pulse and data transmission



Radio system ALGE Teledata TED

ALGE
TIMING

Pulse Transmission: Save as never before

The pulses (start or stop impulses) are transformed by a wireless transmitter TED-TX into a data package, provided with a safety code and transmitted to the receiver TED-RX. After having checked the safety code, the receiver transmits the pulse to a timing device with an accurate, reproducible delay of 0.1 seconds.

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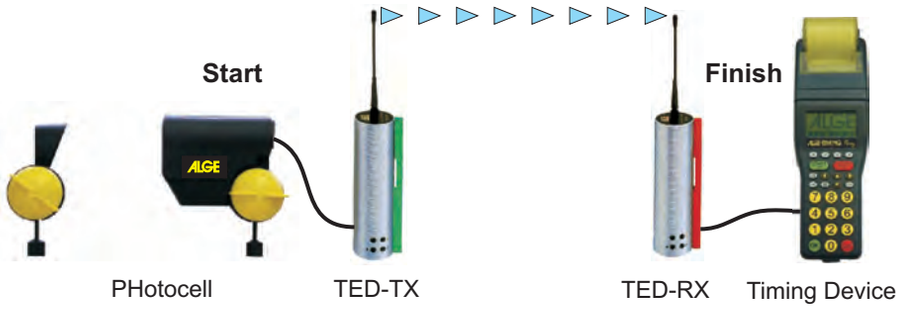
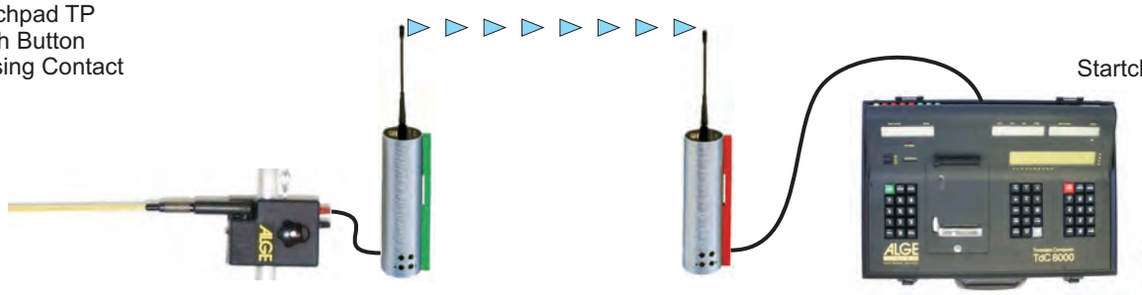


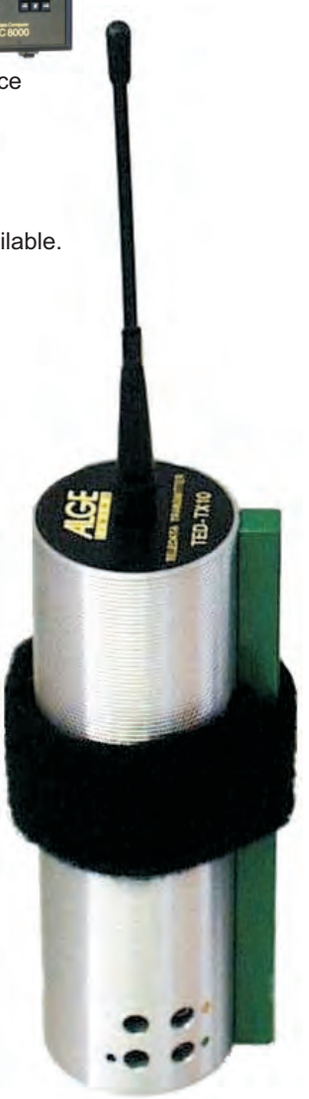
ALGE-Pulse Transmitter:
Photocell RLS1
Photocell RLS3
Startmicrophone SM8
Startclock ASC1
Startbeep STB1
Tapeswitch
Touchpad TP
Push Button
Closing Contact

ALGE-Pulse Receiver:
TdC 8001
TdC 8000
TdC 4000
TIMER S4
TIMER S3
TIMY
COMET
OPTIc
Startclock ASC1



The Standard Version:

Is able to receive 2 different timing channels. With the accessory RX-C10, up to 10 different channels are available.



The Safety Package of the New Wireless Transmitting System ALGE Teledata TED:

Protection against false pulses:
A special software in the receiver TED-RX eliminates most interferences.

A maximum of transmitting safety:
A new dimension of safety is reached due to location optimization
by means of optical and acoustic signalling (LED and loudspeaker).

Big working range:
TED-TX10: up to approximate 1,5 km
TED-TX400: up to approximate 5 km

Addressing of the system:
Up to 16 addresses can be present. One addressed system is not able to receive pulses from a system with different addressing (for example if several TED systems are used in the same area).

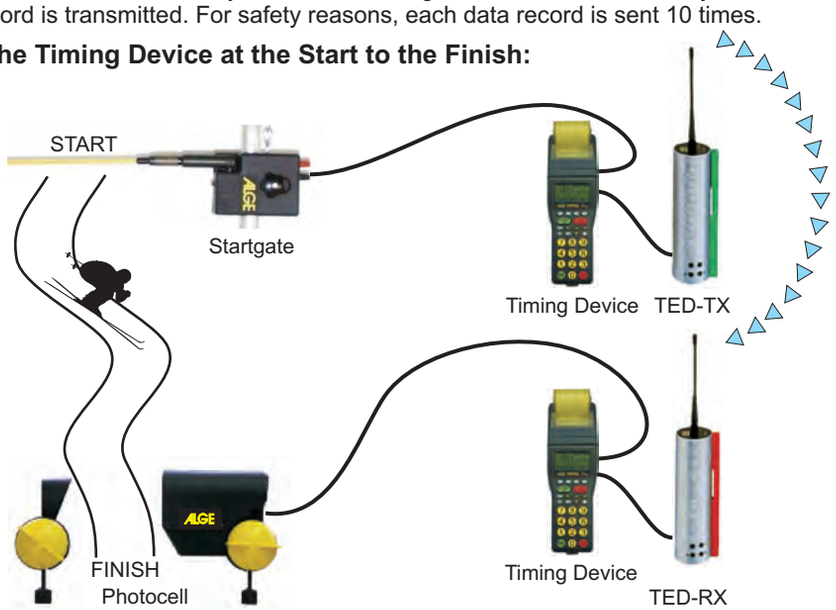
Data Transmission: With the absolute safety

In the data transmission (e.g. of the start time), the data plus the safety code are transmitted from the transmitter TED-TX to the receiver TED-RX. The receiver transmits the data package to the timing device at the finish. This system is absolutely safe since the data is transmitted as many times as needed in the event of a faulty radio circuit. Moreover, the third data record always remains stored in the transmitter TED-TX. The same applies to all start times which can be recalled at any time from the timing device at the start
.

Data Transmission / Timing:

The start time is transmitted by radio to the timing device at the finish. Every second, one data record is transmitted. For safety reasons, each data record is sent 10 times.

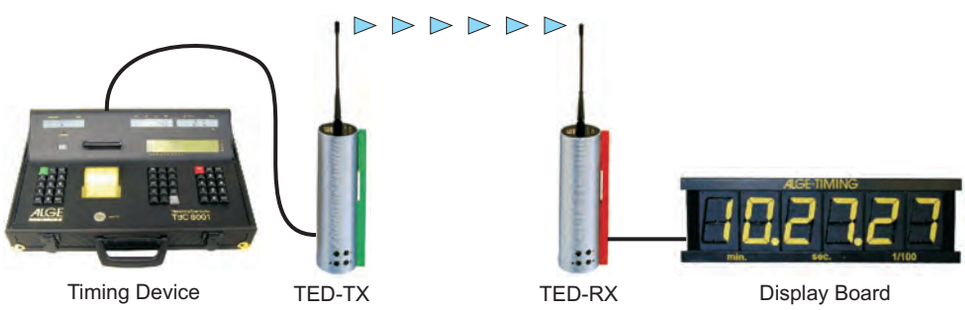
From the Timing Device at the Start to the Finish:



Data Transmission from the Timing Device:

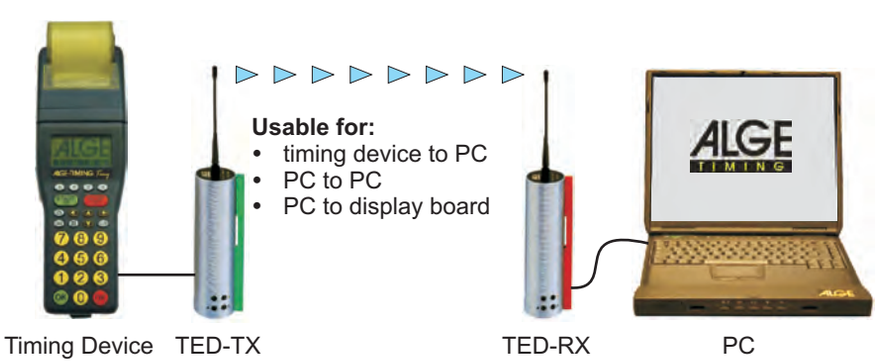
Each data record is transmitted once. Every 1/10 second a data record can be transmitted:

- from timing device to display board
- from timing device to printer
- from TIMY or COMET terminal to a football (soccer) score board



Free Data Transmission:

Any data record is transmitted. A data record can be sent every 1/10 second.



ALGE Teledata TED: Technology made to steady you

	TED-TX10	TED-TX400	TED-RX
Transmitting Capacity	10 mW	400 mW	----------
Working Range	Up to appr. 1,5 km	Up to approx. 5 km	----------
Frequency: Standard Alternative	433,500 MHz 434,300 MHz	434,600 MHz 433,800 MHz	all fequencies
Interfaces:	Input for RS 232	Input for RS 232	Output for RS 232 + RS 485
Power Consumption (one impulse per minute):	300 hours	270 hours	54 hours
Operating Temperature:	-20° to +50°C	-20° to +50°C	-20° to +50°C
Dimensions (without antenna):	198 x 72 x 72 mm	198 x 72 x 72 mm	198 x 72 x 72 mm

Homologation:
- Germany
- Austria
- Switzerland
- Italy

Antenna: short, sturdy, flexible

Connections: compatible with ALGE products and most others
- Banana Jack for data and start impulse
- DIN-Jack with connection for start and stop pulse, data and external supply

Input Signal: closing contact, active low, min. 10 ms

Output Signal: transistor, open collector, active low, 100 ms

LED: for battery indication (TED-TX and TED-RX), and moreover for field intensity indication in the TED-RX

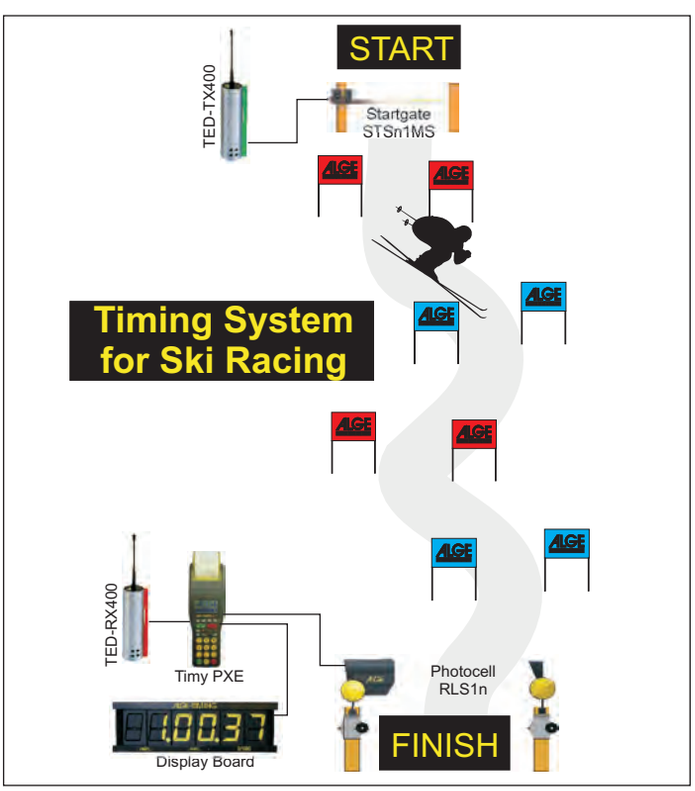
Loudspeaker: in the TED-RX for field intensity indication and interface evaluation

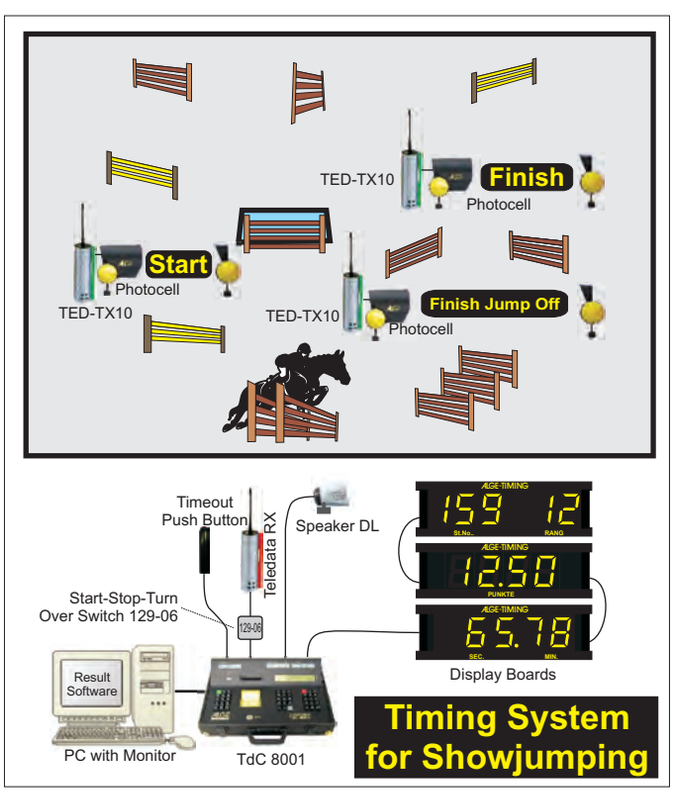
Power Supply:
internal:
- 6 x AA – Alkaline-batteries or
- 6 x AA – NiCd-rechargeable batteries

external:
- Charger PS12 or from timing device

Fastening: Velcro fastener for pole fixation, threat for tripod or flange support for photocell

Accessory:
- Case with foam insert for save transport
- Rechargeable battery-set with 6 x NiCd-batteries for TED
- Charger LG6AA for 6 NiCd-rechargeable batteries
- Channel extension RX-C10
- Holder to set up a TED and photocell at one tripod or fastening console





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ALGE SWIM SYSTEM TimeManager

A NEW TECHNOLOGY THAT MAKES TIMING A PLEASURE!

Features of the ALGE TMS System:

- PC - based timing-system
- **USB-Interface** to connect the timing system with new generation of computers and notebooks
- easy to operate,
- **Meet-Manager Software** with **LENEX - data transfer** and integrated network capability
- possibility to control up to 12 lanes
- **all lanes are controlled by optical** and **by accustical signals**
- possibility to connect to each lane on each side 1 touchpad, 3 manual push buttons and 1 relay-start-pad (**5 independent timing - channels per lane and side**)
- all lists can be published directly as html-files (for internet-distribution)
- **integrated backup battery** works for 4 hours (without computer)
- integrated **speaker-system**
- communication between starter and timekeeper is possible with headset
- on screen **false-start warning**
- warnings of missed touch(es), of too large time difference between manual button and touchpad or too high lap difference
- **Most reliable and rugged touchpads**

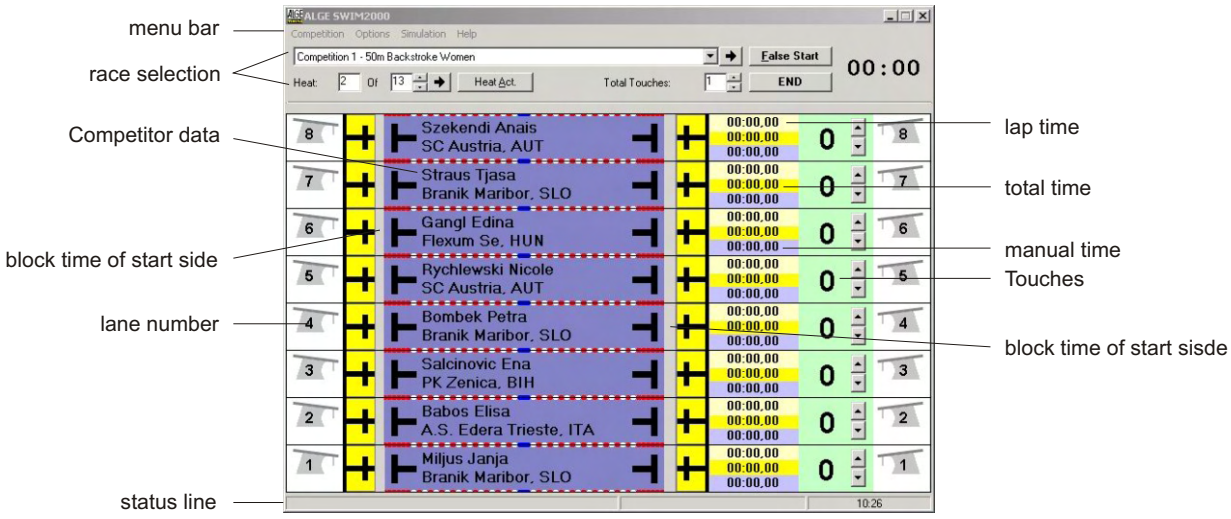
ALGE TIMING

PC-SOFTWARE

The ALGE-PC-Software for the TMS consists of several separate program parts. Because of this modular construction it is possible to have the timing on one PC and execute the meet management on another (or more).

Since the timing software and meet management software is produced by the same company everything is a 100% interoperable. Although the meet management software is included in the TMS, we have interfaces for the most common 3rd party meet management softwares. The TMS software works with all current Microsoft Windows versions (Windows 95, 98, ME, NT, 2000, XP).

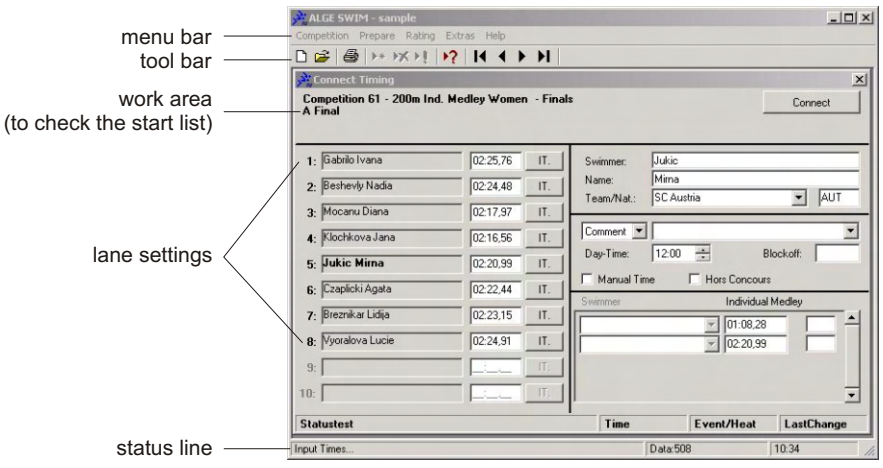
TIMING - PROGRAM



The timing software has clear, animated symbols. This makes operation very easy!

- optimized for the evaluation program
- optical illustration
- same order as the swimming pool in front of you
- easy to operate
- 10 years cost-free software update
- battery backup
- Clearly arranged event protocol
- possibility to operate with 12 lanes
- competitor details also for the timekeeper
- lots of useful control functions

MEET-MANAGEMENT - PROGRAM

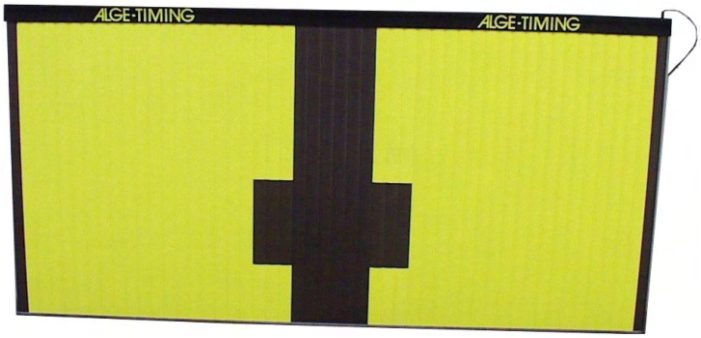


The ultimate solution. Timing system and Meet-Management Software are optimized to each other.

- start fee administration
- LENEX-data transfer
- registration overview
- registration lists
- relay registration
- overviews
- time schedule
- start lists
- statistics
- result lists
- Penalty calculations
- point lists
- LEN-point calculation
- possibility to publish all lists directly in the internet

ALGE Swimming Components

TimeManager for Swimming
The high-tech device TMS is collecting and storing all data Flash-Rom, galvanically separated interfaces, acoustic part and synchronous input-output.

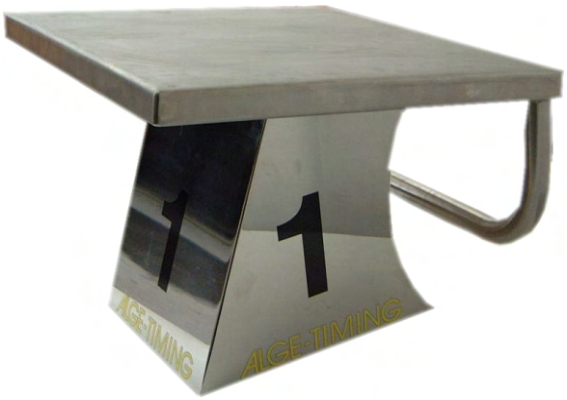


TOUCHPAD TP18/24
The touchpad is one of the key components of this timing system. The quality of this component is relevant for the success of the complete system. The closed construction of the touchpad (backside of stainless steel 1.4571) is significant for reliability. The touchpads are available in different dimensions :
TP 24: active area 2444 x 906 x 10 mm
TP 18: active area 1855 x 906 x 10 mm
For other sizes please contact your ALGE dealer

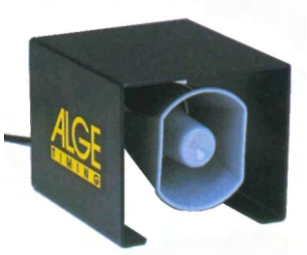
SWIM TERMINAL SWT
The terminals are connected with only one cable from terminal to terminal. At the last terminal you have to connect a SWT-END. All terminals are identical. No numbering!!
Each SWT includes jacks for 1 touchpad, up to 3 separate push-buttons 023-02 and one Start Block SO 2 or SWR 2.

PUSH-BUTTON 023-02
waterproof rugged construction,
cable length 2 m

START UNIT SU2
with integrated microphone and start push button



START BLOCK SO 2
modern design made of stainless steel (1.4571). Different size and design on request.



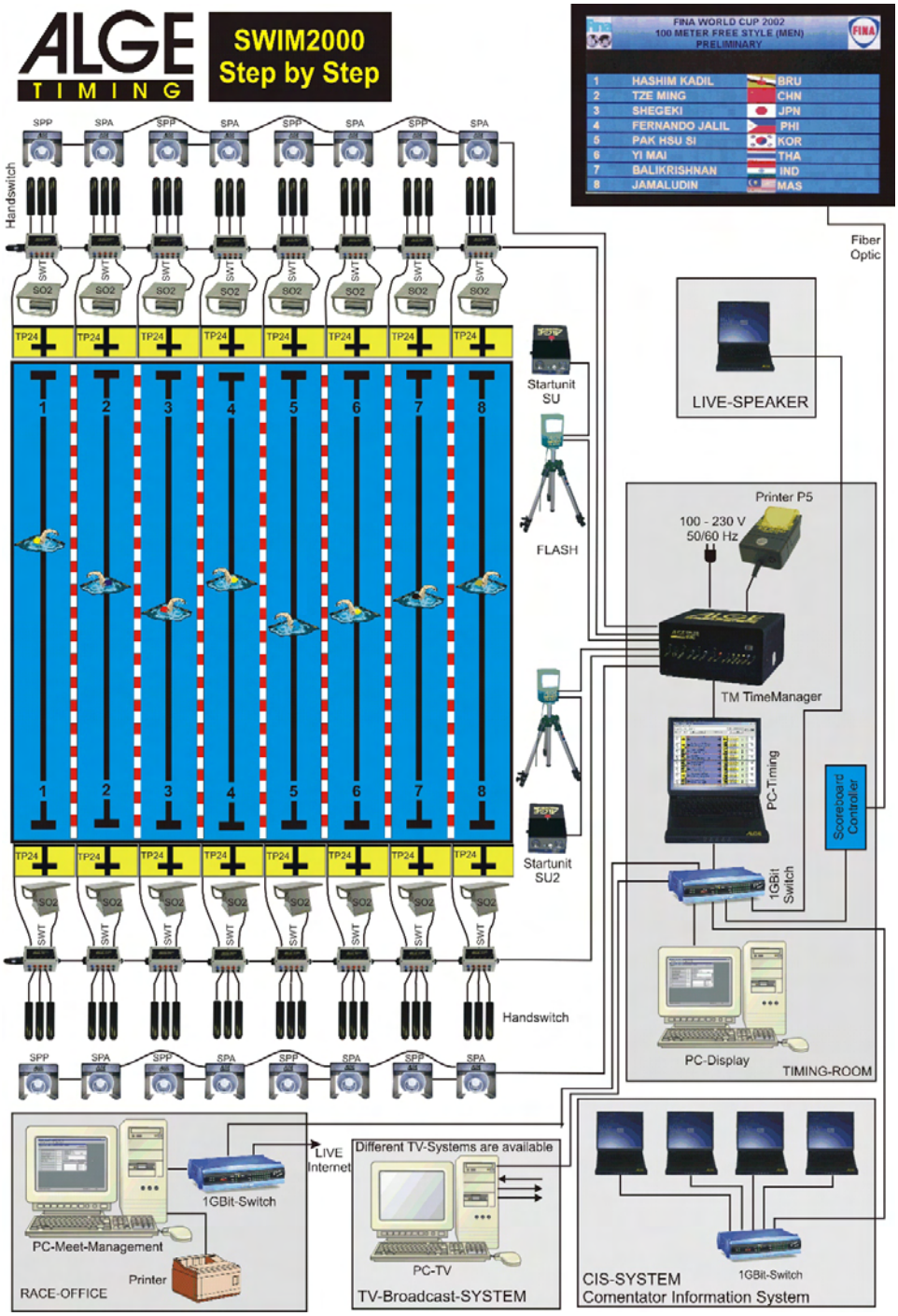
SPA and SPP
Built-in gel-cell-battery and amplifier. Each SPA can drive one SPP.

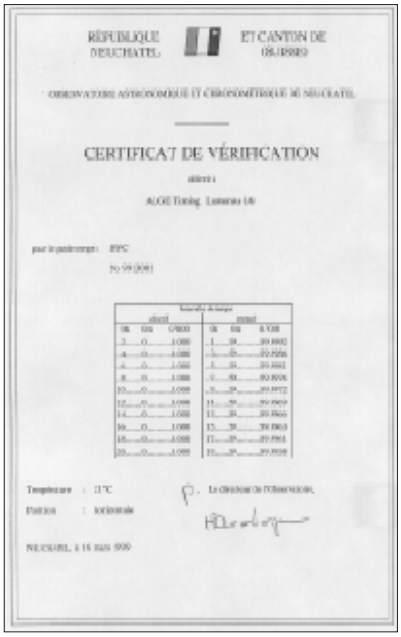
Display Board:
Available with different technologies and configurations up to videowalls!

SWR 2 RELAY START PAD
The best solution for existing starting blocks. Different size and design on request.

Technical data: TimeManager for Swimming - TMS:

Measuring Range:	23 hours, 59 minutes, 59.9999 seconds
Time Reference:	TCXO 10.000MHz (temperature compensated quarz oscillator)
Frequency Deviation:	temperature range -25 to 50°C (-13 to 122°F): +/- 2,5ppm (+/- 0,009 sec./h.) with ageing: +/- 1 ppm per year at 25°C (77°F) adjusted to +/- 0.1 ppm
Power Supply:	internal: 12V gel cell battery external: 100-240 V 50/60Hz or 12-18 V DC
Interfaces:	1 USB Interface for PC or Video 3 RS232 interfaces 1 x display board ((2400-38400 kBaud) galvanically separated 1 x protocol printer (2400-38400 kBaud) 1 x video interface (2400-38400 kBaud) galvanically separated 3 RS485 interfaces 2 x timing bus start side and turn side 1 x display board
Connections:	1 x SWT line start — 1 x SWT line turn 1 x printer 1 — 1 x printer 2 1 x PC/TV - RS232 — 1 x PC/TV - USB 1 x display board (DIN) — 1 x display board (banana plugs) 1 x start (banana plugs) — 2 x SU (Start Unit) / FLASH 2 x Speaker active — 1 x headset 1 x audio line In — 1 x audio line out
Regulators:	1 x microphone — 1 x headset 1 x audio in — 1 x total volume





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Photofinish OPTIc2o

The ALGE **OPTIc2o** is the next generation of the successful photofinish system OPTIc. The camera uses the latest CCD-line scanning sensor technology. This allows using the camera even at bad light conditions. High recording speed with up to 3000 lines per second and high resolution with up to 1360 pixel.

The OPTIc2o is a computerized color photofinish system with integrated evaluation software.
The color line scanning camera scans every movement at the finish line in true color (24 bit, 16.8 million colors) and stores the data on the hard disk of the computer. The stored picture can be shown at any time on the monitor or can be printed.

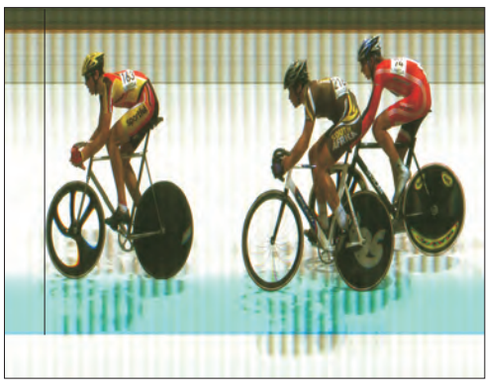
The Main Features of the ALGE OPTIc2 are:

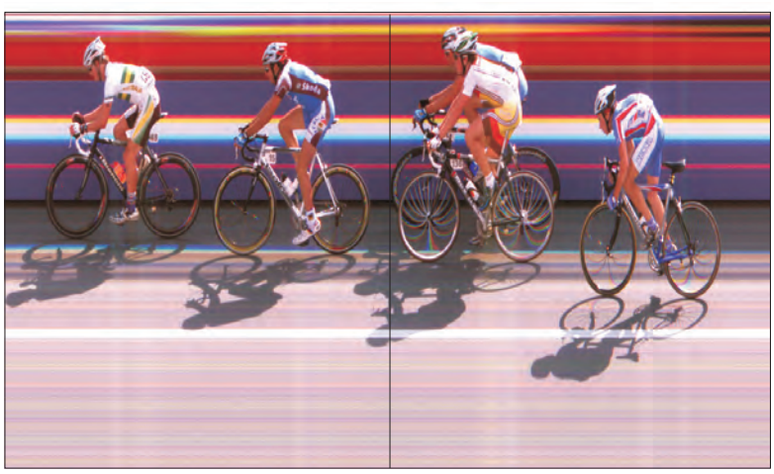
- Best picture quality in all light conditions by modern line scanning sensor.
- Highest timing precision by Temperature Compensated Quartz Oscillator TCXO.
- Easy handling with Windows XP or Vista.
- Unlimited recording time with suitable PC hardware.
- High resolution, 3000 lines per second and 1360 pixel.
- Recording speed is adjustable between 100 and 3000 lines per second.
- Vertical resolution is adjustable: 680, 768, 1024 or 1360 pixel
- Evaluation is possible even before all competitors reach the finish line.
- You can evaluate a finished race while another race has been started.
- It is possible to start a new race before the finished race is evaluated.
- The time of each evaluated competitor is recorded automatically into a flexible result list.
- Camera OPTIc2o for IEEE1394 connection (up to 10 m cable) or optical cable connection (long distance).
- Possibility to use a desktop-PC or notebook with IEEE 1394 (firewire) interface.
- C-Mount lens adapter as standard (on request Nikon lens adapter possible)
- C-Mount zoom lenses and motorzoom-lenses are available.

ALGE TIMING

For which sports is the OPTIc2o useful?

- Track and Field
- Cycling
- Horse Races
- Greyhound Races
- Cross Country
- Biathlon
- Rowing
- Canoeing
- Short Track
- Inline Skating
- Motor Sport
- any sport as backup





Integrated Evaluation

The OPTIc2o includes three ways of transfering the time from the picture to the result list:

Manual Identification:
Mark the competitor in the result list. Move the time line with the mouse to the point where you want to read the time and press the right mouse button. The time moves automatically to the selected competitor in the result list.

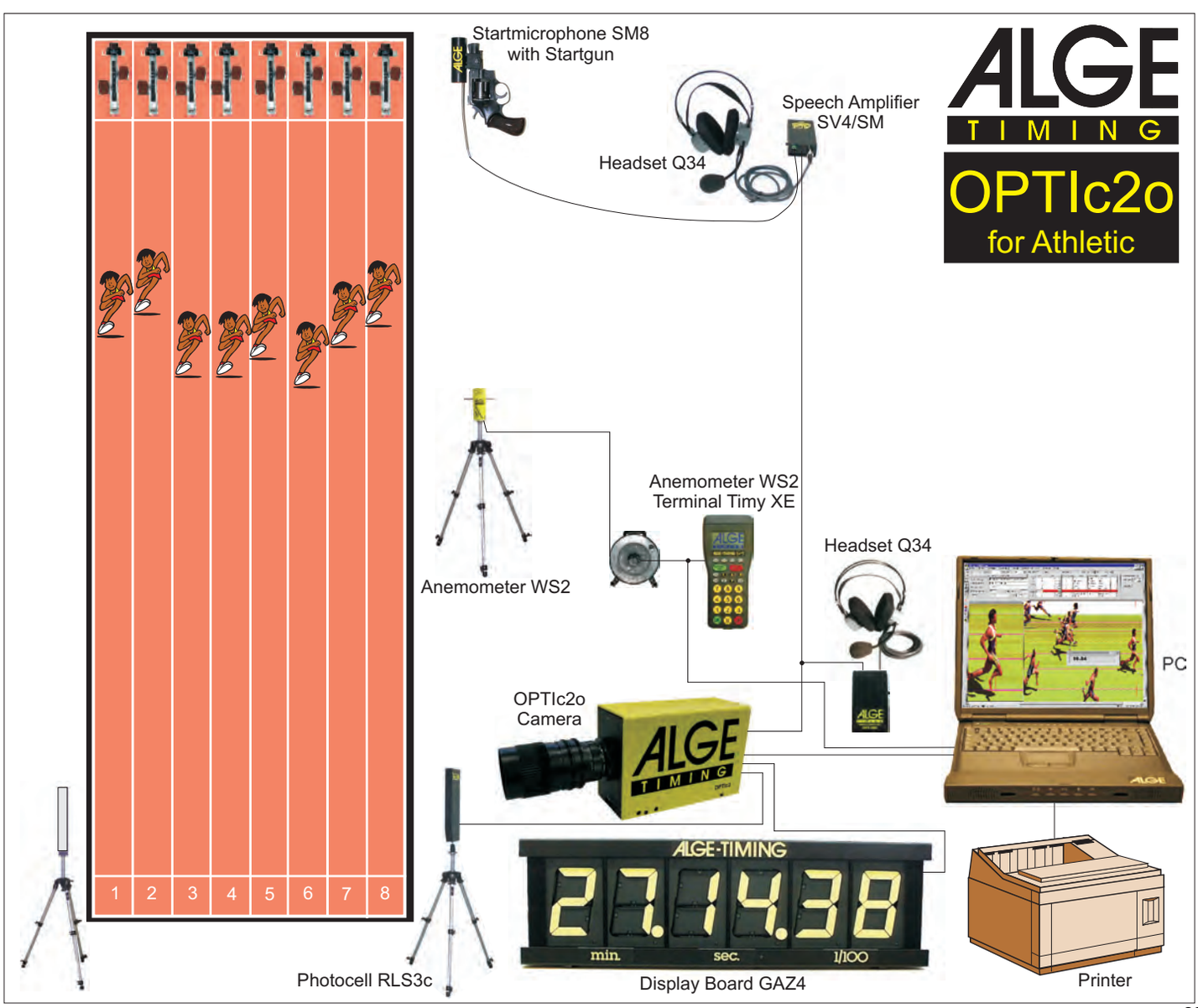
Lane Identification:
Mark all lanes before the race starts. For the results of an individual competitor, move the time line to the correct lane. Press the right mouse button, and the time for that competitor is automatically recorded in the result list.

Start Number Identification:
Move the time line to where you want to time an individual competitor. Press the right mouse button. A small window opens, where you have to input the ID number of the competitor. That time moves automatically into the result list.

Result Lists

- Start list
- Result list sorted by rank
- Result list sorted by lane
- Result list sorted by start number

Flexible Result Lists:
- it is possible to select, name and sort headers and to select the length of the text field for the header.
- the software can calculate the following headers: average speed, delta time, horse distance
- if a competitor has no time, it is possible to select the reason for this in a pull down menu
- if you input the time into the result list with the keyboard and not from the picture, it is indicated



Technical Data

Camera OPTIc2o

Sensor:	3 x 1360 pixel (RGB)
Pixel Resolution:	max.1360 pixel per lane
Number of Colors:	16.7 million colors, or black/white
Scan Rate:	100 to 3000 lines per second
Recording Time:	unlimited; depends on PC harddisk
Objective:	C-Mount lens adapter Option: Nikon lens adapter
Quartz Frequency:	TCXO 20.000 MHz (temperature compensated quartz oscillator)
Measuring Range:	23 hours, 59 min., 59.999 sec.
Frequency Deviation:	Temperature: +/- 2.5 ppm at -30 to +75°C (+/- 0.009 seconds per hour) Ageing: +/- 1 ppm per year Frequency Adjustment : +/- 0.1 ppm at 25°C
Connections:	2 x start input (banana socket) 1 x finish input (banana socket) 2 x finish input (DIN-socket) 1 x display board (banana socket) 1 x motor zoom 2 x IEEE 1394a 9-pol 1 x GOF (LC duplex glass optical fiber connector) 1 x power supply
Power Supply:	+9 - 36 VDC
Temperature Range:	0 to 50°C

Requirements for IEEE 1394 interface for PC:

Compatibility:	IEEE 1394A or 1394B OHCI compatible
Transfer Rate:	min. 400 MBit per second

Requirements for PC (Desktop or Notebook):

Processor:	Intel Pentium Dual Core (similar or better)
Hard Disk:	min. 60 GB hard disk (as faster as better)
Memory:	min. 1 GB RAM
Graphic:	min. 32 MB Graphic RAM
Monitor Resolution:	min. 1024 x 800, best with 1600 x 1200 or 1920 x 1200
Interface:	IEEE 1394A or 1394B OHCI compatible Interface

Accessory:

ALGE-TIMING offers a wide range of accessory for the photofinish camera. We will list here only the most important ones. Please contact your local ALGE-dealer for more information.

Differnt Lenses for Camera:	Wide range of zoom lenses (manual and electronic controlled) and fix lenses.
IEEE1394 Camera Cables:	Wide range of IEEE1394 cables (up to 10 m) and repeater cables (up to 30 m).
Optical Cables:	Wide range of optical cables and cable reels with optical cables.
IEEE1394 Interfaces:	Wide range of 1394 interfaces for Desktop or Notebook.
Tripod Triman:	To mount the camera (Gearhead is additional necessary)
Manual Gearhead 410:	Three dimensional gearhaed to adjust the camera exact to the finish line.
Electronic Gearhead 410E:	Electronic controlled three dimensional gearhaed to adjust the camera exact to the finish line. No additional wiring is necessary. It is controlled by the OPTIc2-Software of the PC.
Weather Protection Case:	Protects the camera if used outside in the rain.
Battery Backup for Camera:	Battery Device BB1 with integrated 12 VDC battery and charger.

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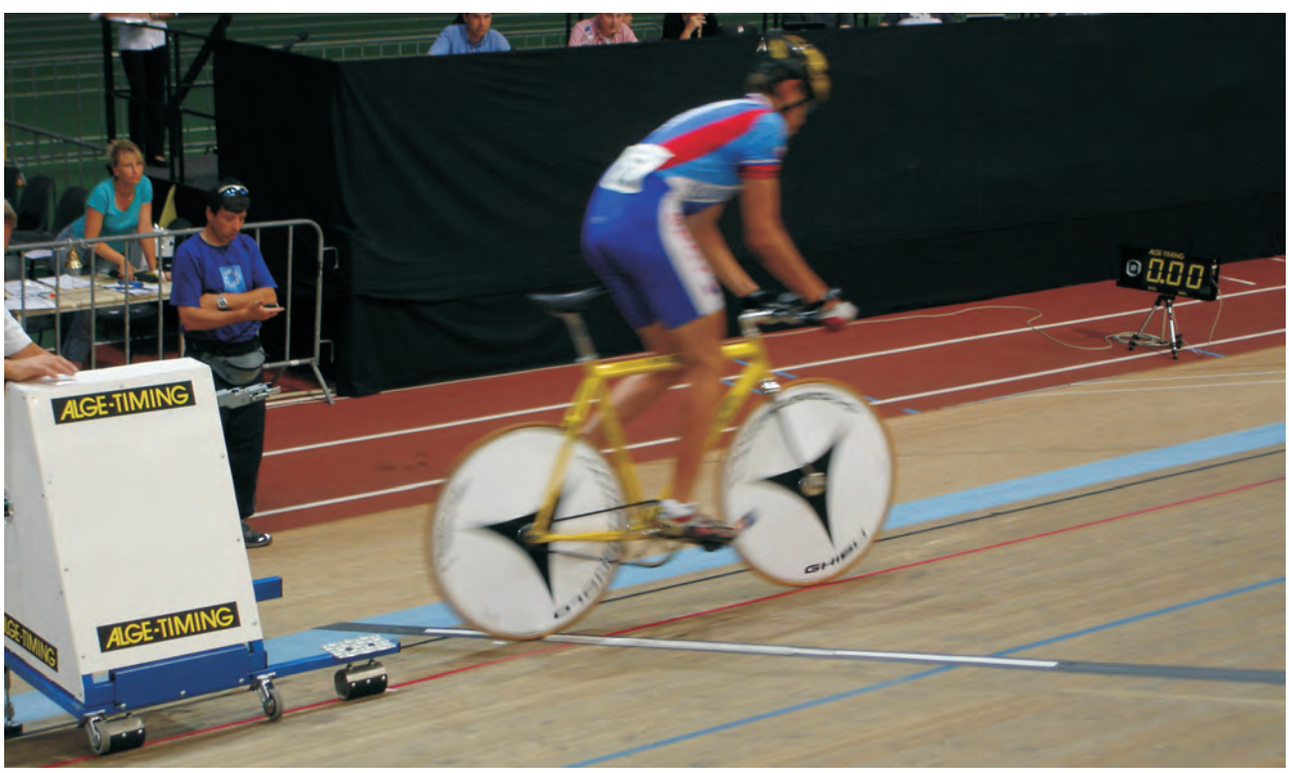
CycleStart

CycleStart is a smulti use system especially developed for track cycling. For all events with an electronic countdown (e.g. pursuit) it is used as start countdown. The display board counts down from 50 seconds to zero supported by a countdown horn. The CycleStart can be used as lap counter and backup timing system for all races.

The CycleStart does include the complete connection boxes for the timing. This means that at all strategically important places a distributor box is placed in order to connect timing devices, displays, etc. Since the cable length may vary a lot depending on the track, it is not included in the system but ALGE can provide them in custom-made length.

ALGE-TIMING offers a CycleStart for mobile installation as well as for permanent installation.



CycleStart M consisting of:

- 2 x CycleStart display board CS-DB
- 2 x Tripod TRI128
- Terminal Timy S
- Power Supply PS12A
- 2 x Pushbutton 023-02 for lap counter
- Distributor Central VELO-M-B
- Distributor RED VELO-M-A
- Distributor GREEN VELO-M-C
- Distributor Sprint VELO-M-D
- Distributor Start 200 m VELO-M-E
- Distributor Timing VELO-M-F

CycleStart P consisting of:

- 2 x CycleStart display board CS-DB
- 2 x Tripod TRI128
- Terminal Timy S
- 2 x Pushbutton 023-02 for lap counter
- Distributor Central with built-in charger VELO-P-B
- Distributor RED VELO-P-A
- Distributor GREEN VELO-P-C
- Distributor Sprint VELO-P-D
- Distributor Start 200 m VELO-P-E
- Distributor Timing VELO-P-F

ALGE TIMING

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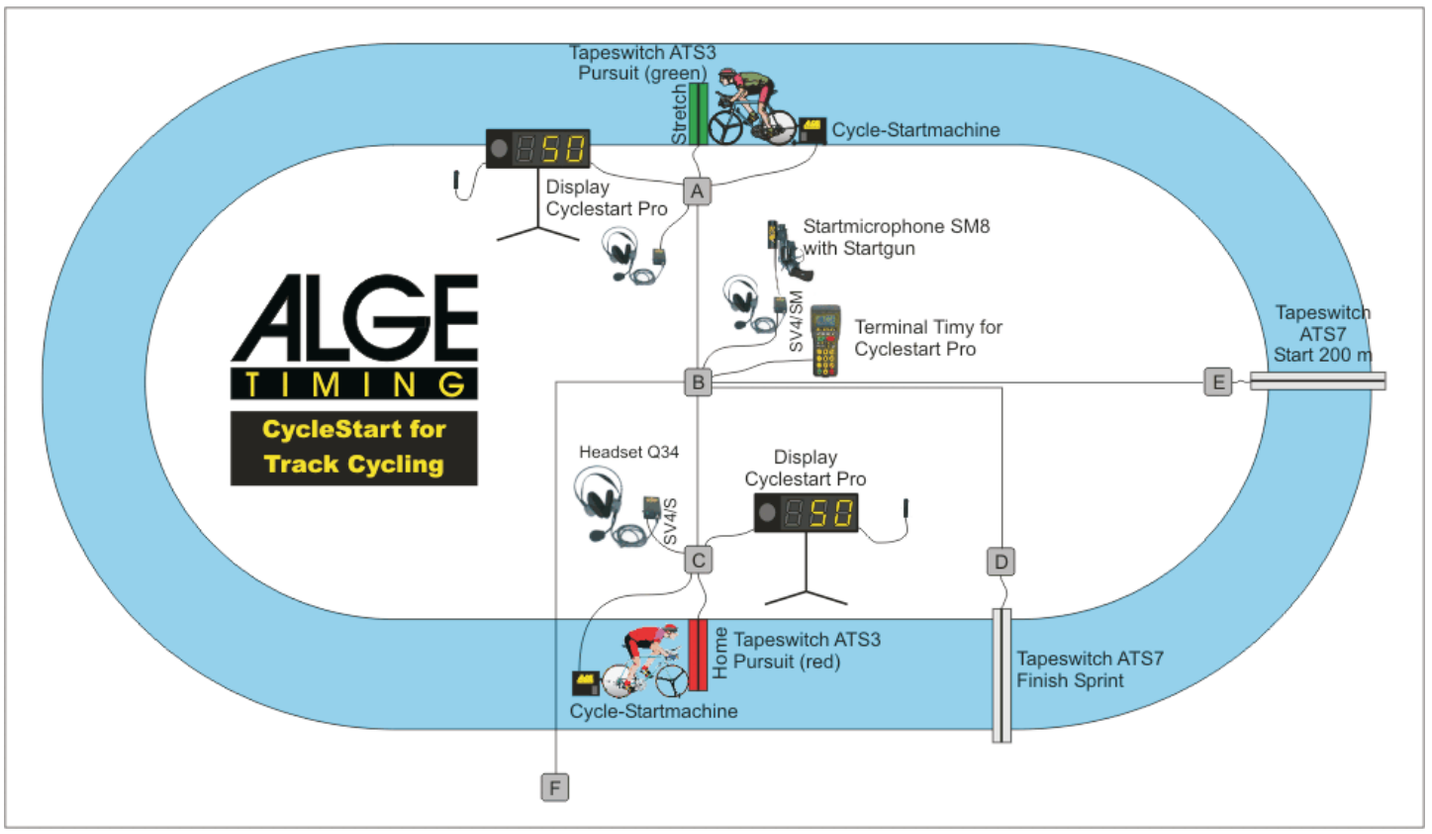
Display Board CS-DB:
2 electromagnetical digits, yellow on black ground, red-green light for countdown and cycle-identification, figure height 15 cm, max. reading distance about 70 m, complete with built-in countdown horn and powerpack (battery and charger)

Tripod TRI128:
with a maximum height of 128 cm

Controller Timy:
to control the display board (countdown function and lap counter), as well as backup timer

e.g. Distributor VELO-M-A

e.g. Distributor VELO-P-C

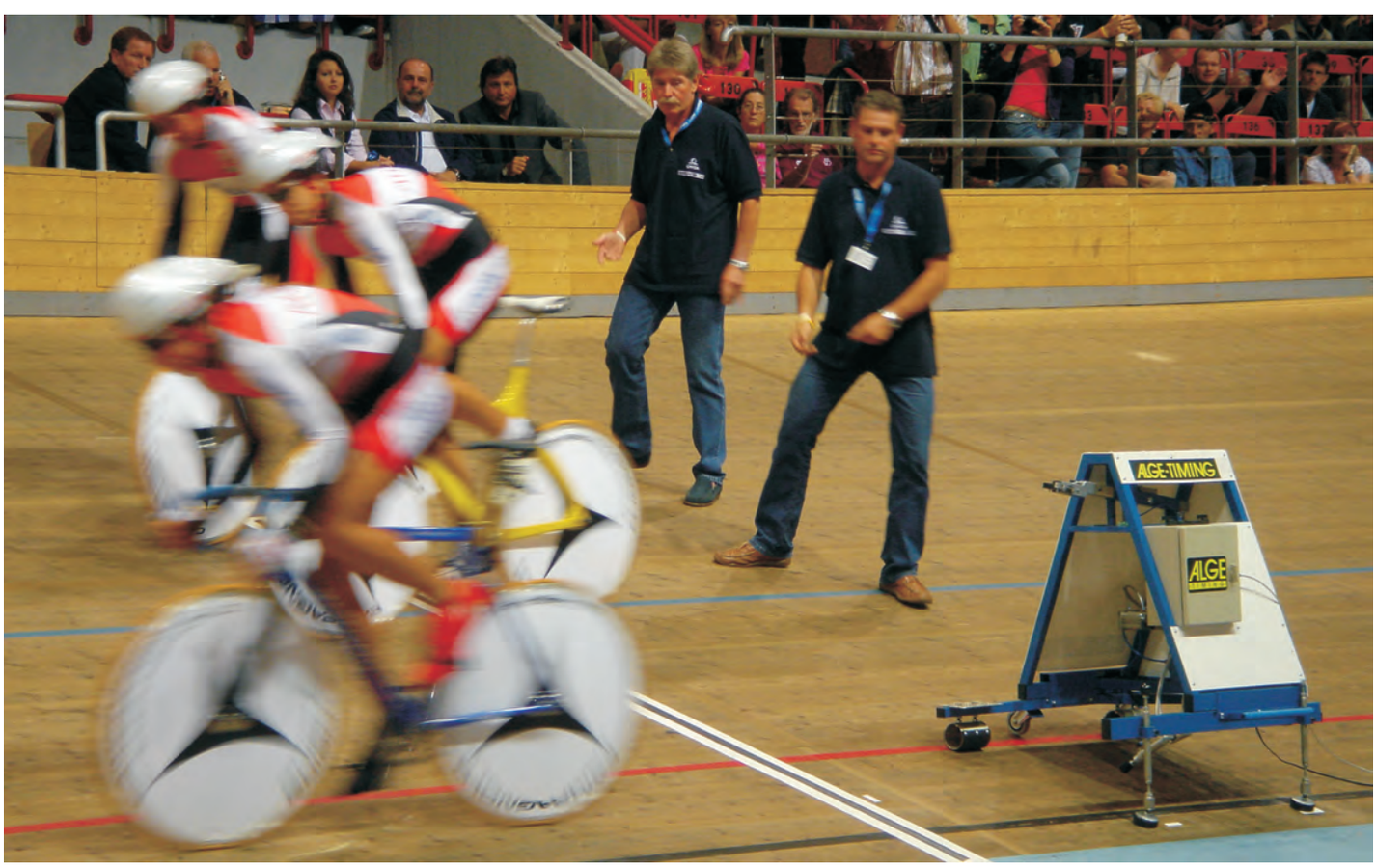


ALGE TIMING

Track Cycling Startmachine ST-BMS1

Variable adjustable pneumatic startmachine (with compressor) that meets the highest requirements for all levels of track cycling:

- start output (banana sockets)
- start input (banana sockets)
- connection for compressor
- meter for compressed air
- push button for back wheel brake - closing
- push button for back wheel brake - opening
- push button for saddle holder - closing
- push button for saddle holder - opening
- push button for back wheel stand
- 2 x operation switch
- brake for back wheel
- brake for saddle
- back wheel stand
- internal 12V rechargeable battery
- adjustable level for track steepness



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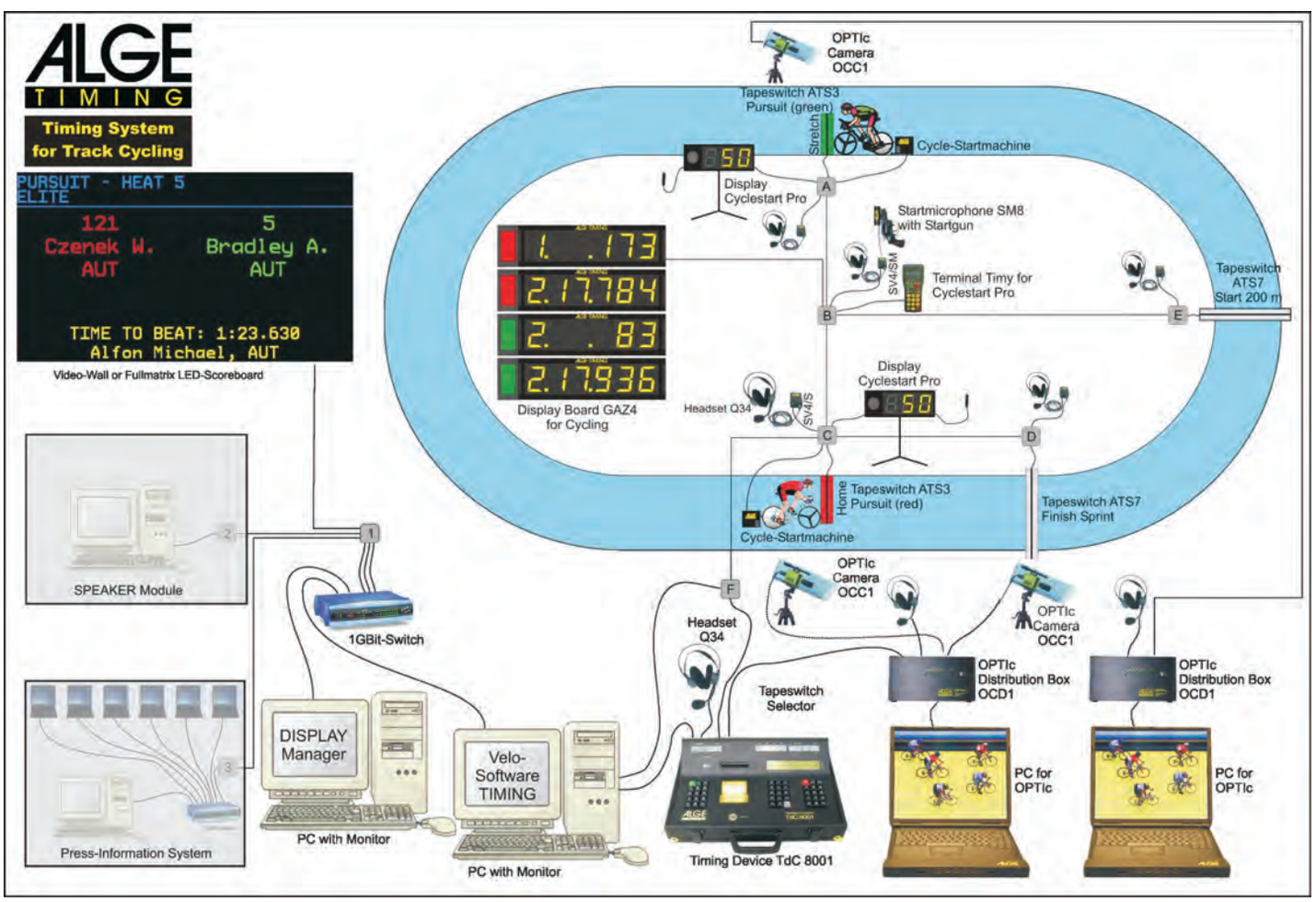
Operating Elements

Saddle Holder

Compressor

Cycle is locked at saddle and at the back wheel
as well as a stand stabilizer at the back wheel



ALGE TIMING

Accessories for Athletics

Startmicrophone SM8:
The Startmicrophone SM8 is used for all sports that are started with a start gun, e.g. athletics, triathlon, cycling, swimming, speed skating, short track, cross country.

Startgun STP:
The start shot of the gun produces an electric impulse in the Startmicrophone. This electric impulse triggers the timing device. The Startmicrophone can be screw onto the start gun (see picture).

Speech Amplifier SV4-SM:
If you connect the Startmicrophone to the Speech Amplifier SV4/SM, a voice communication is possible with the headsets Q34. For this voice communication the same two-wire cable as for the start impulse is used.

Headset Q34:
Top class headset with built-in headphones (one for each ear) and a microphone. Recommended for outdoor use.
Type Q34: cable length 2 m (80 inch)
Type Q34/5: cable length 5 m (200 inch)

Headset HS-1/D:
Headset with built-in headphone (one earpiece) and microphone. Recommended for indoor use.
Cable length: 1.5 m (60 inch)

Triple-Photocell RLS3:
The Triple-Photocell consists of photocells arranged on top of each other built into the same case. It has a reach of between 2 and 15 m.
There are two different modes:

Photocell Area:
Used for athletics. Only if all 3 photocells are triggered at the same time an impulse is produced. This prevents the photocell from being triggered with arms or legs (only with body) and produces a quite accurate „inofficial“ winner time. This photocell is very important, when a display board is used.

Single Photocell Use:
All three photocells work independently, this means the first one that is triggered will produce a timing impulse.

Display Board GAZ4:
Electromagnetic display board for public information of the „inofficial“ winner time, with a figure height of 15, 25 or 45 cm. Digits are yellow on black ground, best readability also with direct sunlight. Rugged aluminium case for outdoor use, battery operation is possible because af low power consumption.

Display Board D-LINE
LED display board for public information of the „inofficial“ winner time, with a figure height of 15, 25 or 45 cm. Digits are red LEDs, best readability also with direct sunlight. Rugged aluminium case for outdoor use. External power supply from mains or external car battery.

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L-TPS1100A Professional Serie

PowerSearch finds prisms- just press the button

Just press the button and save valuable time. Never before have you been ready to measure this quickly!

How it works:

In PowerSearch mode, the instrument rotates around the standing axis and sends out a vertical laser fan. As soon as it finds a prism, the instrument stops rotating and automatically targets the prism.

Track and Field Measurements:

Measurement in athletics - we can supply the software for the following disciplines:

Throwing Events:
- Discus
- Shot Put
- Hammer
- Javelin

Jump Disciplines:
- Long Jump
- Tripple Jump
- High Jump
- Pole Vault

Ready to measure immediately:

PowerSearch finds your prism rapidly. Just press the button and you are ready to measure, even when tracking has been interrupted. No special prisms are required so you can continue to use the accessories you already have. When solo surveying, PowerSearch saves you a lot of time.

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Windspeed WS2-TY for Athletics

The ALGE Windspeed WS2 works with a newly designed miniaturized calorimetric mass flow sensor that allows to make faster and more accurate wind measurements as previous anemometers.

It has a fantastic dynamic behaviour. Due to very small sensors (low mass) it is also possible to conduct accurate measurements below 1 m/s.

For athletics the measurement of the wind speed is an average value during a certain time period. Since the time period is quite long (up to 13 seconds) it is possible that wind changes occur. The more measurements are made during this time, the more accurate the result.

The WS2 does not use mechanical parts. Therefore a new adjustment is not necessary, since the measuring parts keep there specifications during their service life. Moreover, neither humidity nor unstable temperature conditions influence the device.

The WS2 has a rugged design. If it tipps over it does not need a new calibration.

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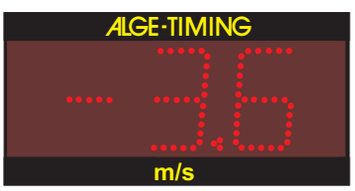
Anemometer WS2:
To measure the wind speed for running races or long jump.

Terminal Timy S:
To operate the anemometer. It shows the measuring results and it allows to connect to the OPTIc PC (Photofinish) to run the anemometer remote-controlled by the photofinish system.

Tripod TRI128:
To mount the anemometer, comes together with an adapter to set it in the correct height of 1.22 m

Cable Reel KTWS100:
with 100 m cable between WS2 and Terminal Timy



Display Board:
Accessory that allows to show the wind speed to the athletes and spectators. Display boards are available in different technologies and with different figure height.

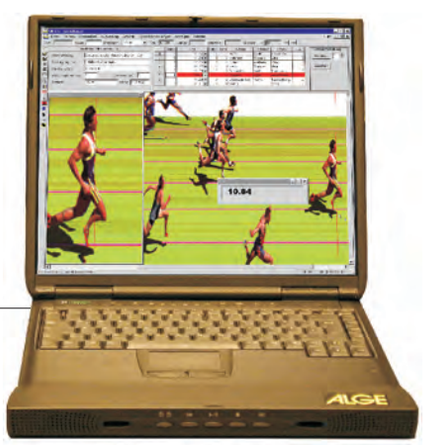
Standard Components:

- Anemometer WS2
- Terminal Timy S
- Tripod TRI128
- Cable Reel KTWS100 (100 m cable)
- Tripod Adapter

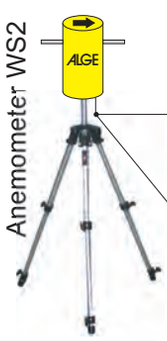
Accessory:

- Case with foam insert
- Display Board
- Terminal Timy PXE with Printer

Camera OCC1



Distribution Box OCD1



Anemometer WS2

KT-WS100

Timy Terminal

Wind Display Board

ALGE
TIMING

Windspeed
WS2-TY

Start Judge SJ for Athletics

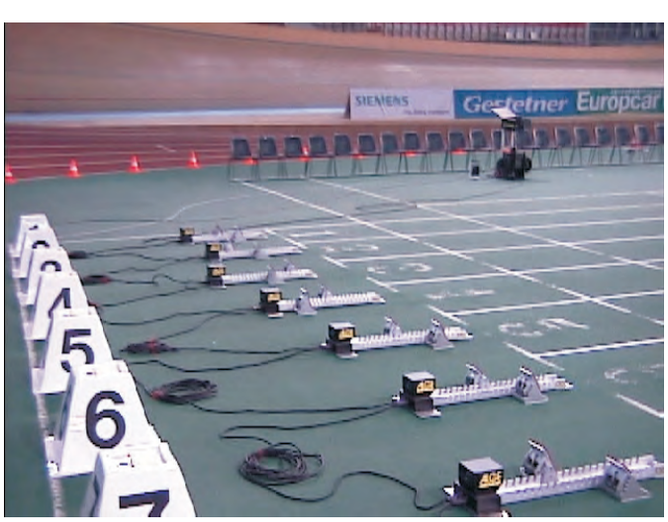
The Start Judge SJ is a system to control the start of short distance track races (up to 400 m). The system consists of a Start Judge Cart and a Starting Block for each lane. The Start Judge system has a built-in speaker system. This allows the starter to give commands to the athletes through the loudspeakers built into the starting blocks. Also the start command is emitted through this loudspeakers. Thus, the advantage for the athletes is that every athlete can hear the start tone at the same time without any delay.

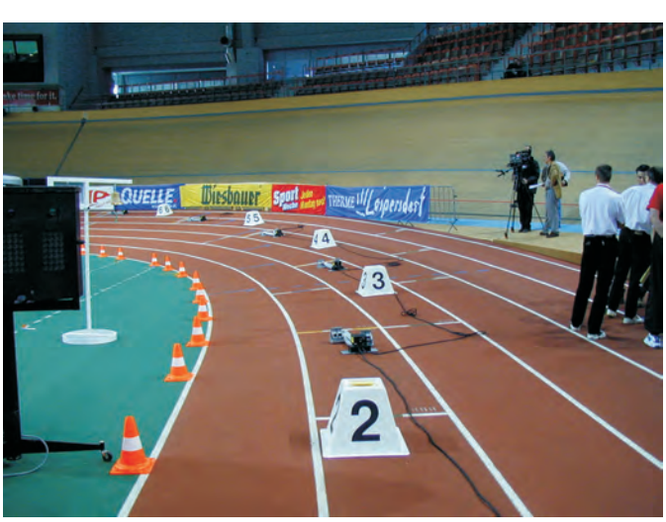
Each athlete has a starting block with a built-in contact. As soon as the athlete starts, he triggers this contact and the system checks the start impulse of the starter against each individual start time. If an athlete starts faster than a 1/10 of a second after the start, he causes a false start. There are two modes of the Start Judge to report a false start:

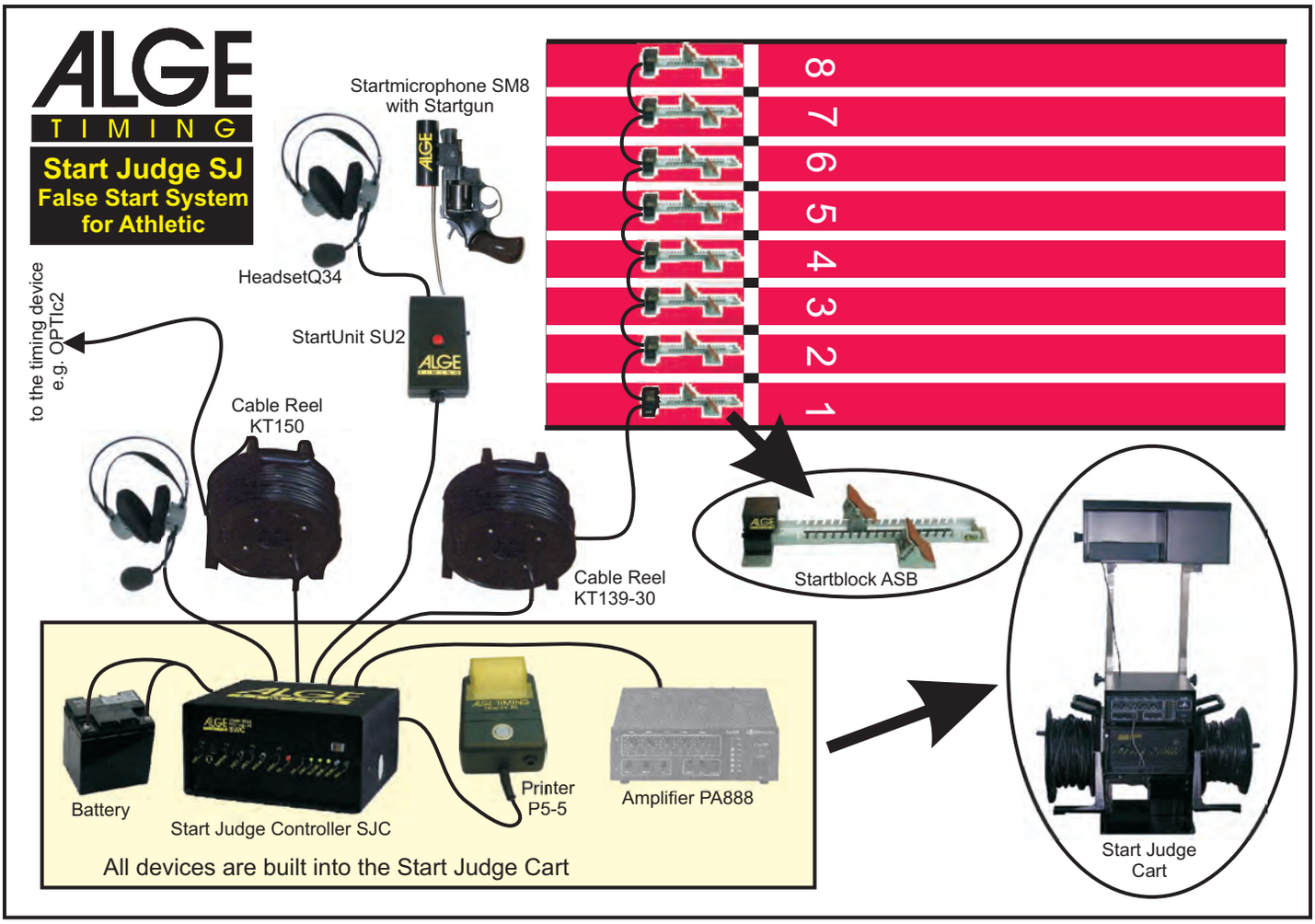
- Automatic false start tone of the Start Judge system to call the athletes back.
- False start tone in the head set of the Starter and Recaller informs about a false start measured by the Start Judge system. Now it is up to the Starter and Recaller to call the athletes back.

To the Start Unit SU a head set can be connected. The Headset Q34 is used for communication between starter and timing operator, but also for announcements to the athletes through the loudspeakers.
Also the Startmicrophone SM8 is connected to the Start Unit SU. The Startmicrophne SM8 is mounted on top of the Startgun (6 or 9 mm).

In the Start Judge Cart SJC we have all necessary components built-in like Start Judge Controller, printer, amplifier, charger and battery. The Printer P5-5 records all start times. On this document the starter can detect the lane that caused the false start.







Start Jude SJ - Systemcomponents

1 x Start Judge Controller SJC 

8 x Startblock ASB 

1 x Cable Reel KT139-30 with 30 m cable 

7 x Cable 139-10 between starting blocks (10 m)

1 x Amplifier PA-888 

1 x Start Unit SU 

2 x Headset Q34 

1 x Startmicrophone SM8 

1 x Startgun 9mm STP 

1 x Cartridge MUN 9 mm (50 pcs.)

1 x Printer P5-5 

1 x Rechargeable Battery12 V

1 x Start Judge Transport Cart SJT 

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Lap Counter D-LC

ALGE can offer a wide range of electronic Lap Counters with a figure height of 15 or 25 cm and two or three figures. You may select between one-sided, two-sided or three-sided models. The unit is complete with integrated power pack (built-in battery and charger), tripod, external push button, and, if required, with a bell.

The lap counter has two program modes:

Countdown Laps: From an preset value you count down until zero. After zero the lap counter returns to the preset value.

Countup Laps: For every lap you count one lap up.

The lap counter has an automatic powerdown (switches the LED off) to save batteries. In case the lap counter shows the same information for at least 10 minutes, the energy saving mode activates itself.

The lap counter is made for outdoor useage and has extra bright red LED, that you can see well even in direct sun light. It has a rugged aluminium case and is well-tested in all weather conditions.

ALGE TIMING

Technical Data:

- Red numeric 7-segment LED figures
- Two or three figures
- Connections:
  - Banana socket for external push button
  - Power Supply: internal battery or mains (100 - 240 VAC)
- Built-in power pack (battery with charger)
- On-Off Switch
- Automatic powerdown after 10 minutes
- Fastening: $^{3}/_{8}$ " thread for tripod
- Black aluminium case with red Plexiglas front
- Operating temperature: -20° to 60°C
- Tripod to set up the lap counter
- External push button with 10 m cable
- Certain Models: Bell

Model	Figure height	Reading distance	Amount of digit	Amount of faces	Bell
D-LC2-15-1	150 mm	70 m	2	1	no
D-LC2-15-2	150 mm	70 m	2	2	no
D-LC2-15-3	150 mm	70 m	2	3	no
D-LC2-25-1	250 mm	120 m	2	1	no
D-LC2-25-2	250 mm	120 m	2	2	no
D-LC2-25-3	250 mm	120 m	2	3	no
D-LC3-15-1	150 mm	70 m	2	1	no
D-LC3-15-2	150 mm	70 m	2	2	no
D-LC3-15-3	150 mm	70 m	2	3	no
D-LC3-25-1	250 mm	120 m	2	1	no
D-LC3-25-2	250 mm	120 m	2	2	no
D-LC3-25-3	250 mm	120 m	2	3	no
D-LCB2-15-1	150 mm	70 m	3	1	yes
D-LCB2-15-2	150 mm	70 m	3	2	yes
D-LCB2-15-3	150 mm	70 m	3	3	yes
D-LCB2-25-1	250 mm	120 m	3	1	yes
D-LCB2-25-2	250 mm	120 m	3	2	yes
D-LCB2-25-3	250 mm	120 m	3	3	yes
D-LCB3-15-1	150 mm	70 m	3	1	yes
D-LCB3-15-2	150 mm	70 m	3	2	yes
D-LCB3-15-3	150 mm	70 m	3	3	yes
D-LCB3-25-1	250 mm	120 m	3	1	yes
D-LCB3-25-2	250 mm	120 m	3	2	yes
D-LCB3-25-3	250 mm	120 m	3	3	yes

Other configurations as stated above are on request possible!

Sample of the order code:

D-LCB2-25-2

- Amount of faces
- Digit height in cm
- Amount of digit
- B ... With bell
- Digital Lap Counter

Digit with 150 mm figure height

Digit with 250 mm figure height

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INFIELD DISPLAY BOARD
IFD-RTNM-P3-24x96

We can offer infield display boards in all sizes and variations. If you plan to use an infield display board, please bear in mind that the largest one is not always the best. If the board is too large it obstructs the spectators' view. At major events the infield display board can also interfere with the TV transmission.

We recommend using double sided infield boards for stadiums with stands for spectators at all four sides. For outdoor stadiums you need to use the outdoor board. Indoor boards will not be readable at sunny days.

Infield Display Board IFD-RTNM-P3-24x96-ORS
- Full matrix single-sided infield display board
- Electrically rotating
- For outdoor use
- LED matrix area with 24 x 96 dots
- Red LED, 21.6 mm pixel pitch, 3 LED per dot
- Consisting of two parts (cart and display board)

Infield Display Board IFD-RTNM-P3-24x96-IRS
- Full matrix single-sided infield display board
- Electrically rotating
- For indoor use
- LED matrix area with 24 x 96 dots
- Red LED, 21.6 mm pixel pitch, 3 LED per dot
- Consisting of two parts (cart and display board)

Infield Display Board IFD-RTNM-P3-24x96-ORD
- Full matrix double-sided infield display board
- Electrically rotating
- For outdoor use
- LED matrix area with 24 x 96 dots
- Red LED, 21.6 mm pixel pitch, 3 LED per dot
- Consisting of two parts (cart and display board)

Infield Display Board IFD-RTNM-P3-24x96-IRD
- Full matrix double-sided infield display board
- Electrically rotating
- For indoor use
- LED matrix area with 24 x 96 dots
- Red LED, 21.6 mm pixel pitch, 3 LED per dot
- Consisting of two parts (cart and display board)

Technical Data: (for all boards the same):

Communication:	RS 232 or Ethernet
Active display area:	2073.6 x 523.2 mm
Display Board Measurements:	2150 x 600 x 120 mm (length, height, depth)
Total Dimensions:	2150 x 1600 x 850 mm (length, height, depth)
Power Supply:	100 to 240 VAC, 50/60 Hz

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To use the infield display board, of course, you also need the software, PC-network and other external devices like distance measuring device or anemometer. ALGE can offer a complete integrated system.

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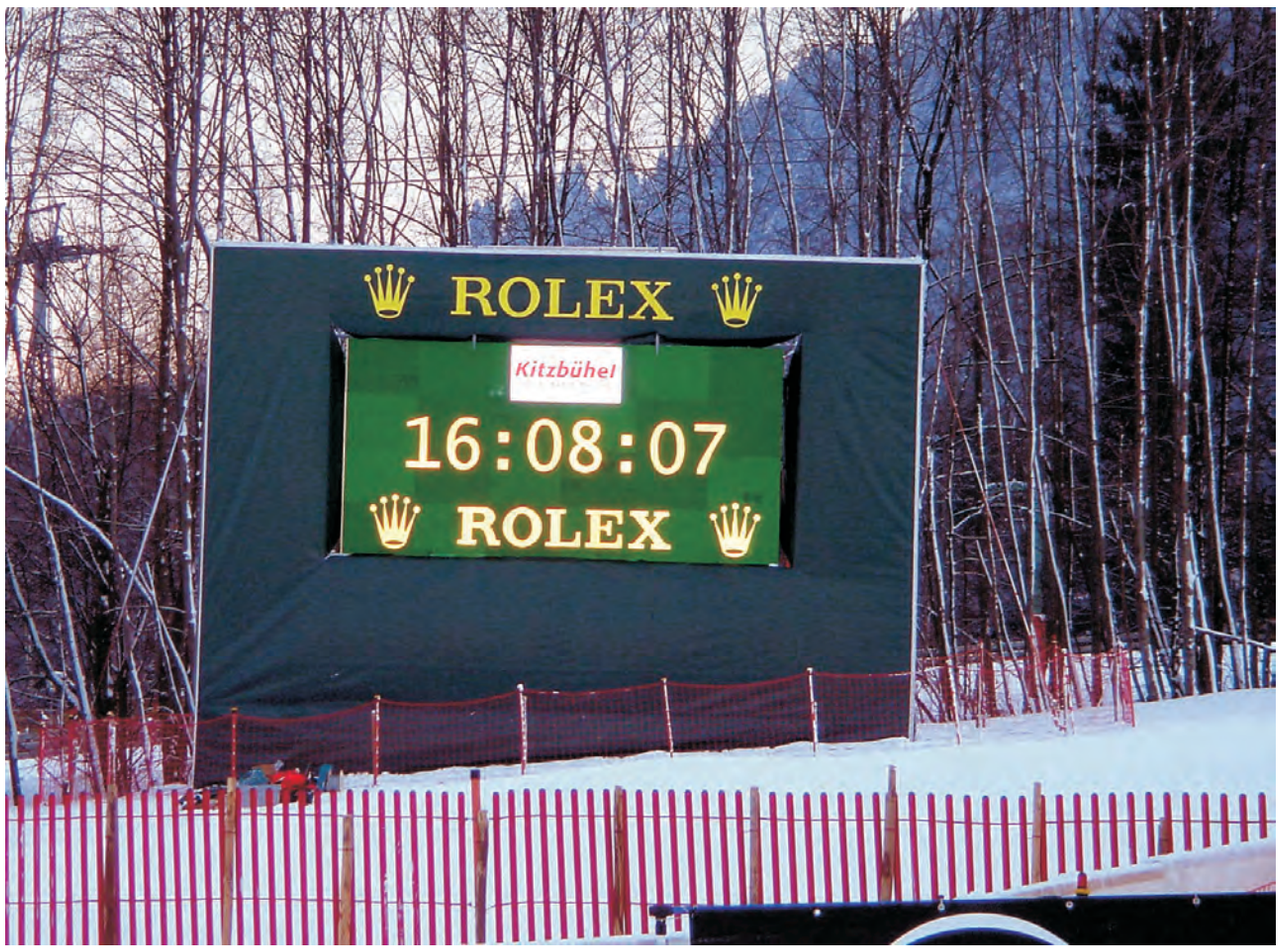
LED Stadium Scoreboards



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LED-Scoreboard Systems

LED-Matrix Boards are very complex. A lot of specifications influence the price. We would like to give you a short introduction on different terms that are used for LED-Matrix Boards:

Pixel: One pixel is the smallest point you can show with a Matrix-Scoreboard. Any pixel can consist of several LED's.

Pitch: Describes the distance from pixel to pixel. In general, the pitch starts with 4 mm and goes up to 50 mm. The smaller the pitch, the better the resolution and the more expensive the board per m².

Pixel Size: The bigger the pixel dimension compared to the pitch, the sharper the picture (fill grade).

LED/Pixel: Any pixel can consist of one or more LEDs. The more LEDs per pixel the better the scoreboard. But the quality also depends on the type of the LEDs. In our full color LED-Screens we only use Nichia LEDs that have the best performance.

Resolution: The resolution is the amount of pixels in vertical and horizontal order. The higher the resolution, the better is the quality of the picture or text!

Pixelsharing or virtual pixels: The pixelsharing mode is using LEDs from adjoining pixels to construct virtual pixels. The virtual resolution is four times higher than the physical amount of pixels.

But the picture quality of a physical videowall with 16mm is much better than the one of a 16 mm shared mode!

Luminosity: The luminosity is measured in cd/m² or in Nit (Candela per square meter) and is important for the brightness of the board. This technical characteristic is also stated in different ways.
Some producers will quote the luminosity for all colors are in maximum brightness. Any serious producer will specify the brightness in the white-balanced state.
Different colored scoreboards need different luminosity for outdoors.

1 color	2000 cd/m²
2(3) colors	3500 cd/m²
full color	5000cd/m² in white-balanced state!!

For full color scoreboards it is very important to indicate the luminosity in white-balanced status. Some manufacturers will state the brightness in all colors with 100%. This can result in a brightness of 8.000 cd/m², but after the board is calibrated (white-balanced) it means actually 5.000 cd/m²!

Viewing Angle: This is a dimension that is not 100% the same for different manufacturers. Some producers define the maximum angle as before the scoreboard gets dark. This is a poor definition!
All serious manufacturers will define the half-center brightness, which means in simple words the angle where you still have 50% of the full luminosity!

Refresh rate: The higher the refresh rate the more soft-focus is the picture.
We have a standard refresh rate of 240 and for the professional series we have a refresh rate of 500.

Static or Multiplexe Driving: The driving method of the LEDs should be static.

You can test this with a digital camera, just watch the video-wall and see if there is a flicker in the picture of the camera.

The same will happen if a TV-Camera films the video-screen and it is broadcasted on TV.

Outdoor: The LEDs are completely sealed with a special silicone and horizontal layers are integrated in the LED modules to maximize the contrast.

1 Color: The display features only one color (e. g. red). This color can have different shades to create a better picture (e. g. 256 shades, like a black and white picture). Most of these displays are also able to show animation-files.

2(3) Color: The display consists of LEDs with two different colors in each pixel (red and green). This two colors can be mixed so we can have more than 4000 colors. But all colors are in red, green and yellow tones.

Video Wall: The display offers LEDs with three different colors in each pixel (RGB – red, green, blue). These colors can be mixed so it has the complete true color spectrum (68 million colors). Such a board has a video input and it is able to show a TV picture. There are also scoreboards available with 10 bit color processing which will result in 1073 million colors.

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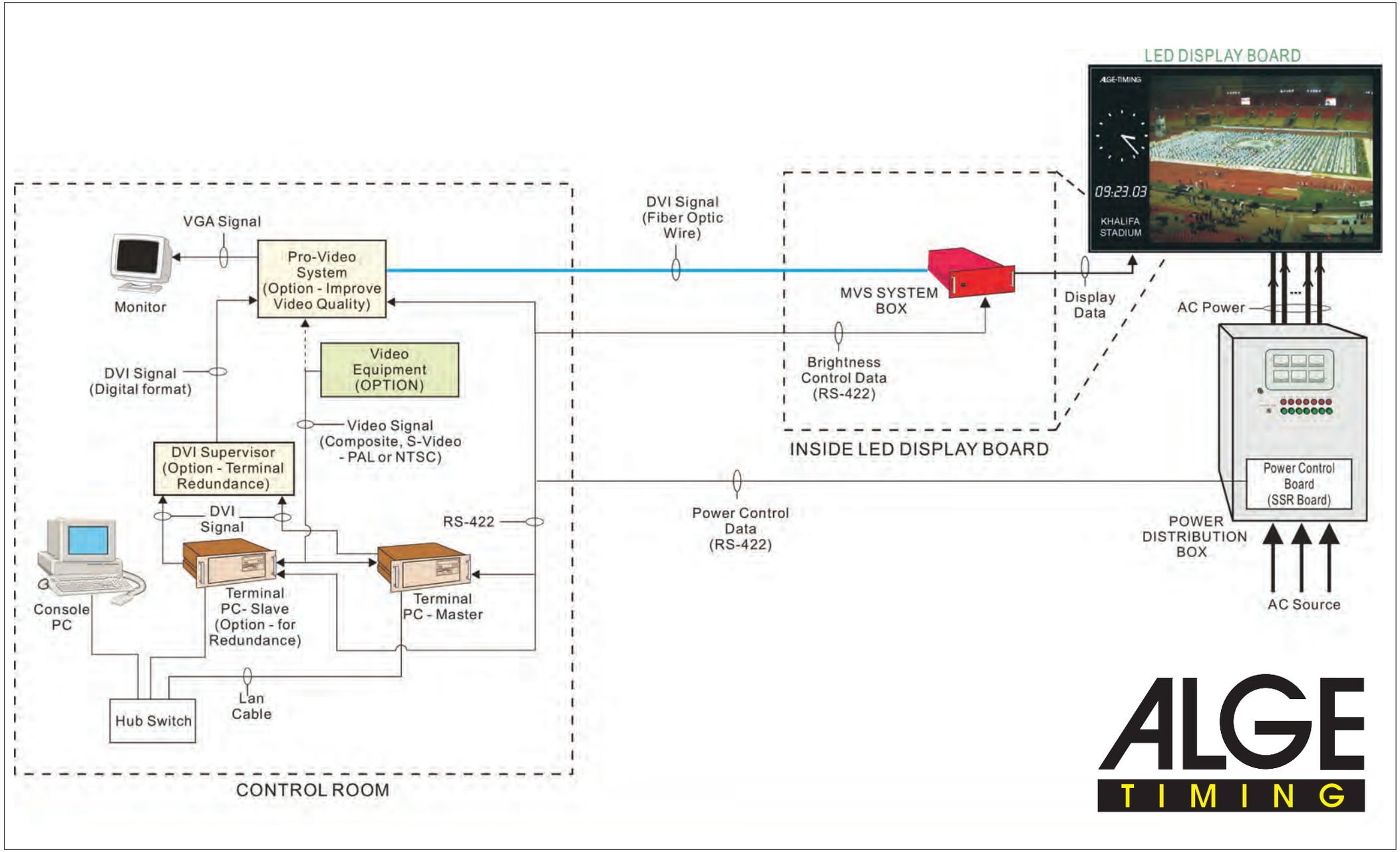
LED DISPLAY BOARD
ALGE-TIMING
09:23.03
KHALIFA STADIUM
VGA Signal
Monitor
Pro-Video System (Option - Improve Video Quality)
DVI Signal (Fiber Optic Wire)
MVS SYSTEM BOX
Display Data
AC Power
Brightness Control Data (RS-422)
INSIDE LED DISPLAY BOARD
DVI Signal (Digital format)
Video Equipment (OPTION)
Video Signal (Composite, S-Video - PAL or NTSC)
DVI Supervisor (Option - Terminal Redundance)
DVI Signal
RS-422
Power Control Data (RS-422)
Power Control Board (SSR Board)
POWER DISTRIBUTION BOX
AC Source
Console PC
Terminal PC- Slave (Option - for Redundance)
Terminal PC - Master
Lan Cable
Hub Switch
CONTROL ROOM
ALGE
TIMING

We can offer the following models:

Type	Pixel Pitch (mm)	Colors	LED per Pixel	Resolution per m²
Indoor				
KI-MVS-M4F1	4,0	68,719 Millionen	1RGB	62.500
KI-MK-MS-N06R1	6,0	R	1R	27.778
KI-MK-MS-N06D1	6,0	1,073 Millionen	1R,1YG	27.778
KI-MVS-M6F9	6,0	68,719 Millionen	1R,1G,1B	27.778
KI-MVS-M8Fx	8,0	68,719 Millionen	1R,1G,1B	15.625
KI-MVS-M10Fx	10,0	68,719 Millionen	1R,1G,1B	10.000
Outdoor				
KI-MVS-M8F1	8,0	68,719 Millionen	1R,1G,1B	15.625
KI-MVS-M10F1	10,0	68,719 Millionen	1R,1G,1B	10.000
KI-MVS-M125F1	12,5	68,719 Millionen	1R,1G,1B	6.400
KI-MVS-M14F1	14,0	68,719 Millionen	1R,1G,1B	5.102
KI-MK-MS-U16A1	16,0	Amber 256	2A	3.906
KI-MK-MS-U16D1	16,0	R/G each 256	1R,1G	3.906
KI-MVS-M16V	16,0	68,719 Millionen	1R,1G,1B	3.906
K-MVS-U20A1	20,0	Amber 256	4A	2.500
K-MK-MS-U20D1	20,0	R/G each 256	2R,1G	2.500
K-MVS-M20FV	20,0	68,719 Millionen	2R,1G,1B	2.500
K-MK-MS-U22A1	22,0	Amber 256	4A	2.066
K-MK-MS-U22D1	22,0	R/G each 256	2R,1G	2.066
K-MVS-M22F1	22,0	68,719 Millionen	2R,1G,1B	2.066
K-MK-MS-U25A1	25,0	Amber 256	4A	1.600
K-MK-MS-U25D1	25,0	R/G each 256	2R,1G	1.600
K-MVS-M25F1	25,0	68,719 million	2R,1G,1B	1.600
K-MK-MS-U28A1	28,0	Amber 256	6A	1.276
K-MK-MS-U28D1	28,0	R/G each 256	4R,2G	1.276
K-MVS-M28F1	28,0	68,719 Millionen	4R,2G,2B	1.276
KI-MK-MS-U32A1	32,0	Amber 256	8A	977
KI-MK-MS-U32D1	32,0	R/G each 256	4R,2G	977
KI-MVS-M32F1	32,0	68,719 Millionen	4R,2G,2B	977

Indoor models have a smaller pitch, no sun protection against direct sun light and are not sealed water proofed at the front. Because the indoor boards are not made for operation in direct sunlight, they do not have the same luminosity as the outdoor models.

Outdoor models have sun blockers (to protect the board against direct sun light) and are sealed water proofed at the front.

We use the following code for the LED color:

R .....Red
G .....Green
B.....Blue
YG...Yellow-Green
A.....Amber

Control PC and Software:
Each LED-Board has a 100 m fibre optic cable included in the control PC. The control PC has the standard software to operate the display board. Features like schedule, operation of more display boards, etc. are included in the software.

Other Specification:

Display: Text, Graphic, Animation, Video
Video Input: S-Video, Composite, DVI, VGA. SDI, HDTV
Video Format: NTSC and PAL
Display Speed: 800 fps
Pixelsharing: all full color modells

Modules:

We can offer two different modules:

a) **Aluminium Module:**
The aluminium case has the advantage that it cannot rust. It is recommendable if the display board is sometimes moved, or if it is under heavy duty.

b) **Mobile Module:**
This case is specially made for portable boards. The setup is simple and fast. Only a power cable has to be connected from the outside. The communication between the modules proceeds via fibreoptic cables.

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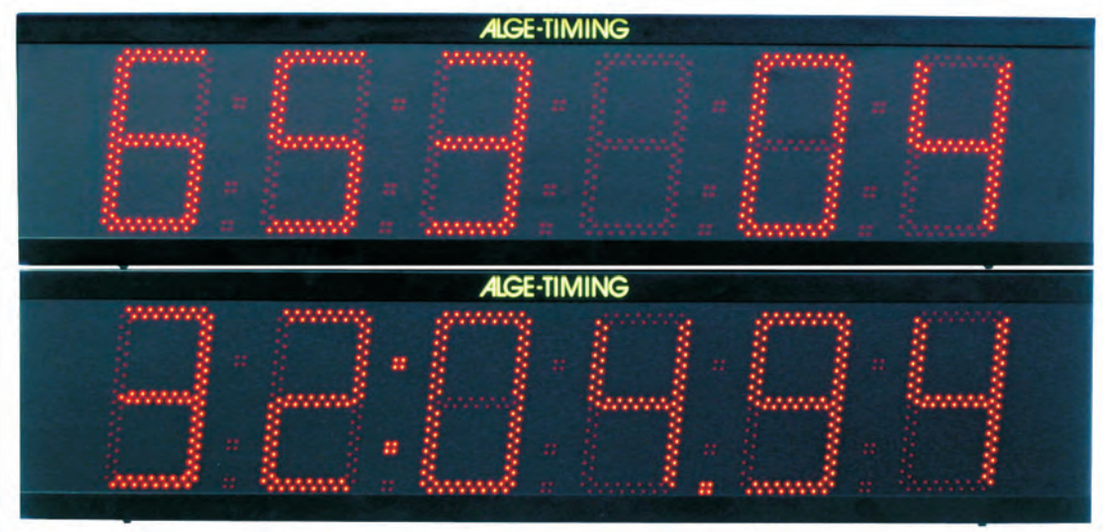
The Multifunctional LED-Display Board

ALGE D-LINE

The ALGE D-LINE series is very universally usable numeric display board. It is possible to control it directly from ALGE timing devices as well as from other devices by RS 232 interface.

Additionally, it is possible to show the time of day or use it as simple stand alone stopwatch. If a DCF or GPS radio receiver and a temperature sensor is purchased with the LED display board, during a sports event the run-time is shown, otherwise the board shows alternatively time and/or temperature.



ALGE offers models for indoor and outdoor. The difference lies mainly in the type of LED used. For outdoor purposes the LED must be a lot brighter especially if the sun shines directly on the board.

The following figure heights are in the ALGE program:

Indoor: 57, 100, 150, 250, 450, 600, 1000 and 1500 mm
Outdoor: 150, 250, 450, 600, 1000 and 1500 mm

The standard model has 6 digits. Of course, we also offer other configurations.

The advantage of LED display boards compared to other display boards is the affordable price and low weight. Moreover, it is possible to use the board also in dark areas (e. g. dark roof of a stadium).

The power for the board is supplied either by mains (100-240 VAC) or an external 12 V car battery.

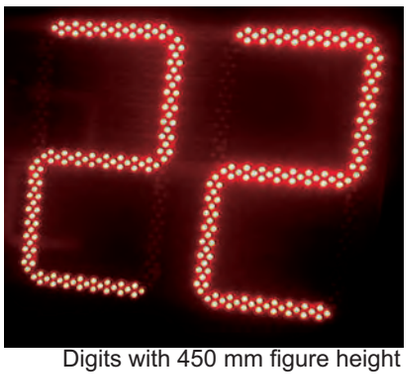
Excellent visual display board for data like:

- Times
- ID-number
- Rank
- Speed
- Width
- Height
- Marks
- Points
- Weight
- Price
- Temperature
- Departure Time
- Stock Exchange Courses
- etc.

ALGE TIMING

Technical Data:

- LED-numeric 7-segment figures with 3 points between the figures
- Internal clock
- Internal push button
- RS232 compatible interface
- Connections:
  - Banana socket for data (RS 232c)
  - Banana socket for external push button
  - Amphenol socket (4-pin) for data or power supply (12 VDC)
- Built-in power supply (100 - 240 VAC, 50-60 Hz)
- Fastening:
  - 2 hangers at the top
  - $^{3}/_{8}$ " thread for tripod
- Black aluminium case with red Plexiglas front
- Operating temperature: -20° to 60°C



Digits with 450 mm figure height

Digits with 250 mm figure height

Digits with 150 mm figure height

Digits with 100 mm figure height

Digits with 57 mm figure height

Accessory:

- DCF-radio receiver
- GPS-radio receiver
- Temperature sensor (max. 2 sensors)
- Humidity sensor
- Ethernet Socket (for time synchronization through Ethernet)
- RS 485 interface
- Clip panel e. G. min., sec., 1/100 (for size starting with 150 mm figure height)

	Amount of Digits	Figure-height	Height	Width	Depth	Distance between hangers	Maximal current on 12V side	Reading Distance
		[mm]					[A]	[m]
Indoor Models:								
D-LINE57-I-6-E0	6	57	130	500	60	200	0,9	25
D-LINE100-I-6-E0	6	100	180	800	60	500	0,9	50
D-LINE150-I-6-E0	6	150	250	956	60	556	0,9	75
D-LINE250-I-6-E0	6	250	350	1493	60	1093	2,9	125
D-LINE450-I-6-E0	6	450	600	2490	60	2090	4,5	225
D-LINE600-I-6-E0	6	600	800	3400	60	3000	5,9	270
Outdoor Models:								
D-LINE150-O-6-E0	6	150	250	956	60	556	0,9	75
D-LINE250-O-6-E0	6	250	350	1493	60	1093	2,9	125
D-LINE450-O-6-E0	6	450	600	2490	60	2090	4,5	225
D-LINE600-O-6-E0	6	600	800	3400	60	3000	5,9	270

Other configurations than stated above are possible on request!

Sample of the order code:

D-LINE57-I-6-E0

- Blanks (empty digit) between the digits
- Amount of digits, in this case 6 digits
- I = Indoor model, O = Outdoor model
- Figure height in mm, in this case 57 mm
- Product describtion

D-LINE150-O-6-E0

D-LINE250-O-6-E0

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GAZ4

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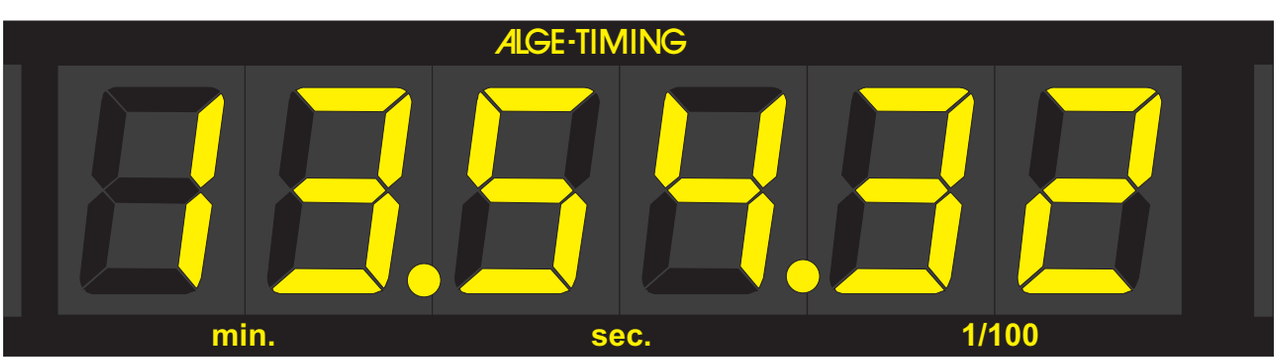
TIMING

In the focus of events

ALGE Display Board GAZ4

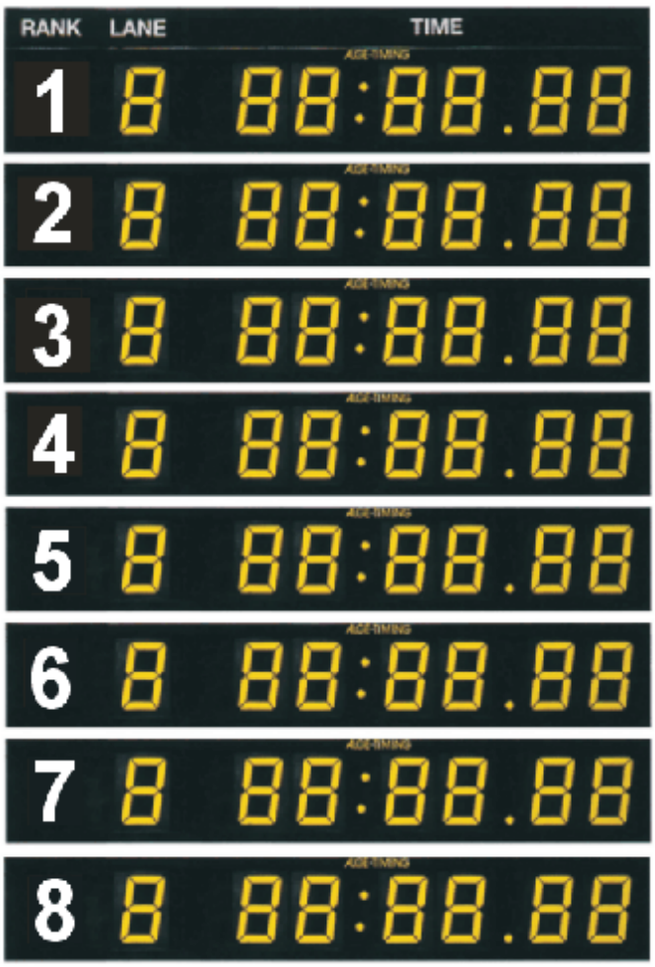
Figure height 150 mm, 250 mm, 450 mm

- You want to display figures clearly and widely visible?
- You want to use the display board for outdoor use (all weather conditions)?
- For example numerical data as time, speed, width, height, marks, points, weight, price, winning numbers, rates of prices, and so on.
- ALGE display boards have outstandingly stood the test under roughest conditions and in large quantities.



The new generation GAZ4 has the following outstanding features:

- Direct connection to ALGE timing units by a two lead data wire or radio
- Manual input from the „Handy Terminal“ ALGE Timy (e. g. points, ratings)
- Counter together with ALGE Timy (e. g. for turnstile)
- All purpose application by connecting an RS 232 data output (e. g. from a PC or an electronic scale)
- Operation is possible when charging the display board
- Switch for three different display-configurations in timing:
  number / rank, minutes - seconds - 1/100 seconds, hours - minutes - seconds
- Switch to adjust address or special function
- Two or more display boards can be lined up in a row (e. g. one display board for timing and another for number and ranking)
- Up to ten lines can be stacked for a huge ranking display board
- An integrated electronic clock allows usage of the display board as a day time clock or as a stop watch (input of time respectively start-stop signal and reset signal with a hand switch)
- Backwards running clock (countdown) to display the time of play (input of time to play and time-out by hand switch)
- Optimal legibility even in direct sunlight
- Long life because of the usage of bistabile seven-segment displays in strong aluminium-frame with plexiglas pane
- Best running safety because of CMOS technology and quality by ALGE-TIMING
- Low power consumption as energy is only required at the moment of switching
- Three different ways to supply the display board:
  - from a 12 V car battery
  - from the mains (PS4 or PP4)
  - from internal rechargeable batteries (Pp4)



e.g. Ranking board for Swimming or Athletic

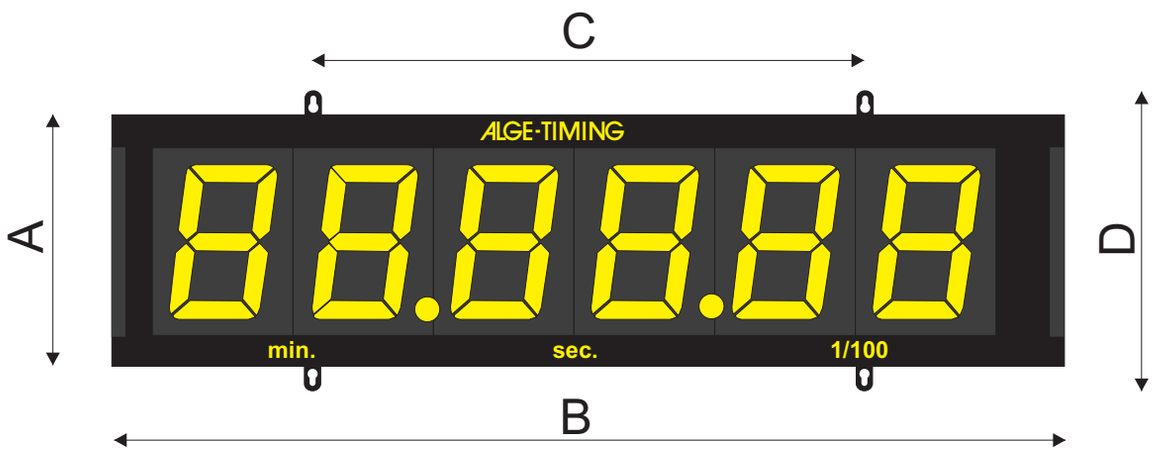
e.g. Tennis score board

Terminal Timy

ALGE TIMING

Technical Information and facts:

- Electronic system: most modern µP-Technology in CMOS-technique and watch-dog
- Display elements: bistable seven-segment-display, yellow on black ground (little power consumption, best legibility, best running safety)
- Casing: Aluminium case, plastic-covered (black) with pane of plexiglas for outdoor usage
- Interface: signal compatible to RS 232 (RS 485 is prepared)
- Time basis: quartz oscillator 9.216 MHz
- Operative timing range: -25 to +50°C (-13° to +122° K)
- Power supply:
  - Direct supply: 11 to 20 VDC / 2.5 A
  - Power supply PS4: Net device with connection to mains, built into GAZ4
    230 V / 50 Hz (or 115 V / 60 Hz)
  - Powerpack PP4: Net-charging-device with rechargeable batteries built into GAZ4
    external supply from mains: 230 V / 50 Hz (or 115 V / 60 Hz)
    Charging time for NiCad: 14 hours



Standard Typ	Weight (kg)	(mm) A	B	C	D	Depth	Reading Distance in Meters *	Operation Time in Hours **
GAZ4 515	12	290	956	556	352	100	75	60
GAZ4 615	13	290	956	556	352	100	75	60
GAZ4 525	21	393	1493	1093	455	100	125	20
GAZ4 625	22	393	1493	1093	455	100	125	20
GAZ4 545	45	664	2490	2090	726	120	225	11
GAZ4 645	48	664	2490	2090	726	120	225	11

Standard configurations - other configurations on request
* reading distance by DIN 1450
** Operation Time: in clock mode with running second (Powerpack PP4 fully charged at 20°C)

Order Example:
GAZ4 645 + PP4

- Power Supply (e.g. PP4 or PS4
  - PP4 Powerpack (built-in rechargeable battery and charger)
  - PS4 Power Supply (built-in charger)
- Figure Height of Digits
- Amount of Digits
- Display Board Type

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Info LED Matrix Display Board D-RTNM

The D-RTNM is a universal single colour LED matrix board. It is usable as timing display board, message board or for advertisement purposes. The display can show online preloaded messages or those from the internal memory. Also small animated films can be shown on the board. The lightweight rugged aluminium case allows an easy transport of the board.

The outdoor version is excellently readable even at direct sunshine. If used at night or at rainy days, it is possible to select between 100 different brightness levels to reach the best performance of the display at any light condition.

Driving is non-multiplexed, that means that these displays will last longer and glow brighter than standard multiplexed displays. Further this function is very important e. g. if used with TV, because the display board will not flicker on the TV screen.

- Matrix display board with red LED
- Models with 3 or 4 LED per pixel
- Models for outdoor or indoor use
- Standard models with 16 pixel height and 96 or 160 length
- Universal use by Ethernet, RS485 and RS 232 interface.
- Internal memory of 4 MB to store pictures, logos, animation or competitor lists. It is possible to run the board from the internal memory.
- Possibility to operate the board directly from the terminal that operates ALGE-Multisport score boards
- Possibility to get the ID-number, time (also running time) and rank directly from ALGE timing devices (e.g. TdC 8001). Additionally it is possible to store the names and e. g. club or nation in the internal memory of the board.
- Adjustment of brightness in 100 levels
- Non-multiplex controlled LED for longer life time and higher brightness
- Built-in power supply (100 to 240 VAC)
- Rugged aluminium case with red plexiglas front

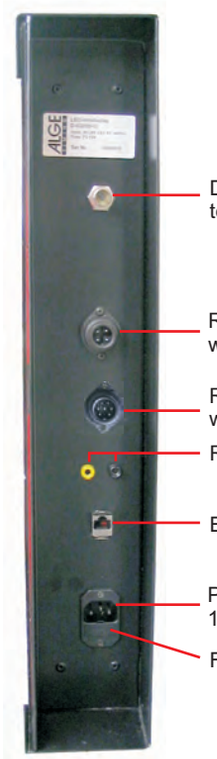
Options:

- Custom designed models with different pixel resolution on request
- Models with 7 LED per pixel
- Different colours (yellow, green, blue or white)
- Connection for temperature sensor
- Connection for DCF or GPS synchronisation (exact external time signal)

Display board controlled directly from ALGE TdC 8001

Info LED Matrix Display Board D-RTNM

Example of a customer designed board for horse racing



DCF, GPS or temperature sensor (all optional)

RS 232 interface with 12 VDC output

Rs485 with 12 VDC output

RS 232 input (e.g. timing device)

Ethernet

Power supply 100 - 240 VAC

Fuse

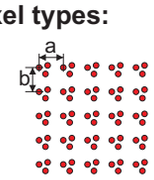
Sample of the order code:

D-RTNM-P3-16x96-I

- I = Indoor, O = Outdoor
- Horizontal resolution in pixel
- Vertical resolution in pixel
- Pixel with 3 LED (Alternative: 4 or 7 LED)
  - P3 - Pixel with 3 LEDs, H/V pitch 21.6 / 21.6 mm
  - P4 - Pixel with 4 LEDs, H/V pitch 20.7 / 25.4 mm
  - P7 - Pixel with 7 LEDs, H/V pitch 36.8 / 46.4 mm
- Product discribtion

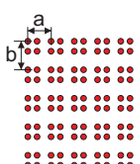
Pixel types:

P3



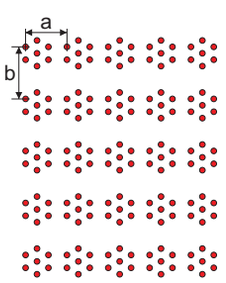
a = 21.6 mm
b = 21.6 mm

P4



a = 20.7 mm
b = 25.4 mm

P7



a = 36.8 mm
b = 46.4 mm

Model	LED per pixel	Vertical pixel	Horizontal pixel	Vertical pixel pitch (mm)	Horizontal pixel pitch (mm)	Length (mm)	Height (mm)	Depth (mm)	Typical use
D-RTNM-P3-16x96-I	3	16	96	21.6	21.6	2300	400	97	indoor
D-RTNM-P3-16x160-I	3	16	160	21.6	21.6	3700	400	97	indoor
D-RTNM-P4-16x96-I	4	16	96	20.7	25.4	2200	500	97	indoor
D-RTNM-P4-16x160-I	4	16	160	20.7	25.4	3500	500	97	indoor
D-RTNM-P3-16x96-O	3	16	96	21.6	21.6	2300	400	97	outdoor
D-RTNM-P3-16x160-O	3	16	160	21.6	21.6	3700	400	97	outdoor
D-RTNM-P4-16x96-O	4	16	96	20.7	25.4	2200	500	97	outdoor
D-RTNM-P4-16x160-O	4	16	160	20.7	25.4	3500	500	97	outdoor

Other models on request!

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FOOTBALL SCORE BOARD

With this modern electronic score board for football (soccer) you always provide your spectators with the latest game information. This score board is also the ideal place to show the advertisement of one or more of your sponsors.

- complete system consisting of control unit ALGE-Timy and score board with integrated power supply
- electromagnetic 7-segment digits with a figure height of 45 cm (readable up to about 200 m (650 ft). The figures have a reflective yellow on black ground to guarantee the best readability also in direct sunlight.
- shows score and game time (the different types have different configurations)
- simple operation
- model FA6xx, FB and FL can show the time of day if not operated for a game
- simple installation, 4 wire cable (or optional radio) between score board and operation unit
- ALGE display boards have proven their reliability in many installations worldwide

ALGE TIMING

Score Board Models

FA425 and FA445

FA625-T and FA645-T

FA625-G and FA645-G

FB645

FB845

FL845

FL045

Control Unit Timy

Control Unit for the Score Board with the following features:

- shows the time of day (not for typ FA425 and Fa445)
- game time counting up or down (adjustable)
- shows the score
- timeout possible (stops the running time)
- display simulates the score board (to operate it without having a view on the board)
- connection between score board and control unit possible with cable or optional radio

Measurements

Typ	length L (mm)	height H1 (mm)	height H2 (mm)	width T (mm)	weight (kg)/(lb)
FA425	1493	475	393	110	21 / 46
FA625	1953	475	393	110	28 / 62
FA445	2490	824	664	140	60 / 132
FA645	3290	824	664	140	80 / 176
FB645	3322	2022	xxx	130	100 / 220
FB845	3322	2022	xxx	130	100 / 220
FL845	3322	2022	xxx	130	100 / 220
FL045	3322	2022	xxx	130	140 / 330

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Football Score Board FB3

ALGE can offer a wide spectrum of LED Football (Soccer) score boards. The boards are suitable for small indoor facilities up to giant football stadiums. We can offer figure heights from 30 cm to 150 cm (11 to 59 inch).

The red LED dispose of best visability at all conditions. The brightness will be changed according to the light conditions, which means at bright sunshine the LED is bright but at night the LED is less bright. The board is controlled from a terminal connected by cable or radio (optional).

The Scoreboard FB3 can be expanded with the following components:

Temperature Sensor (TS): It shows time and temperature if the board is not in use for a match
Light Sensor (LS): The brightness of the LED is controlled automatically
Radio Time Signal (DCF): The time of day is always exact and it switches automatically between summer and winter time

Models with Text Features:

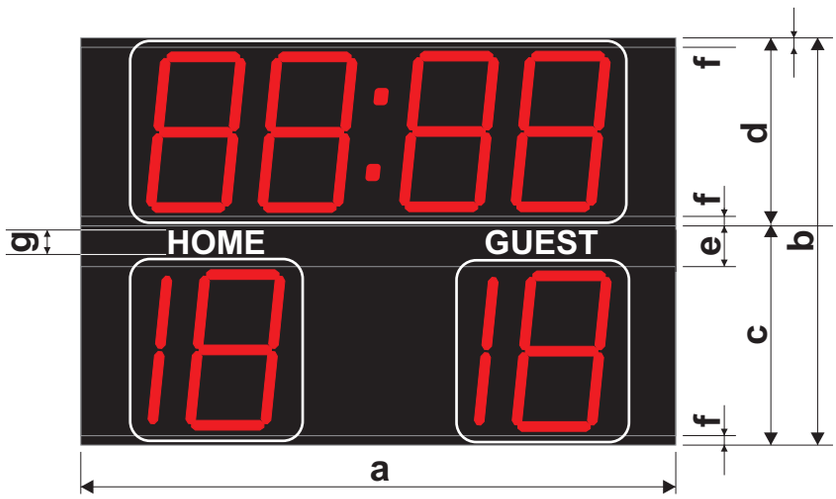
It is possible to combine the score board with a matrix board to show text (name of club), advertising, etc. Different matrix boards D-RTNM are available.

RTNM Px-7(8)xn

RTNM Px-16xn

ALGE TIMING

Models and Measurements



Models	FB3-19-300	FB3-19-450	FB3-19-600/450	FB3-19-600	FB3-19-1000	FB3-19-1500
Figure Height of Time in mm	300	450	450	600	1000	1500
Figure Height of Score in mm	300	450	600	600	1000	1500
Length (a) in mm	1000	1900	2000	2490	3800	5200
Height (b) in mm	750	1400	1600	1800	2700	4000
Time Modul Height (c) in mm	400	600	600	800	1200	1800
Score Module Height (d) in mm	450	800	1000	1000	1500	2200
Caption Overlap (c) in mm	60	240	280	280	360	460
Top / Bottom Overlap (e) in mm	40	40	40	40	60	60
Caption Height (g) in mm	50	150	200	200	300	400
Suitable Matrix Display Board 1 line, 7 pixel height	RTNM P3 7x56	RTNM P4 7x80	RTNM P4 7x88	RTNM P4 7x104	RTNM P7 7x96	RTNM P7 7x128
Suitable Matrix Display Board 1 line, 8 pixel height	RTNM P3 8x56	RTNM P4 8x80	RTNM P4 8x88	RTNM P4 8x104	RTNM P7 8x96	RTNM P7 8x128

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Ballspeed BSS

Speed Measurement for Soccer, Football or Rugby

Do you want to measure the kicking strength of your team?
Do you want to have additional income during the matches?
Do you want to offer your spectators an attractive program?

If you answer one of the above questions with "YES" you need to check out the ALGE Ballspeed system. It is easy to install, the measurement is exact, and everybody can see the result on the display board. It needs very limited space and it has an internal power supply with rechargeable batteries.

How does "Ballspeed" measure the speed of the ball?

You set up two photocells in a distance of 1 m. The distance is exactly given by the fixing bars. The first photocell is a standard ALGE RLS1n. The second photocell has three photocells built into one case. This means you measure also the speed of the ball, if the ball does not move flatly.
The ball will be set up before the first photocell. When you kick the ball it triggers both photocells. The Comet will measure the time and calculate the speed. The speed will be shown on the display board.

ALGE TIMING

Ballspeed Components:

All Ballspeed Systems have the following components:

- Photocell RLS1n
- Photocell RLS3c
- Mounting set to mount the photocells

From the measuring device and the display board you can choose between two models:

- Measuring Device Timy XE or Timy PXE
- Display Board GAZ4 315 with Powerpack or Display Board D-LINE150-O-3-E0

Ballspeed Models:

Ballspeed BS-L-XE:	Timy XE and Display Board D-LINE150-O-3-E0
Ballspeed BA-L-PXE:	Timy PXE and Display Board D-LINE150-O-3-E0
Ballspeed BS-G-XE:	Timy XE and Display Board GAZ4 315+PP4
Ballspeed BS-G-PXE:	Timy PXE and Display Board GAZ4 315+PP4

Measuring Device Timy XE:

Speed measuring device with universal software (timing is possible as well). Additionally the device stores all measuring results and has a RS232 or USB interface for communication with PC.

Measuring Device Timy PXE:

Speed measuring device with universal software (timing is possible as well). An internal printer logs all the measured values. Additionally the device stores all measuring results and has an RS232 or USB interface for communication with PC.

Display Board D-LINE150-O-3-E0:

Display Board with 3 red LED figures, figure height 15 cm, maximal reading distance about 70 m, best readability also at direct sunlight, rugged outdoor aluminium case. Shows the ball speed. Complete with integrated power supply (100 - 240 VAC).

Display Board GAZ4 315:

Display Board with 3 bi-stable figures, figure height 15 cm, maximal reading distance about 70 m, best readability also at direct sunlight, rugged outdoor aluminium case. Shows the ball speed. Complete with integrated powerpack (built-in battery and charger).

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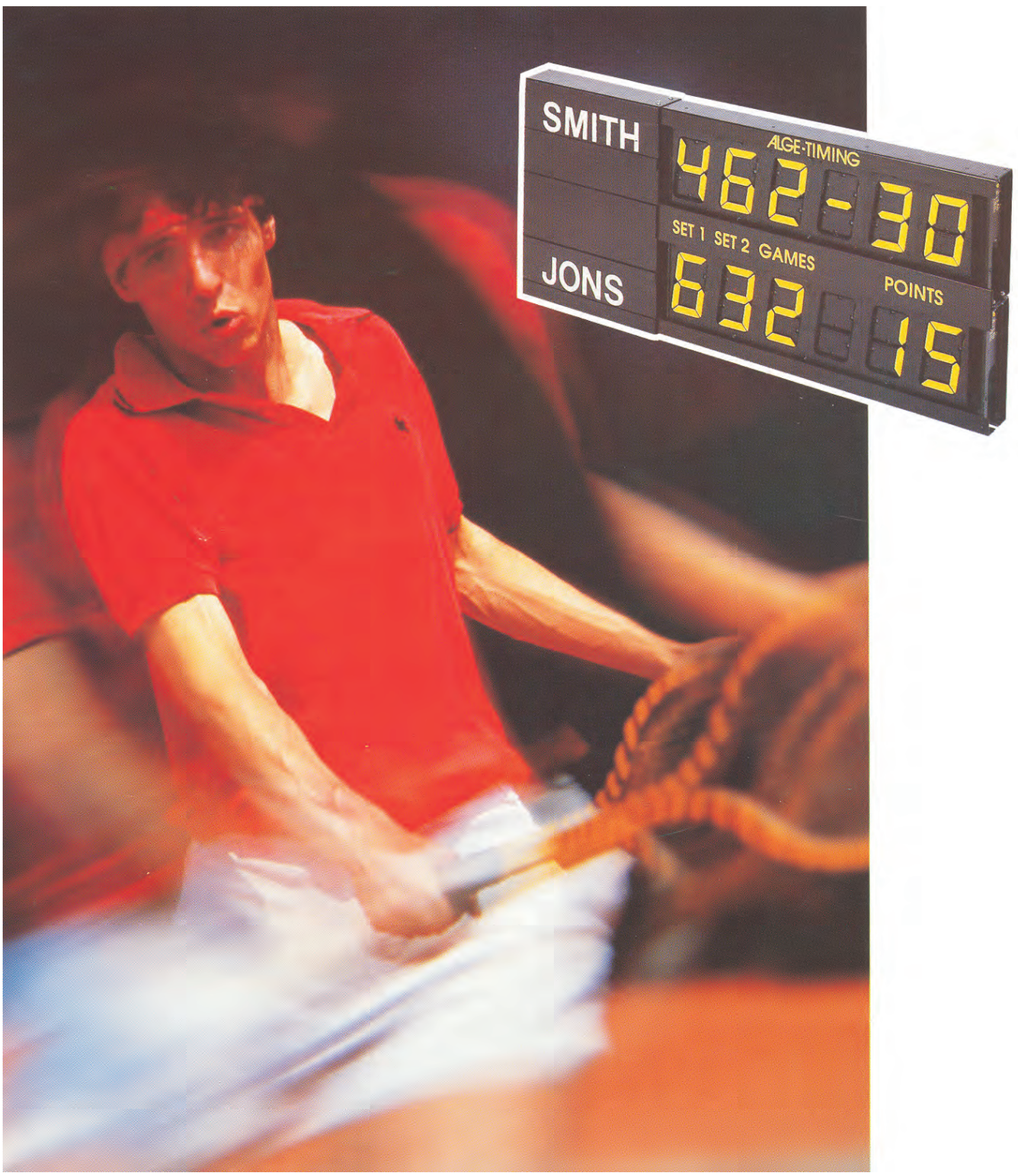
Tennis
Score Board



ALGE
TIMING

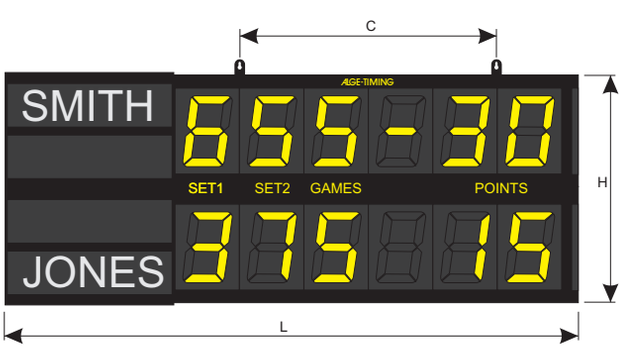
Tennis Score Board:

The Tennis Score Board consists of two ALGE-GAZ4 display boards mounted in together with a name plate case with slots to insert a plate (player names e. g. with magnetic letters). This rugged unit can be fastened to a base. The score board is controlled by the terminal Timy and can be operated from any distance using two conductor telephone wires. The score board features all the latest electronic advances and is weather resistant. The score board can be powered by ist internal batteries or plugged to AC power continuously.

Features include:

- Simple operation
- Excellent visibility even in sunlight or under flood lights
- The last 20 scores are stored in the memory of the terminal, so that a correction can easily be made.
- Tie breaks and open ended sets can be displayed
- Player names can be applied to the removable panels with magnetic letters or you can insert your own style of signs
- Two digit heights are available, 15 or 25 cm (6 or 9 inch)
- Dual power capability with battery or AC
- All digits and electronics are accessible by sliding the front Plexiglas panel open

Terminal
Timy

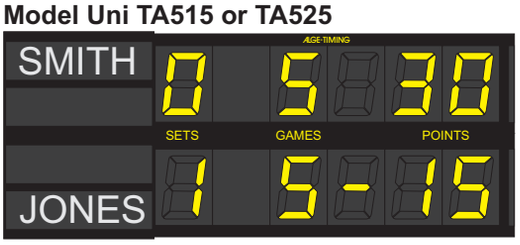


Technical Data:

- Score board and terminal are controlled by CMOS microprocessors.
- The digits are bi-stable, 7-segment, electromagnetic modules, with highly visible yellow vanes. They are rated for over 60 million operations and have low power requirement.
- The case is plastic coated aluminium with hanging brackets on the back. The plexiglas front panel can be removed for easy repair and cleaning.
- High temperature range from -25 to 50°C (-20 to 120°F).
- Built-in rechargeable NiCd battery with charger for either 240 VAC or 120 VAC power.
- The terminal is powered by battery and/or direct from score board.

Score Board Configuration:

Model Uni TA515 or TA525



Model 3 SetTA615 or TA625

Model 5 Set TA815 or TA825

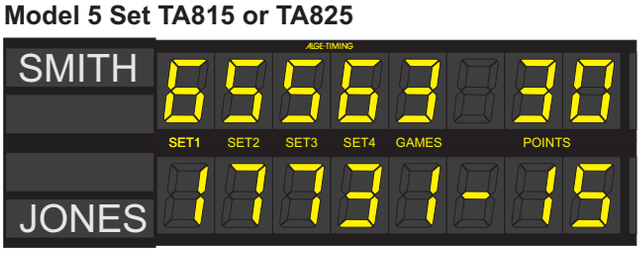


	Figure Height 15 cm (5.9")			Figure Height 25 cm (9,84")		
	Uni TA515	3 Set TA615	5 Set TA815	Uni TA525	3 Set TA625	5 Set TA825
L	1530	1530	1960	2265	2265	2960
H	590	590	590	796	796	796
c	556	556	990	1093	1093	1793
depth	100	100	100	100	100	100
all measurements in millimeter						

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ALGE D-SAT

Time Temperature Display Board

The D-SAT is a multi-function electronic clock that provides a precise and elegant time display, using bright LED characters with an unrivaled flexibility of operation in the most demanding time applications. Indoor and outdoor models are available from 57 mm up to 600 mm digit height.

- 57,100, 150, 250, 450 or 600 mm digit height.
- 4 or 6 digits
- Standard digit color: red - Option: yellow, green, blue or white
- Indoor or outdoor models (visible in direct sunlight)
- Displays time, date and (optionally) temperature or relative humidity
- 2 alarm programs, each program with up to 50 alarm times, relay contact 1A (optional). Alternatively displays time, date and temperature with user selectable periods.
- 12 or 24 hour time display format
- Time adjustment: push button or external synchronization: DCF, GPS, Ethernet
- High precision time by internal real time clock and therefore no need to adjust the time after a power failure. Stand-alone operation with a typical accuracy of ±4 minutes/year at 25°C.
- Automatic brightness control for outdoor mounting (optional)
- Seasonal time correction (summer time - winter time).
- More clocks can be connected in a system. One clock is master and others are slaves.
- Average LED life time of 100,000 hours. LED displays are very reliable.
- Plastified black aluminium case (other colors are possible) for all weather conditions (no oxydation)
- Surface wall mounting for single-sided models and ceiling suspensions for double-sided models (other mounting on demand).
- Power supply for 100 to 240 VAC - 50/60 Hz

Model	Case size	Character height	Viewing distance
SAT57-4 SS	400 x 130 x 60 mm	57 mm x 4	25 m
SAT57-4 DS	400 x 130 x 90 mm	57 mm x 4	25 m
SAT57-6 SS	500 x 130 x 60 mm	57 mm x 6	25 m
SAT57-6 DS	500 x 130 x 90 mm	57 mm x 6	25 m
SAT100-4 SS	600 x 180 x 60 mm	100 mm x 4	50 m
SAT100-4 DS	600 x 180 x 90 mm	100 mm x 4	50 m
SAT100-6 SS	800 x 180 x 60 mm	100 mm x 6	50 m
SAT100-6 DS	800 x 180 x 90 mm	100 mm x 6	50 m
SAT150-4 SS	730 x 250 x 60 mm	150 mm x 4	75 m
SAT150-4 DS	730 x 250 x 90 mm	150 mm x 4	75 m
SAT150-6 SS	956 x 250 x 60 mm	150 mm x 6	75 m
SAT150-6 DS	956 x 250 x 90 mm	150 mm x 6	75 m
SAT250-4 SS	1100 x 350 x 60 mm	250 mm x 4	120 m
SAT250-4 DS	1100 x 350 x 90 mm	250 mm x 4	120 m
SAT250-6 SS	1493 x 350 x 60 mm	250 mm x 6	120 m
SAT250-6 DS	1493 x 350 x 90 mm	250 mm x 6	120 m
SAT450-4 SS	1900 x 600 x 60 mm	450 mm x 4	200 m
SAT450-4 DS	1900 x 600 x 90 mm	450 mm x 4	200 m
SAT450-6 SS	2490 x 600 x 60 mm	450 mm x 6	200 m
SAT450-6 DS	2490 x 600 x 90 mm	450 mm x 6	200 m
SAT600-4 SS	2490 x 800 x 60 mm	600 mm x 4	250 m
SAT600-4 DS	2490 x 800 x 90 mm	600 mm x 4	250 m
SAT600-6 SS	3400 x 800 x 60 mm	600 mm x 6	250 m
SAT600-6 DS	3400 x 800 x 90 mm	600 mm x 6	250 m

Sample of order code:

D-SAT250-6-SS-I-M-T-GPS-A

- 250 — 250mm character height
- 6 — 6 digits
- SS — single side
- I — indoor model
- M — master mode
- T — temperature sensor
- GPS — GPS time synchronisation
- A — Alarm output

D-SAT-Serie:

57, 100, ... - height of digits
4, 6 - number of digits
SS, DS - single-sided, double-sided
I, O - indoor or outdoor models

Options:

M, S - master, slave mode
T - temperature sensor
RH - relative humidity sensor
GPS - GPS time synchronisation
ETH - Ethernet LAN time synchronisation
DCF - radio time synchronisation
A - alarm output
LS - light sensor for brightness control

ALGE TIMING

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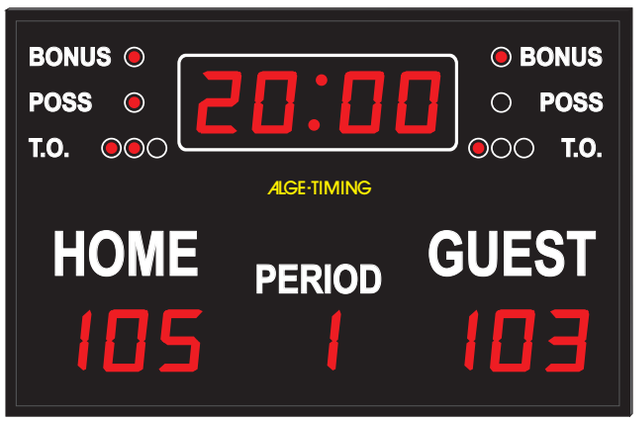
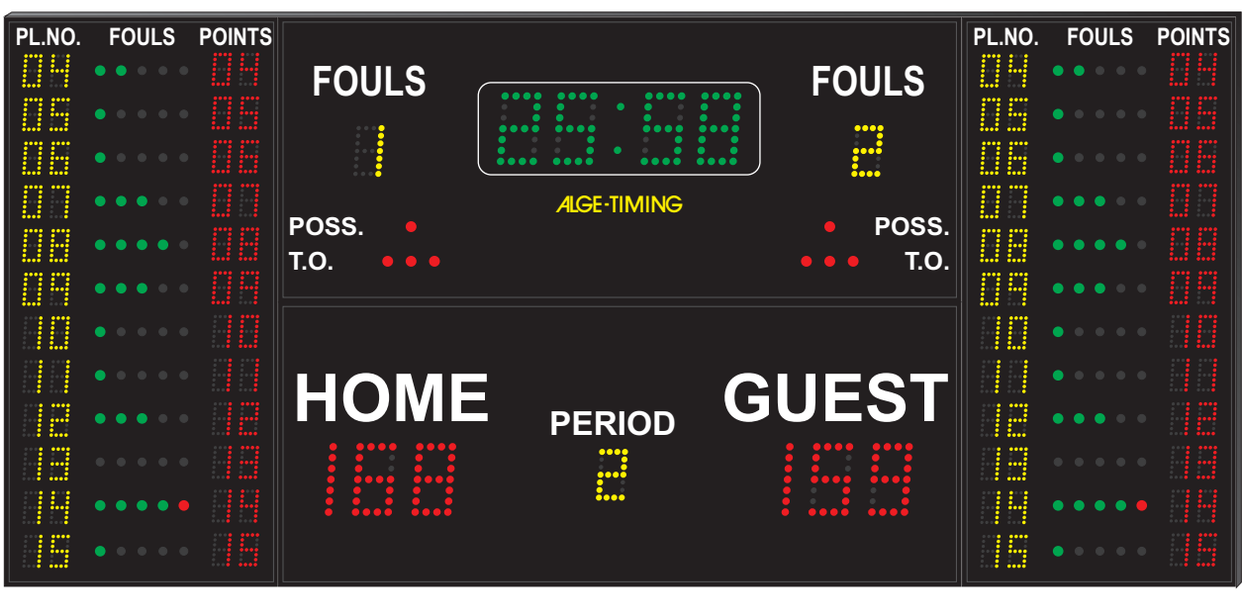
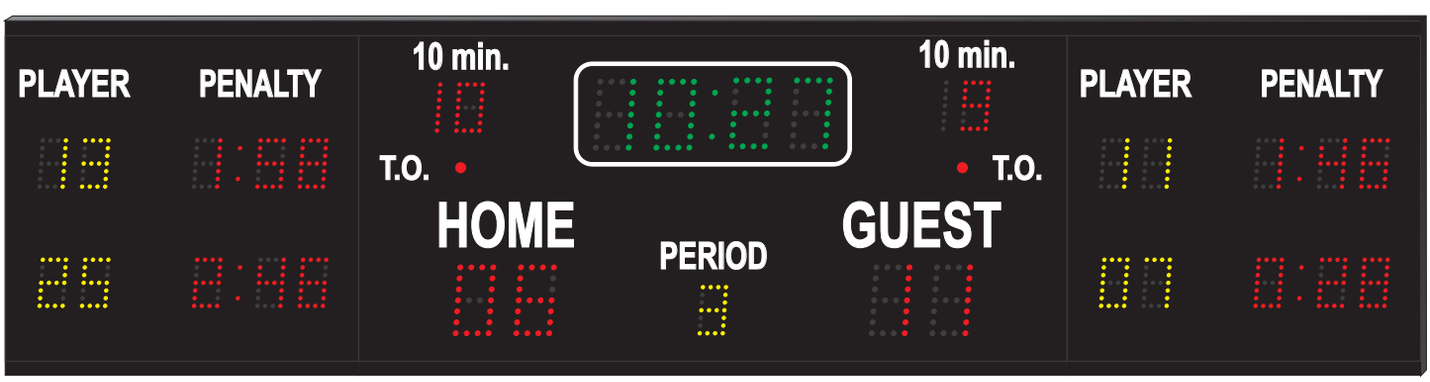


Multisport Score Boards





ALGE TIMING

ALGE-TIMING offers a full range of multisport scoreboards. The standard range of scoreboards covers almost all ball games. All Multisport-Scoreboards are for universal use in several sports like basketball, handball, volleyball, tennis, badminton, table tennis, hockey, football (soccer), etc.

Further we offer special scoreboards made for e. g. judo, karate, teakwondo, wrestling, weightlifting, soccer, tennis.

All scoreboards work with cable but on request we can also offer radio controlled scoreboards.

For our Multisport-scoreboards we are also able to make customer-specific scoreboards. Also extras like text fields for information, team or player names are available. Please contact an ALGE-dealer to design your personal scoreboard!

Indoor or Outdoor Scoreboards:

All scoreboards of the D-S series are available for indoor use only. The other models are normally for indoor use (unless specified differently) but it is possible to also produce them for outdoor use. For outdoor use we can use only red LED (less expensive) or mixed digit coulors.

Digits:

The scoreboard models have different digit heights. The 10 cm digit are solid LED 7-segment digits. They can be used only for indoor use. The digits with 14, 20 and 30 cm digit height are made of LED clusters.

Readability:

To select the ideal scoreboard you need to know which sports are important for the facility and the maximal reading distance. The scoreboard(s) should be easily readable for spectators from any spot of the sports facility.

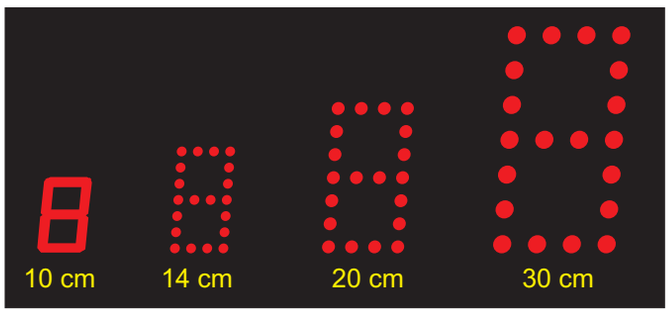


Figure Height	maximal reading distance
10 cm	about 50 m
14 cm	about 70 m
20 cm	about 100 m
30 cm	about 150 m

Cable or Radio Data Transmission:

ALGE is able to offer both, cable and radio solutions. The standard solution always offers the cable solution, but only a short cable for test use is included.

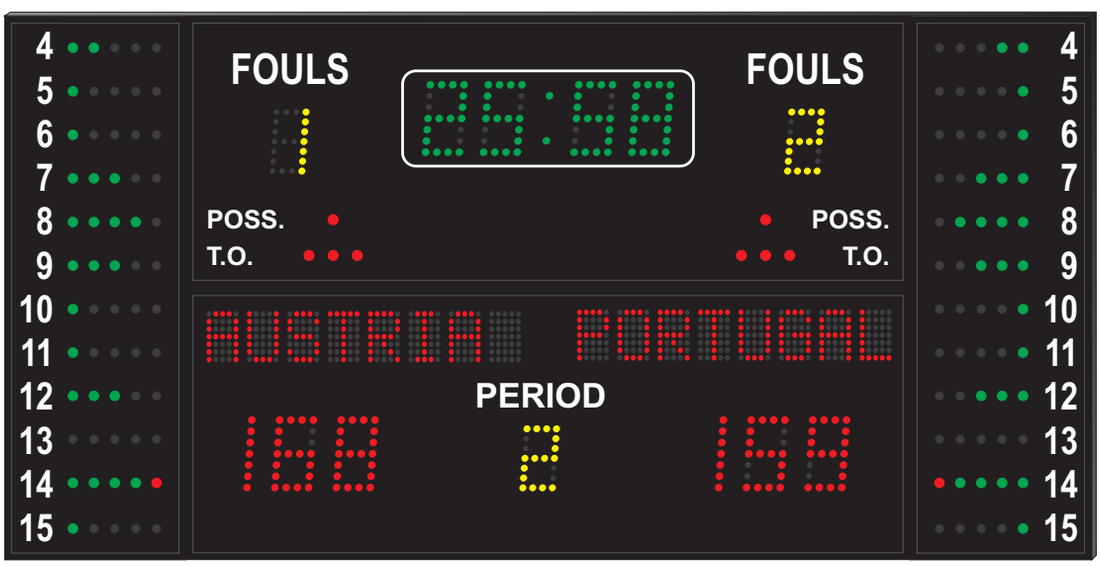
For new facilities we recommend to use cable. Cable is more reliable, since it is difficult to disturb a cable.

Radio is mainly selected for existing facilities, where it is difficult to install a cable from the operation console to the scoreboard. Please notice, that even for radio solutions you need mains for the operation console and for the scoreboard.

Team Name Modules:

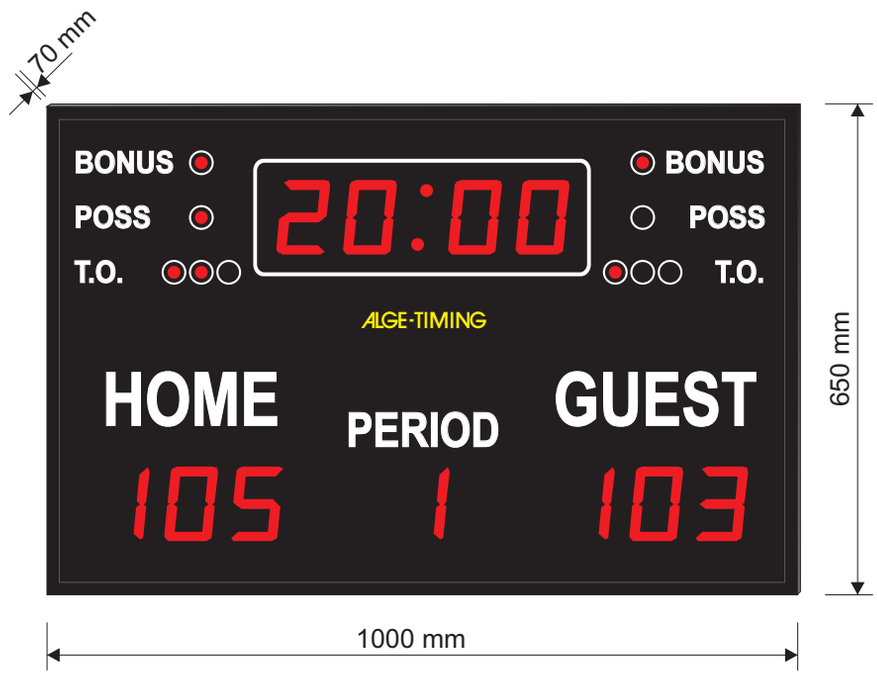
We can offer these alphanumeric modules with 7 to 9 characters and different figure heights. Furthermore, we offer standard character fields with 7 x 5 dot or 8 x 5 dot (for special fonds).

Model	Size(cm)	Displays
TN7-7x5-15	2 boards 90 x 15	2 x 7 characters, 7 x 5 dots, dot 3 LEDs, character height 15 cm
TN8-7x5-15	2 boards 105 x 15	2 x 8 characters, 7 x 5 dots, dot 3 LEDs, character height 15 cm
TN9-7x5-15	2 boards 130 x 15	2 x 9 characters, 7 x 5 dots, dot 3 LEDs, character height 15 cm
TN7-7x5-25	2 boards 130 x 25	2 x 7 characters, 7 x 5 dots, dot 5 LEDs, character height 25 cm
TN8-7x5-25	2 boards 150 x 25	2 x 8 characters, 7 x 5 dots, dot 5 LEDs, character height 25 cm
TN9-7x5-25	2 boards 170 x 25	2 x 9 characters, 7 x 5 dots, dot 5 LEDs, character height 25 cm
TN7-8x5-17	2 boards 90 x 17	2 x 7 characters, 8 x 5 dots, dot 3 LEDs, character height 17 cm
TN8-8x5-17	2 boards 105 x 17	2 x 8 characters, 8 x 5 dots, dot 3 LEDs, character height 17 cm
TN9-8x5-17	2 boards 130 x 17	2 x 9 characters, 8 x 5 dots, dot 3 LEDs, character height 17 cm
TN7-8x5-28	2 boards 130 x 28	2 x 7 characters, 8 x 5 dots, dot 5 LEDs, character height 28 cm
TN8-8x5-28	2 boards 150 x 28	2 x 8 characters, 8 x 5 dots, dot 5 LEDs, character height 28 cm
TN9-8x5-28	2 boards 170 x 28	2 x 9 characters, 8 x 5 dots, dot 5 LEDs, character height 28 cm



Exemple: D-L3F+TN8-7x5-25

Multisport - Model D-S10B



Score Board Facts:
- Small universal scoreboard for indoor use
- LEDs in red color with white captions enhance scoreboard's readability
- Running time in minutes and seconds. The last minute of the game will run down in 1/10 seconds
- Intermission time can be displayed on „running time" section of the scoreboard
- Interval horn 0 to 9 seconds
- Horn

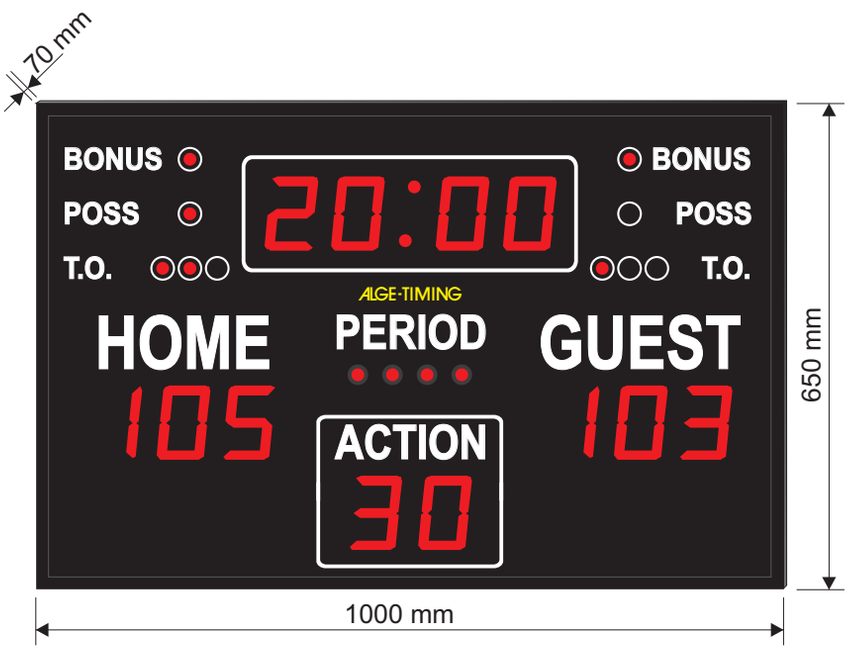
Sports:
- basketball
- handball
- volleyball
- football(soccer)
- tennis

Technical Data:

Digits:	Running Time:	99:59 minutes (up or down) – 100 mm - red
	Score:	0 to 199 for each team – 100 mm – red
	Period:	0 to 9 – 100 mm - red
Digit Cluster:	Bonus:	1 dot per team - each 10 mm diameter LED cluster
	Ball possession:	1 dot per team - each 10 mm diameter LED cluster
	Timeout:	3 dot per team - each 10 mm diameter LED cluster
LED:	Super bright LED numerals, operation time of 100,000 hours in continual use	
Power supply:	110/220VAC-50/60Hz	
Dimensions:	1000 x 650 x 70 mm	
Weight:	about 10 kg	

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-S10A



Score Board Facts:
- Small universal scoreboard for indoor use
- LEDs in red color with white captions enhance scoreboard's readability
- Running time in minutes and seconds. The last minute of the game will run down in 1/10 seconds
- Intermission time can be displayed on the „running time" section of the scoreboard
- Programmable offence time (action time)
- Interval horn 0 to 9 seconds
- Horn

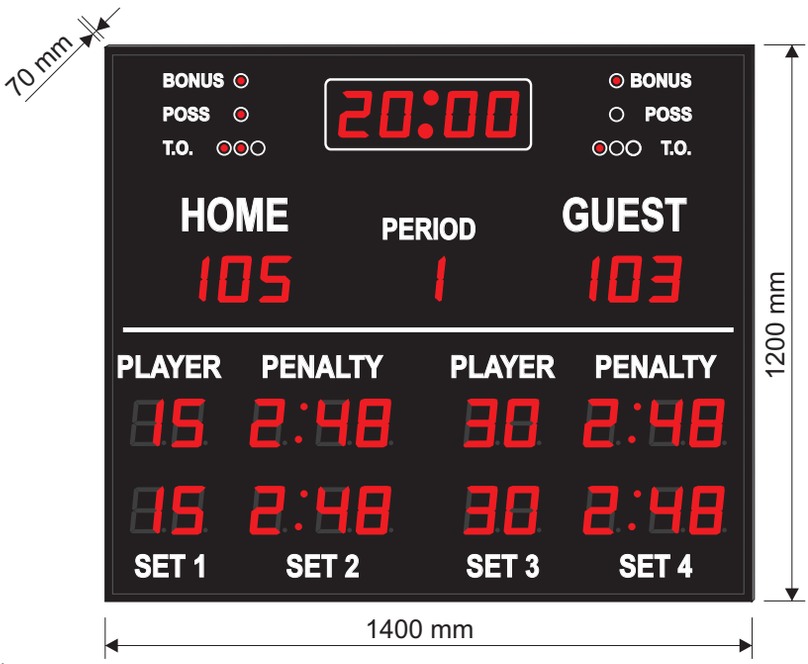
Sports:
- basketball
- handball
- volleyball
- football (soccer)
- tennis

Technical Data:

Digits:	Running Time:	99:59 minutes (up or down) – 100 mm - red
	Score:	0 to 199 for each team – 100 mm – red
	Offence Time:	0 to 99 – 100 mm - red
Digit Cluster:	Period:	4 dot - each 10 mm diameter LED cluster
LED:	Super bright LED numerals; Operation time of 100,000 hours in continual use	
Power supply:	110/220VAC-50/60Hz	
Dimensions:	1000 x 650 x 70 mm	
Weight:	about 10 kg	

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-S10BP2



Score Board Facts:
- Small universal scoreboard for indoor use
- LEDs in red color with white captions enhance scoreboard's readability
- Running time in minutes and seconds. The last minute of the game will run down in 1/10 seconds
- Intermission time can be displayed on the „running time" section of the scoreboard

HOCKEY or HANDBALL:
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (red 10 cm digits)
- Player numbers for penalties: 0 to 99 (red 10 cm digits)

BASKETBALL:
- Team fouls: 0 to 99 (red 10 cm digits)
- Player number: 0 to 99 (red 10 cm digits)
- Player fouls: 0 to 99 (red 10 cm digits)

VOLLEYBALL:
- Score per sets (SET1-4): 2 x 0 to 99 (red 10 cm digits)

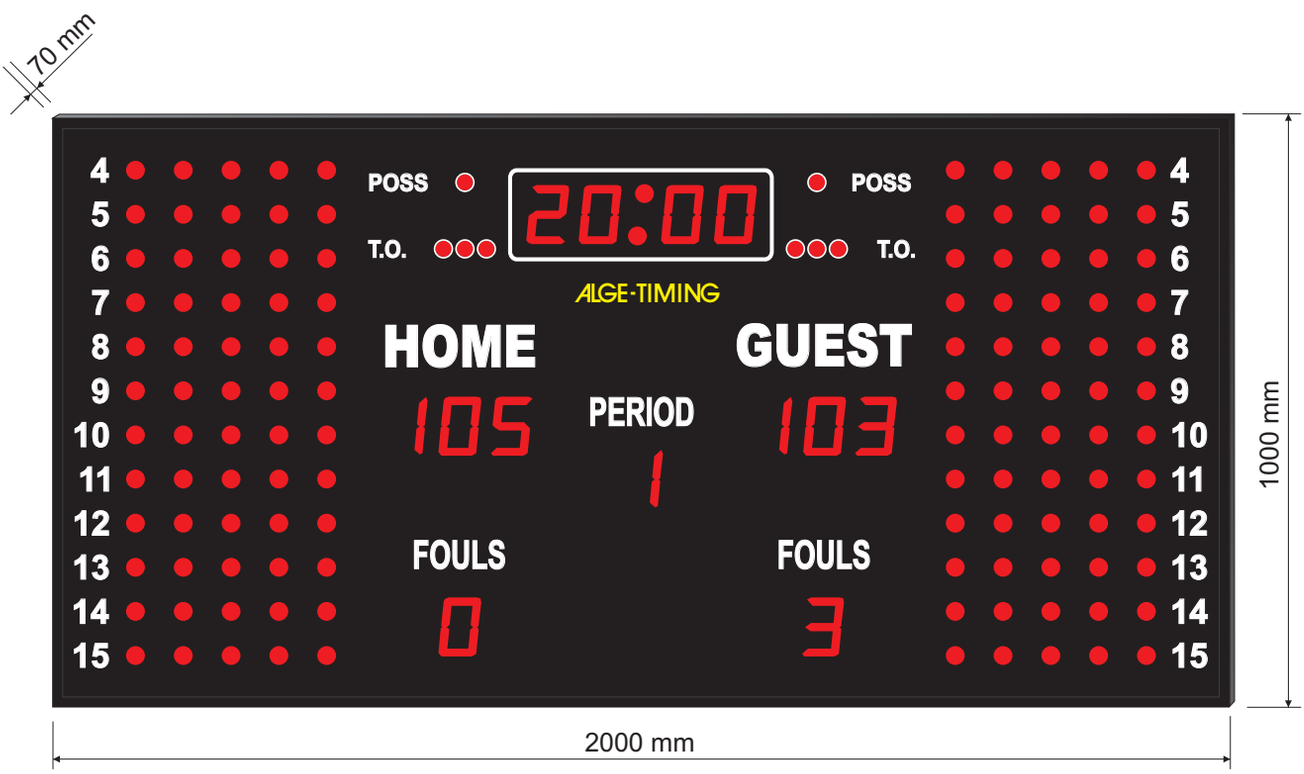
Sports:
- ice hockey
- indoor hockey
- handball
- volleyball
- basketball
- tennis
- football (soccer)

Technical Data:

Digits:	Running Time:	99:59 minutes (up or down) – 100 mm - red
	Score:	0 to 199 for each team – 100 mm – red
	Offence Time:	0 to 99 – 100 mm - red
	Period:	0 to 9 - 100 mm - red
	Penalties:	2 x 0 to 9:59 minutes for each team - 100 mm - red
	Player Numbers:	2 x 0 to 99 for each team - 100 mm - red
Digit Cluster:	Ball Possession:	10 mm LED cluster on each side
	Bonus:	10 mm LED cluster on each side
	Time Out:	3 x 10 mm LED cluster on each side
LED:	Super bright LED numerals; Operation time of 100,000 hours in continual use	
Power supply:	220 VAC-50Hz	
Dimensions:	1400 x 1200 x 70 mm	
Weight:	about 25 kg	

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Basketball - Model D-S3F



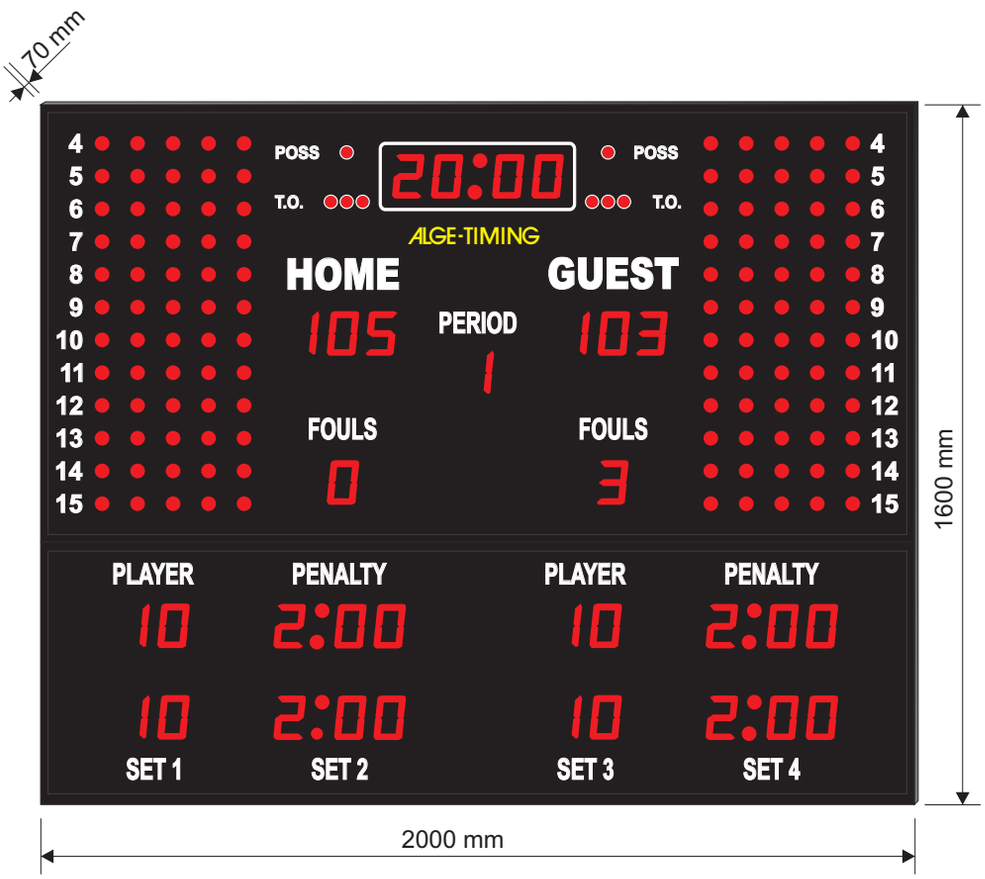
Score Board Facts:

- Small universal scoreboard for indoor use
- LEDs in red color with white captions
- Running time: 99:59 minutes up/down (10 cm red digits). Last minute of play will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (10 cm red digits)
- Period: 0 to 9 (10 cm red digits)
- Ball possession: 1 cm diameter LED each side
- Time out: 3 x 1 cm diameter LED each side
- Team fouls: 0 to 9 (10 cm red digits)
- Personal fouls: 60 x 1 cm diameter LED each side
- Interval horn 0 to 9 seconds
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 2000 x 1000 x 70 mm
- Weight: about 35 kg

Terminal:

CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-S6F

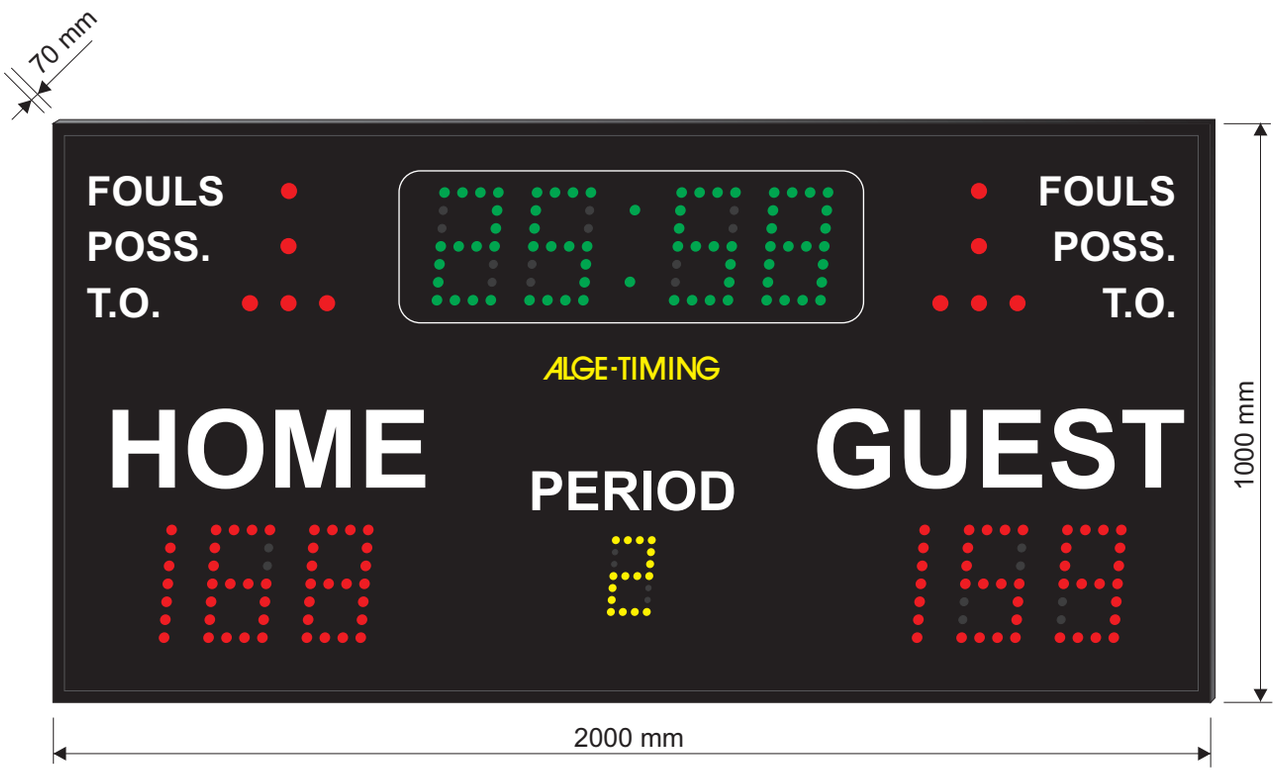


Score Board Facts:

- Small universal scoreboard for indoor use
- Consists of 2 modules which are mounted onto metal frame
- LEDs in red color with white captions
- Running time: 99:59 minutes up/down (10 cm red digits). Last minute of play will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (10 cm red digits)
- Period: 0 to 9 (10 cm red digits)
- Ball possession: 1 cm diameter LED each side
- Time out: 3 x 1 cm diameter LED each side
- Interval horn 0 to 9 seconds
- Team fouls: 0 to 9 (10 cm red digits)
- Personal fouls: 60 x 1 cm diameter LED each side
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (10 cm red digits)
- Player numbers: 0 to 99 (10 cm red digits)
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 2000 x 1600 x 70 mm
- Weight: about 48 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

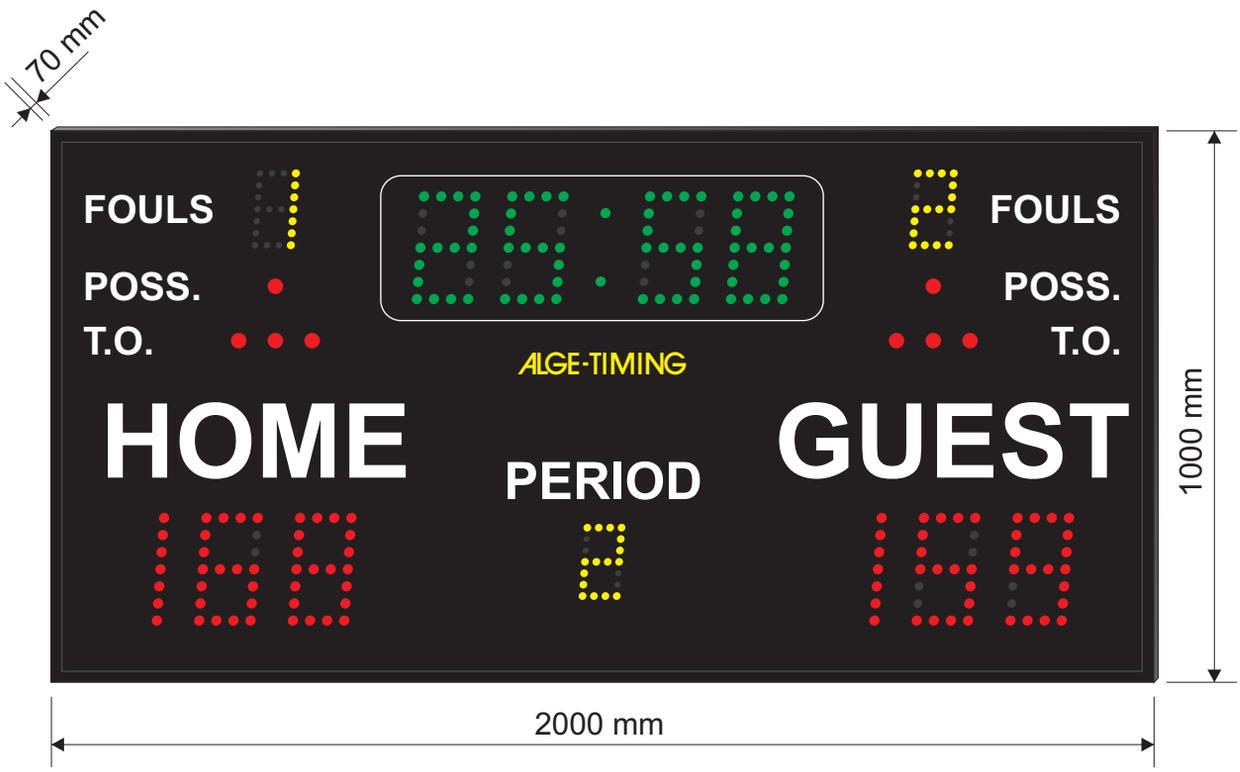
Multisport - Model D-M1



Score Board Facts:
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability.
- Running time: 99:59 minutes up/down (20 cm green digits). Last minute of play will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digit)
- Ball possession: 3 cm diameter LED cluster each side
- Bonus: 3 cm diameter LED cluster each side
- Time out: 3 x 3 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 2000 x 1000 x 70 mm
- Weight: about 30 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-M1F



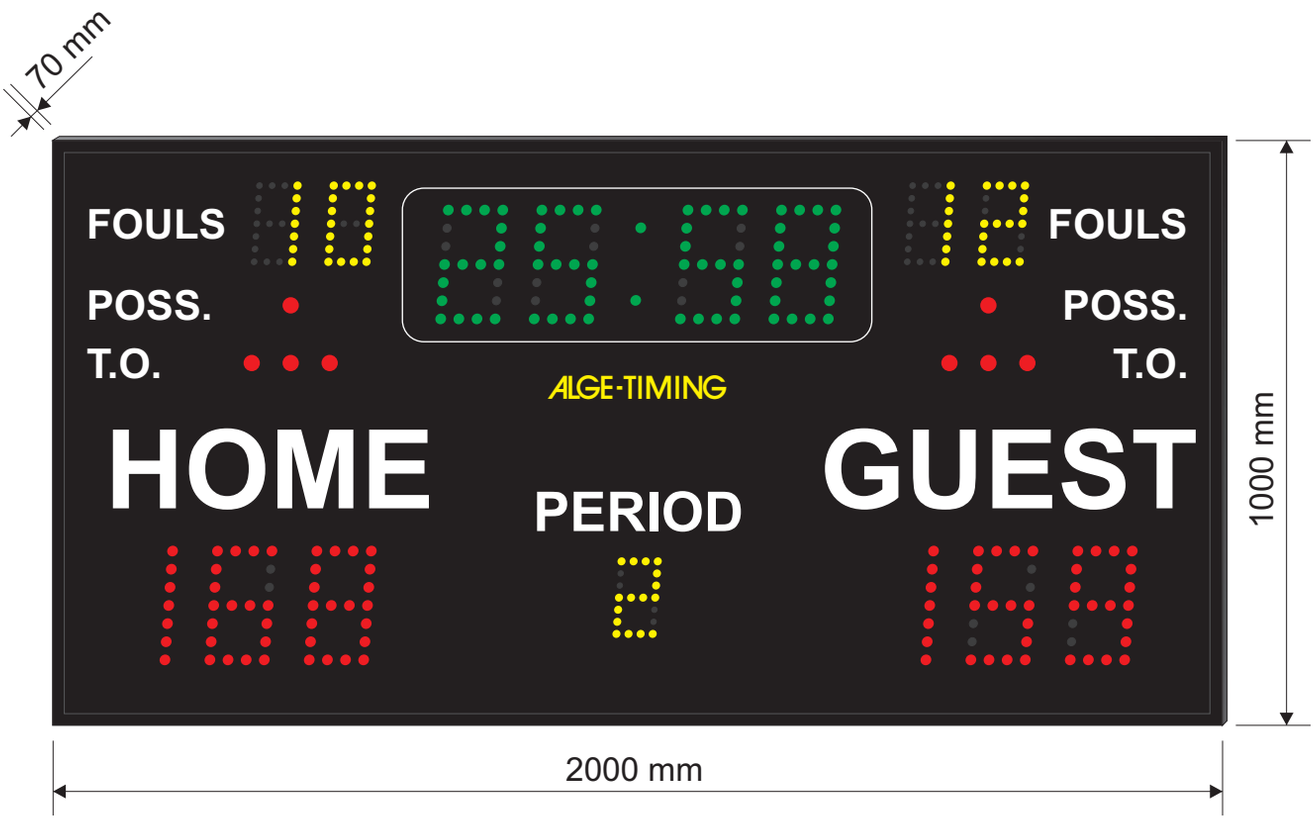
Score Board Facts:

- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability.
- Running time: 99:59 minutes up/down (20 cm green digits) - last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digit)
- Fouls: 0 to 9 each side (14 cm yellow digits)
- Ball possession: 3 cm diameter LED cluster each side
- Time out: 3 x 3 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 2000 x 1000 x 70 mm
- Weight: about 30 kg

Terminal:

CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-M1F1



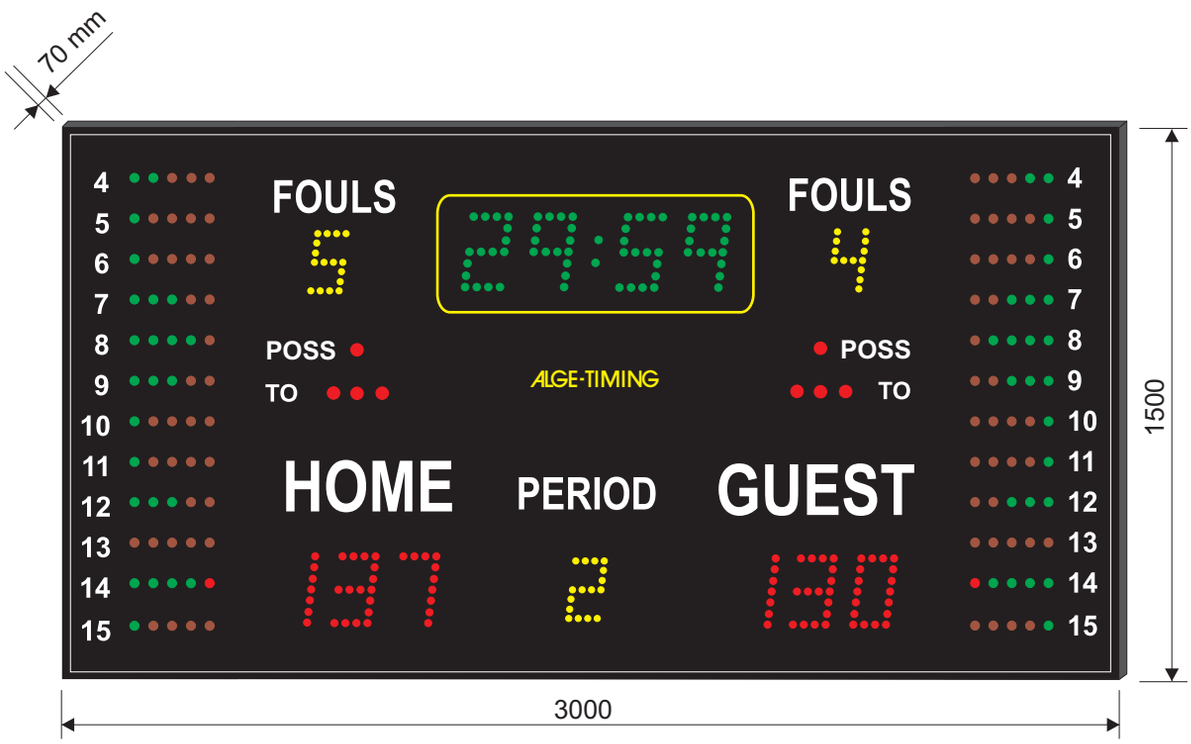
Score Board Facts:

- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability.
- Running time: 99:59 minutes up/down (20 cm green digits) - last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digits)
- Fouls: 0 to 99 on each side (14 cm yellow digits)
- Ball possession: 3 cm diameter LED cluster each side
- Time out: 3 x 3 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 2000 x 1000 x 70 mm
- Weight: about 30 kg

Terminal:

CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Basketbal - Model D-M3F



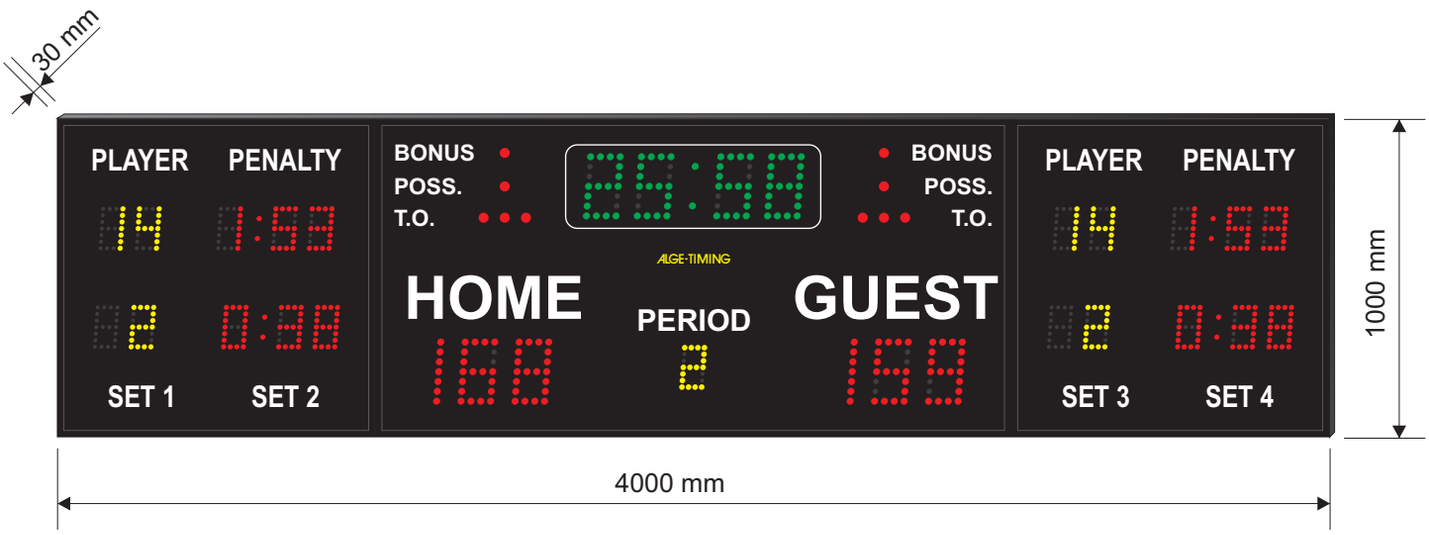
Score Board Facts:

- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability.
- Running time: 99:59 minutes up/down (20 cm green digits) - last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digit)
- Fouls: 0 to 9 each side (14 cm yellow digits)
- Ball possession: 3 cm diameter LED cluster each side
- Time out: 3 x 3 cm diameter LED cluster each side
- Personal fouls: 60 x 3 cm diameter led cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 3000 x 1500 x 70 mm
- Weight: about 68 kg

Terminal:

CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-M4H2



Score Board Facts:
- Consists of 3 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm green digits) - last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digit)
- Ball possession: 3 cm diameter LED cluster each side
- Bonus: 3 cm diameter LED cluster each side
- Time out: 3 x 3 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 4000 x 1000 x 70 mm
- Weight: about 60 kg

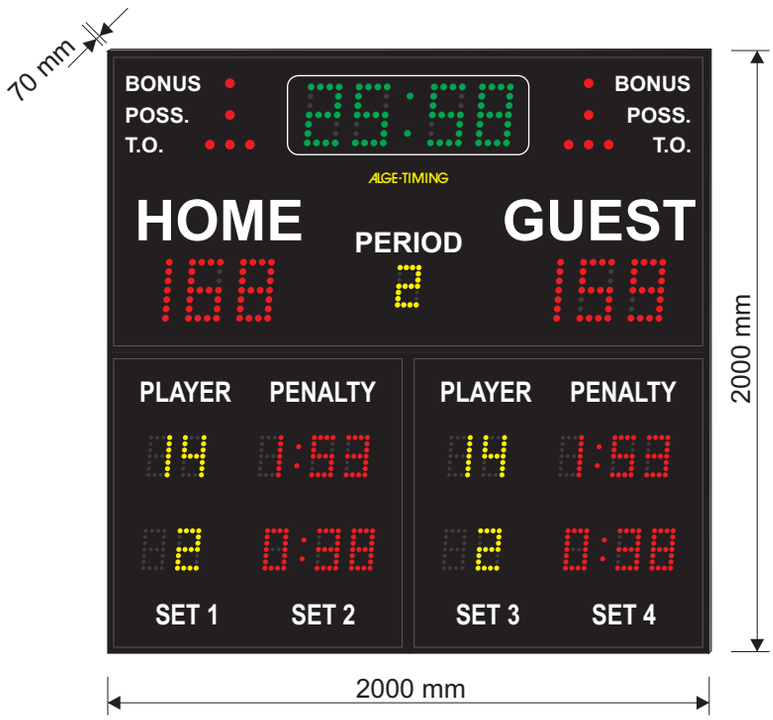
BASKETBALL GAMES
- Team fouls: 0 to 99 (14 cm digits)
- Player number: 0 to 99 (14 cm digits)
- Player fouls: 0 to 99 (14 m digits)

VOLLEYBALL GAMES
- Score per sets (SET1-4): 2 x 0 to 99 (14 cm digits)

HANDBALL / HOCKEY GAMES
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (14 cm red digits)
- Player numbers: 0 to 99 (14 cm yellow digits)

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-M4V2



Score Board Facts:
- Consists of 3 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm green digits) - last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digit)
- Ball possession: 3 cm diameter LED cluster each side
- Bonus: 3 cm diameter LED cluster each side
- Time out: 3 x 3 cm diameter LED cluster each side
- Horn
- Power supply: 110/220 VAC-50/60Hz
- Dimensions: 2000 x 2000 x 70 mm
- Weight: about 60kg

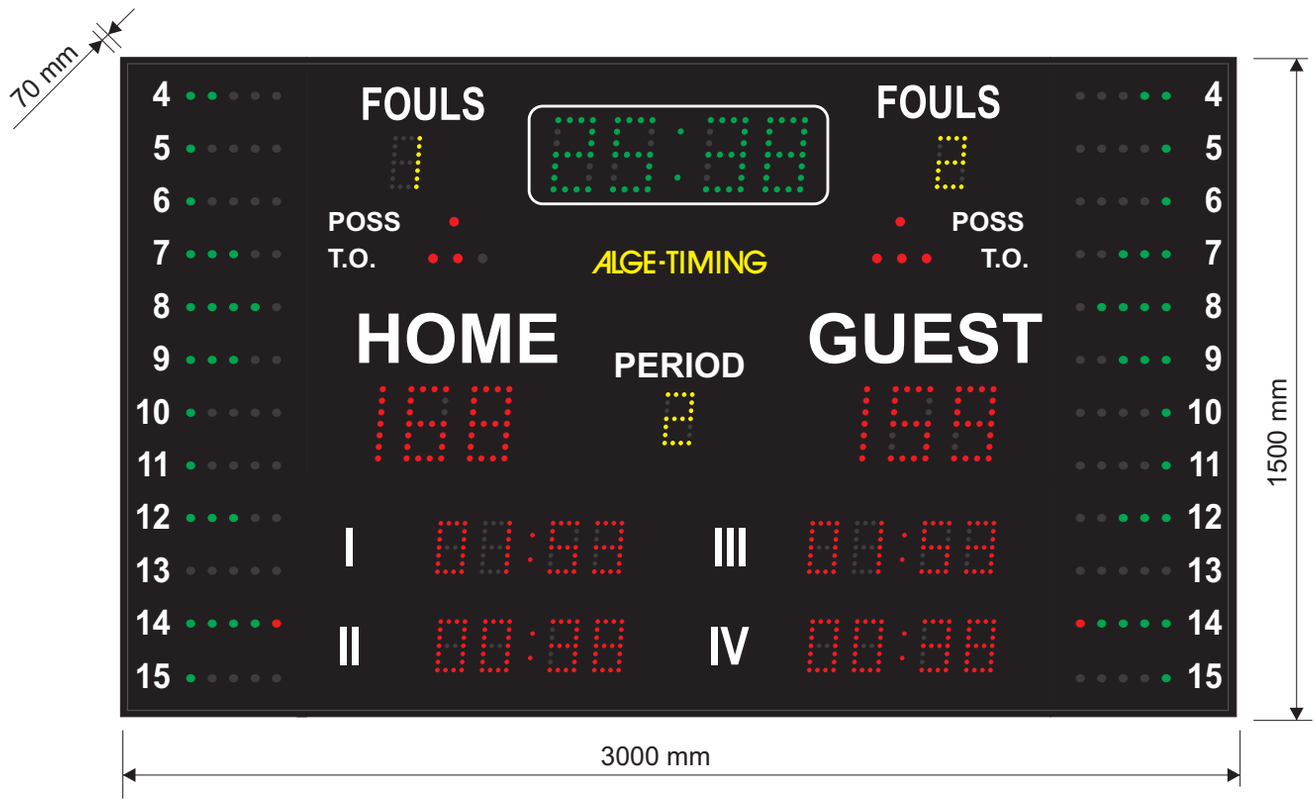
BASKETBALL GAMES
- Team fouls: 0 to 99 (14 cm digits)
- Player number: 0 to 99 (14 cm digits)
- Player fouls: 0 to 99 (14 cm digits)

VOLLEYBALL GAMES
- Score per sets (SET1-4): 2 x 0 to 99 (14 cm digits)

HANDBALL / HOCKEY GAMES
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (14 cm red digits)
- Player numbers: 0 to 99 (14 cm yellow digits)

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-M5D1



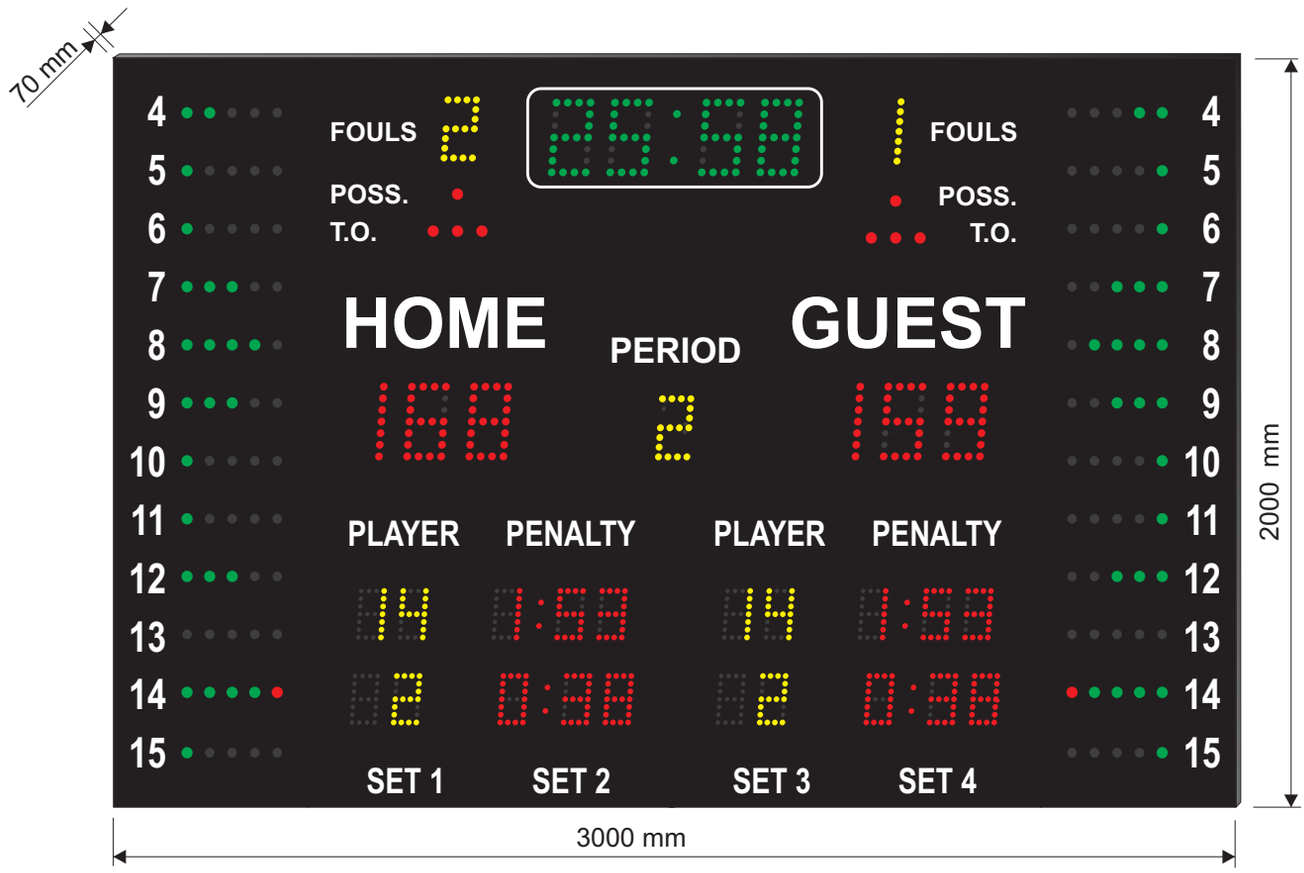
Score Board Facts:
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm green digits) - last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Team Fouls: 0 to 9 for each team (14 cm yellow digits)
- Score: 0 to 199 for each team (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digit)
- Ball possession: 3 cm diameter LED cluster for each team
- Time out: 3 x 3 cm diameter LED cluster for each team
- Personal fouls: 60 x 3 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 3000 x 1500 x 70 mm
- Weight: about 90 kg

VOLLEYBALL GAMES
- Score per sets (SET1-4): 2 x 0 to 99 (14 cm digits)

HANDBALL / HOCKEY GAMES
- Penalties: Two penalty timers per team: 0 - 9:59 minutes (14 cm red digits)

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-M6F



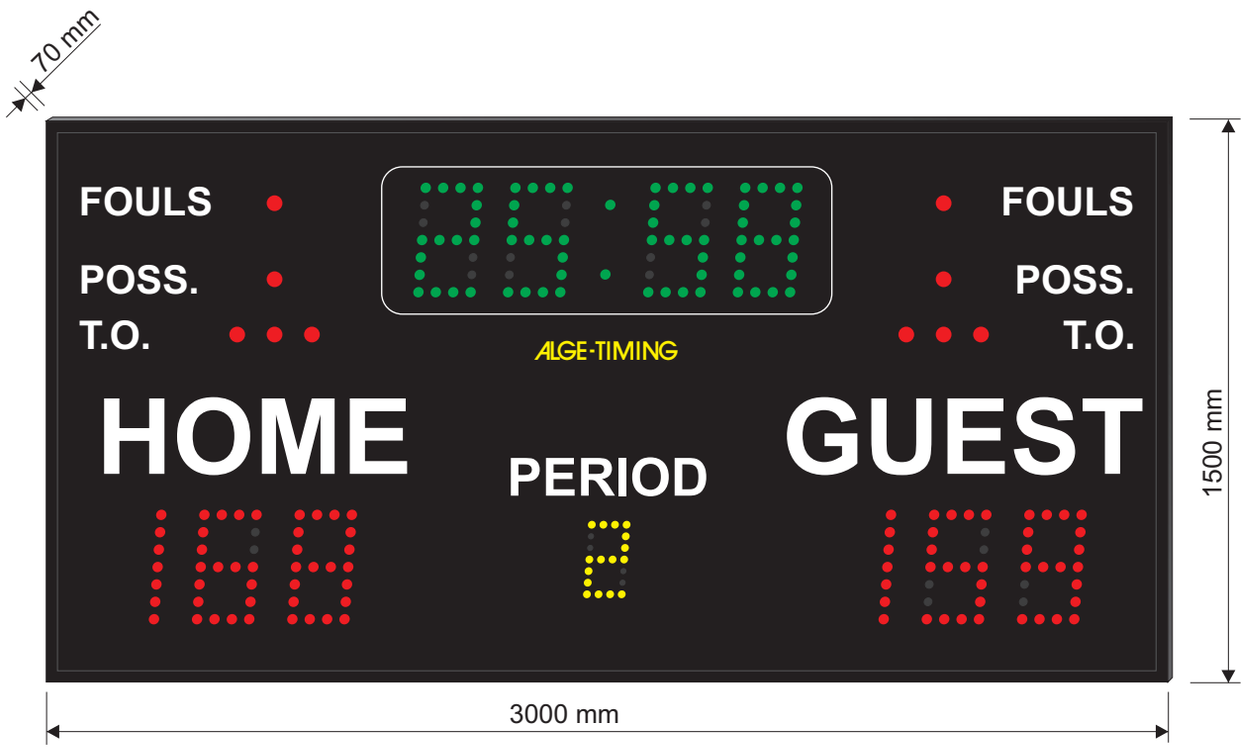
Score Board Facts:

- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm green digits) - last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (14 cm yellow digit)
- Team Fouls: 0 to 9 for each team (14 cm yellow digits)
- Ball possession: 3 cm diameter LED cluster for each team
- Time out: 3 x 3 cm diameter LED cluster for each team
- Personal fouls: 60 x 3 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Case: Powder coated aluminium
- Dimensions: 3000 x 2000 x 70 mm
- Weight: about 90 kg

BASKETBALL:	running time, score, period, ball possession, time outs, personal fouls, team fouls, score by quarters
VOLLEYBALL:	running time, time outs, score in the match, score in the current set, score per sets
HANDBALL:	running time, score, period, time outs, penalties with player number and penalty time

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

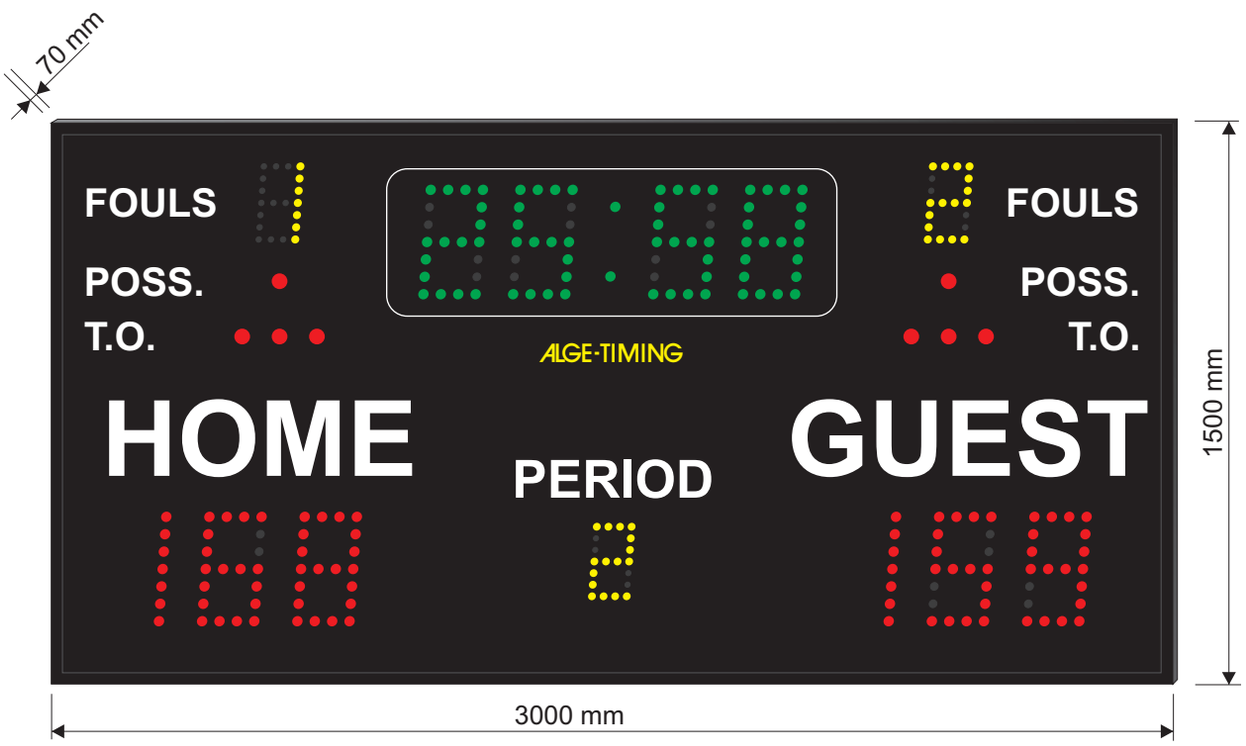
Multisport - Model D-L1



Score Board Facts:
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of game will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Ball possession: 5 cm diameter LED cluster each side
- Bonus: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 3000 x 1500 x 70 mm
- Weight: about 68 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

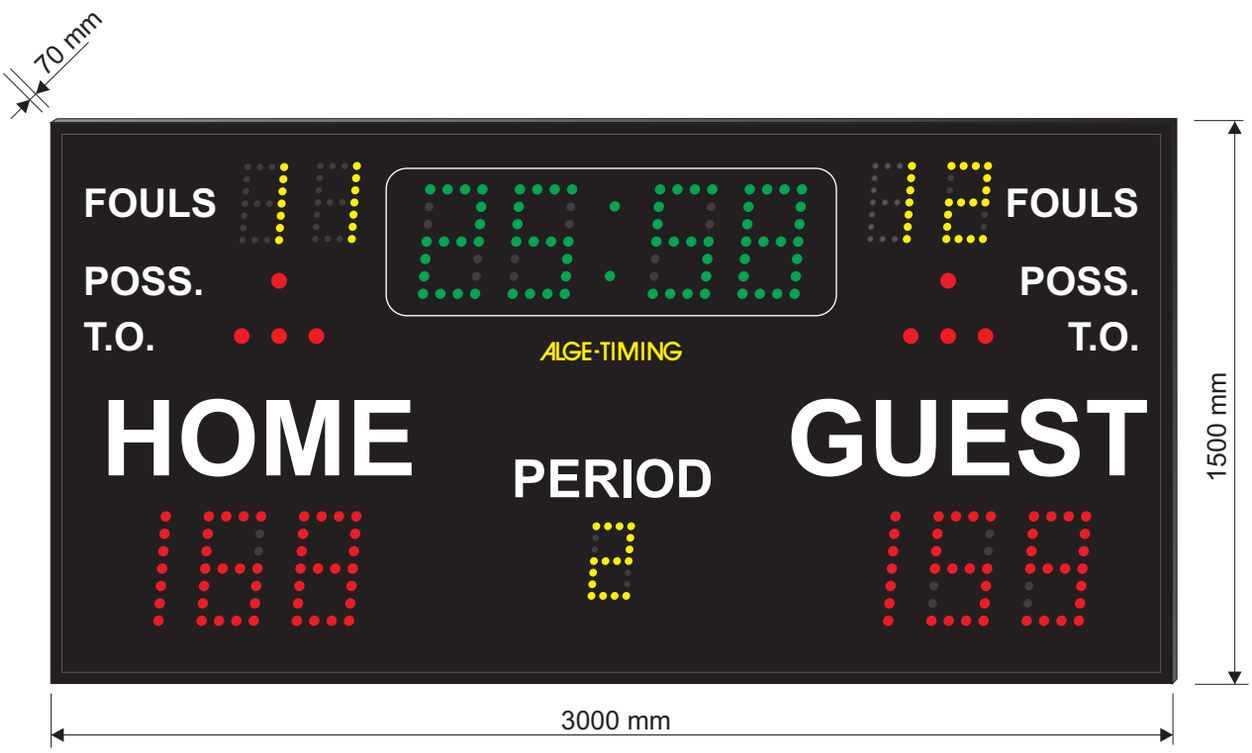
Multisport - Model D-L1F



Score Board Facts:
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of game will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Fouls: 0 to 9 each side (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 3000 x 1500 x 70 mm
- Weight: about 68 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

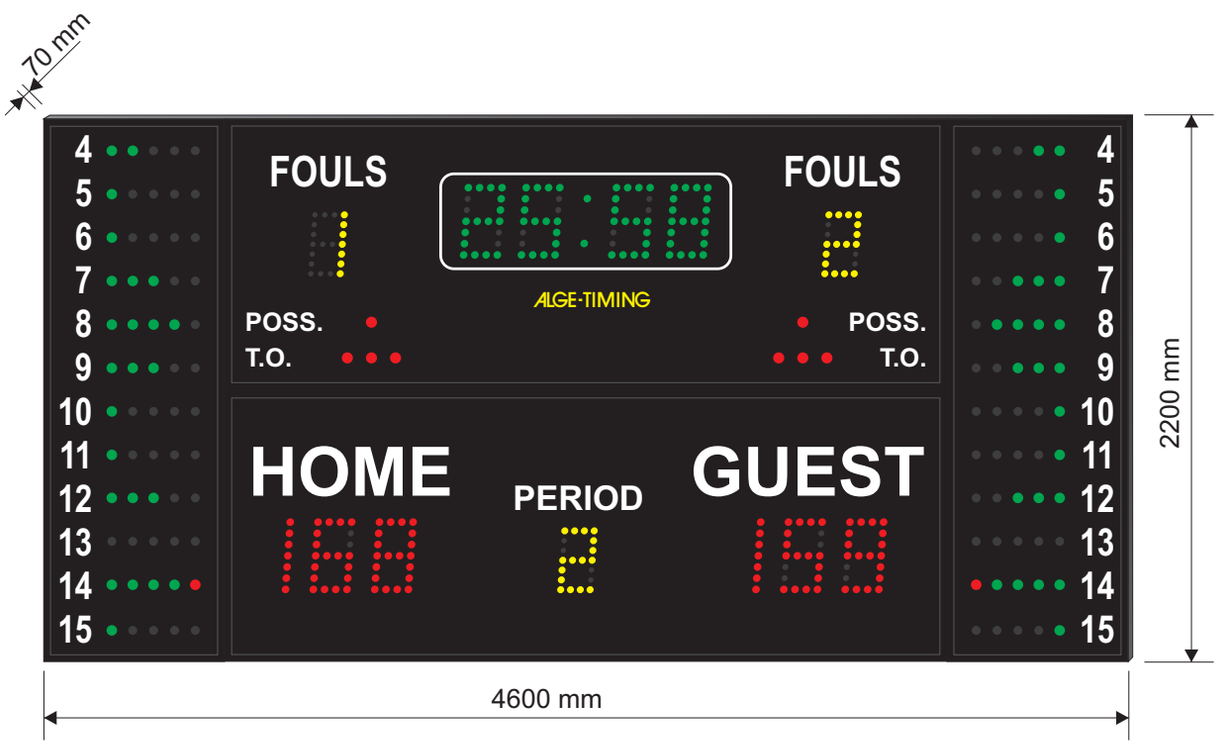
Multisport - Model D-L1F1



Score Board Facts:
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits). last minute of game will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Fouls: 0 to 99 each side (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC-50/60Hz
- Dimensions: 3000 x 1500 x 70 mm
- Weight: about 68 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Basketball - Model D-L3F

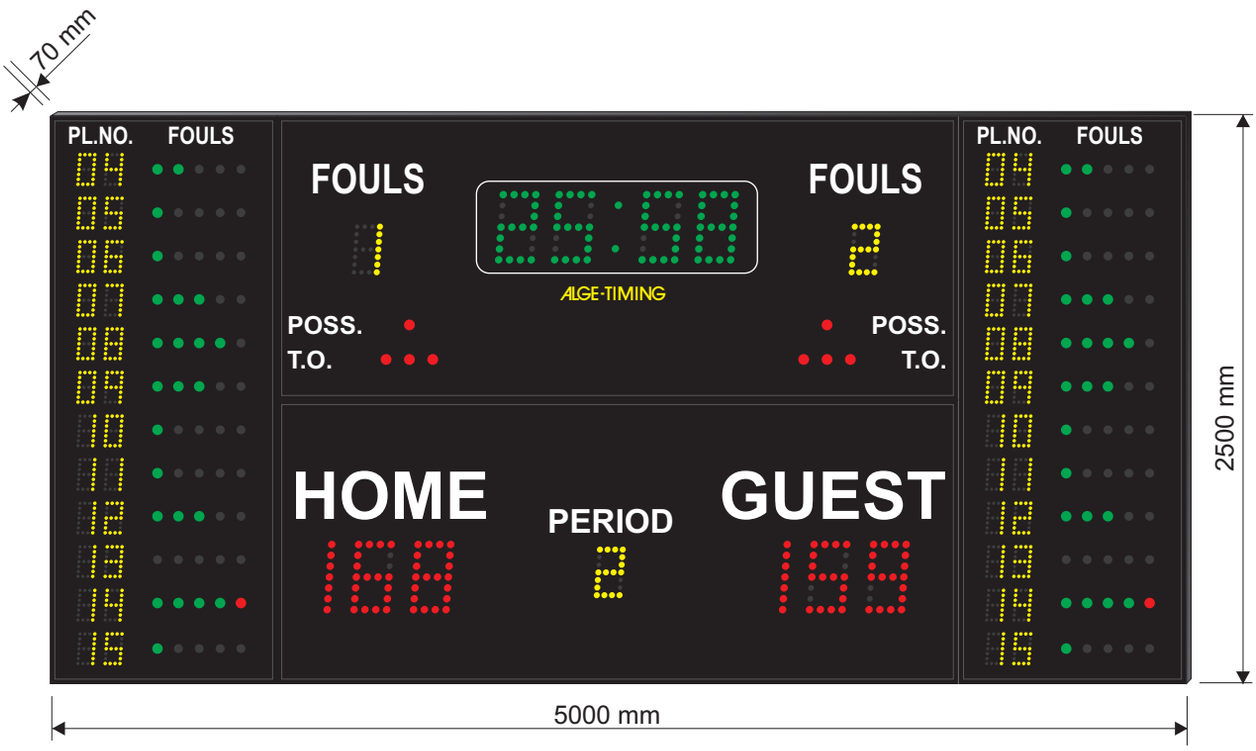


Score Board Facts:
- Score Board built to meet FIBA specifications!
- Consists of 4 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits). last minute of play will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Fouls: 0 to 9 each side (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Personal fouls: 60 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 4600 x 2200 x 70 mm
- Weight: about 152 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Basketball - Model D-L3FN14

Multisport Sore Board

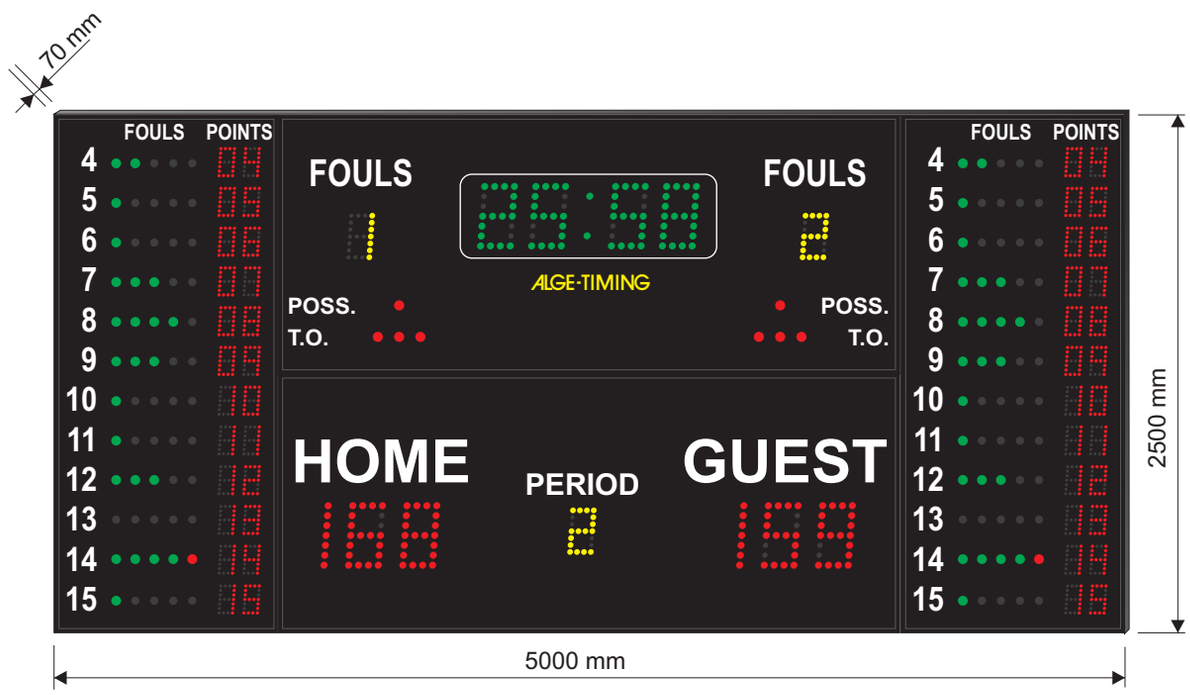


Score Board Facts:
- Consists of 4 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of play will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Fouls: 0 to 9 each side (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Player numbers: 0 to 99 for 12 players each side (14 cm yellow digits)
- Personal fouls: 60 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 5000 x 2500 x 70 mm
- Weight: about 188 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Basketball - Model D-L3FP14

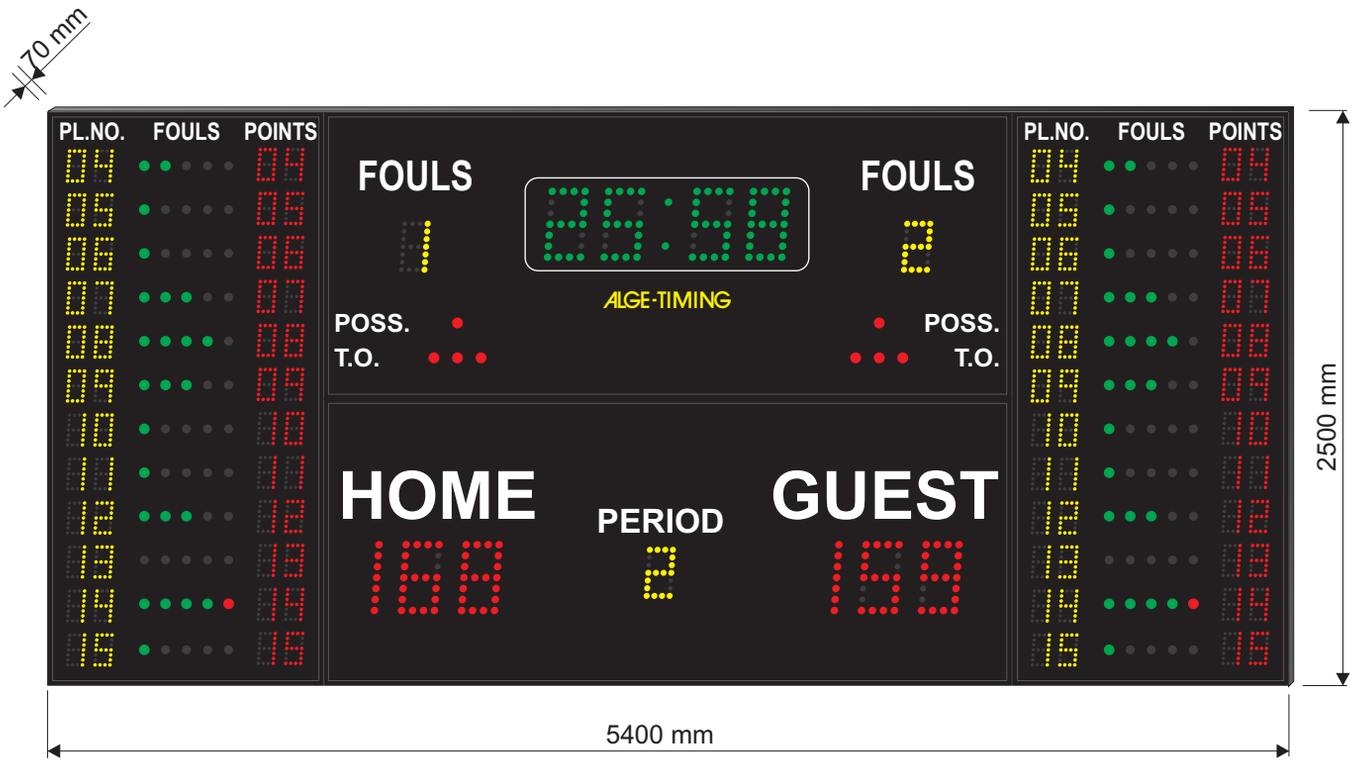
Multisport Sore Board



Score Board Facts:
- Consists of 4 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of game will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Fouls: 0 to 9 each side (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Player points: 0 to 99 for 12 players each side (14 cm red digits)
- Personal fouls: 60 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 5000 x 2500 x 70 cm
- Weight: about 188 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Basketball - Model D-L3FNP14

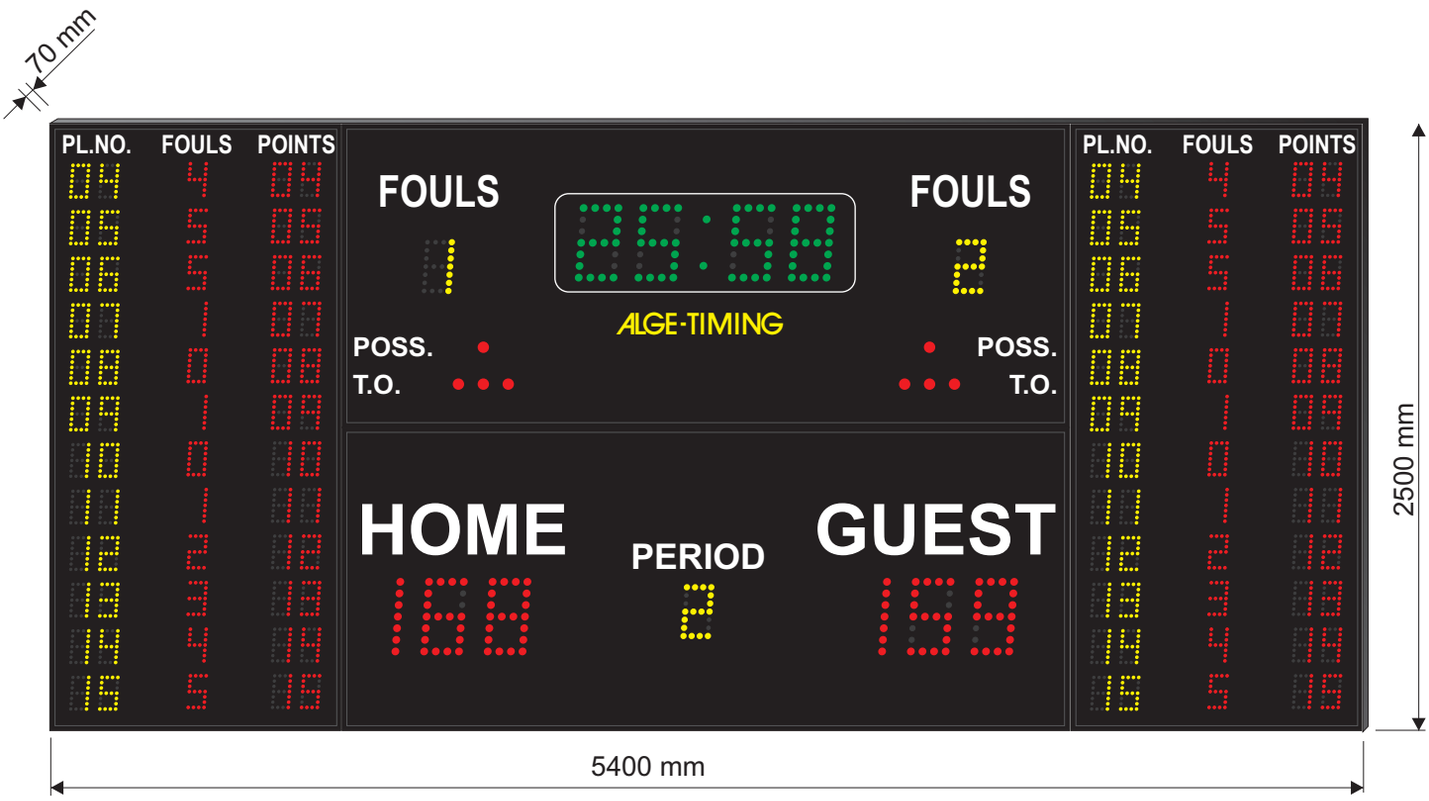


Score Board Facts:
- Consists of 4 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of game will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Fouls: 0 to 9 each side (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Player numbers: 0 to 99 for 12 players each side (14 cm yellow digits)
- Player points: 0 to 99 for 12 players each side (14 cm red digits)
- Personal fouls: 60 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220VAC - 50/60 Hz
- Dimensions: 5400 x 2500 x 70 mm
- Weight: about 203 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Basketball - Model D-L3FNPP14

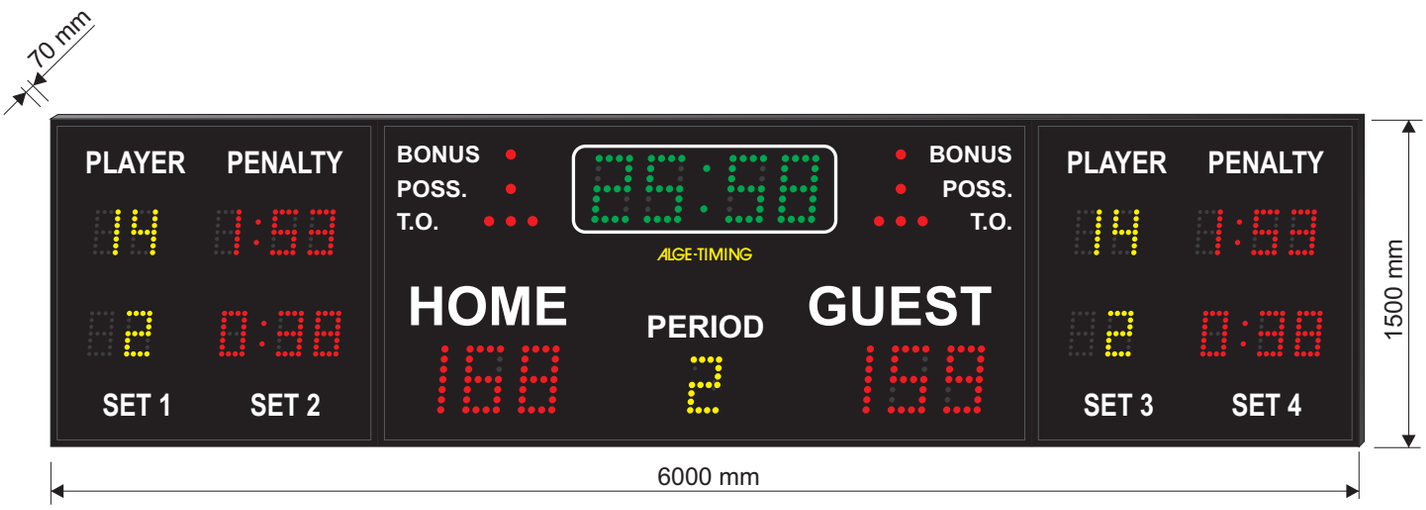
Multisport Sore Board



Score Board Facts:
- Consists of 4 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with wide captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of game will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Fouls: 0 to 9 each side (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Player numbers: 0 to 99 for 12 players each side (14 cm yellow digits)
- Player points: 0 to 99 for 12 players each side (14 cm red digits)
- Personal fouls: 0 to 9 for 12 players each side (14 cm red digits)
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 5400 x 2500 x 70 mm
- Weight: about 203 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-L4H2



Score Board Facts:
- Consists of 3 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of period will run down in 1/10 seconds.
- Day time (real clock) can be displayed on the "running time" section of the scoreboard.
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Ball possession: 5 cm diameter LED cluster each side
- Bonus: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 6000 x 1500 x 70 mm
- Weight: about 135 kg

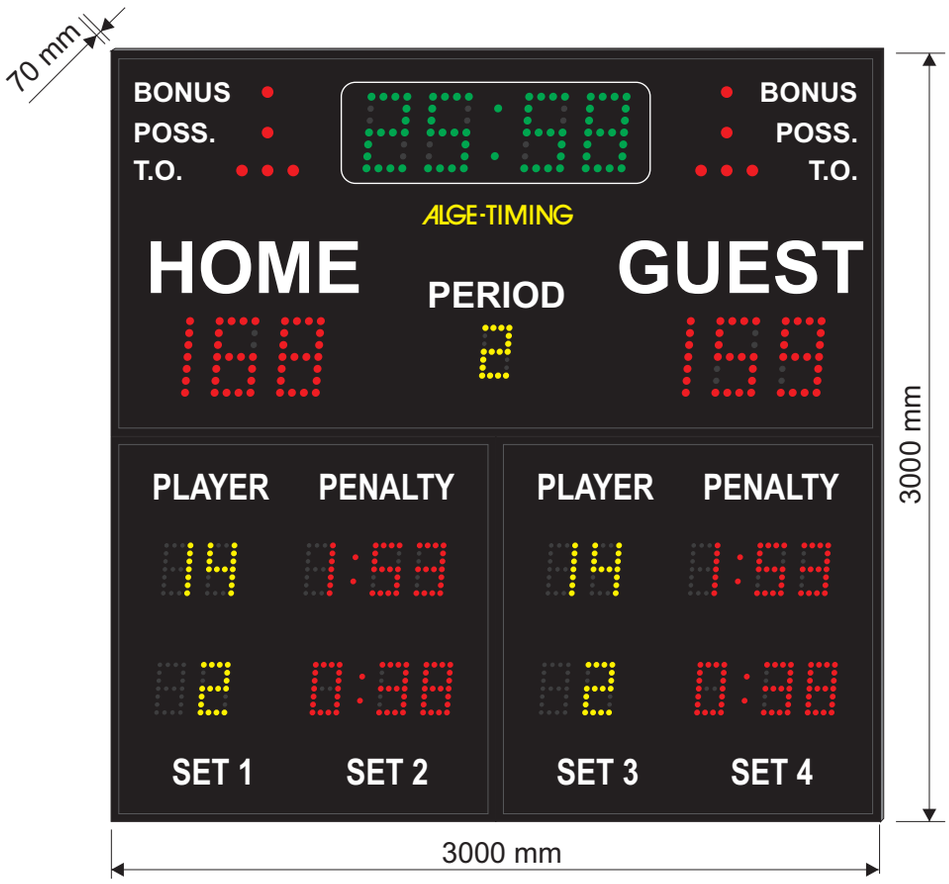
BASKETBALL GAMES
- Team fouls: 0 to 99 (20 cm digits)
- Player number: 0 to 99 (20 cm digits)
- Player fouls: 0 to 99 (20 cm digits)

VOLLEYBALL GAMES
- Score per sets (SET1-4): 2 x 0 to 99 (20 cm digits)

HANDBALL / HOCKEY GAMES
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (20 cm red digits)
- Player numbers: 0 to 99 (20 cm yellow digits)

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Multisport - Model D-L4V2



Score Board Facts:
- Consists of 2 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Ball possession: 5 cm diameter LED cluster each side
- Bonus: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 3000 x 3000 x 70 mm
- Weight: about 135 kg

BASKETBALL GAMES
- Team fouls: 0 to 99 (20 cm digits)
- Player number: 0 to 99 (20 cm digits)
- Player fouls: 0 to 99 (20 cm digits)

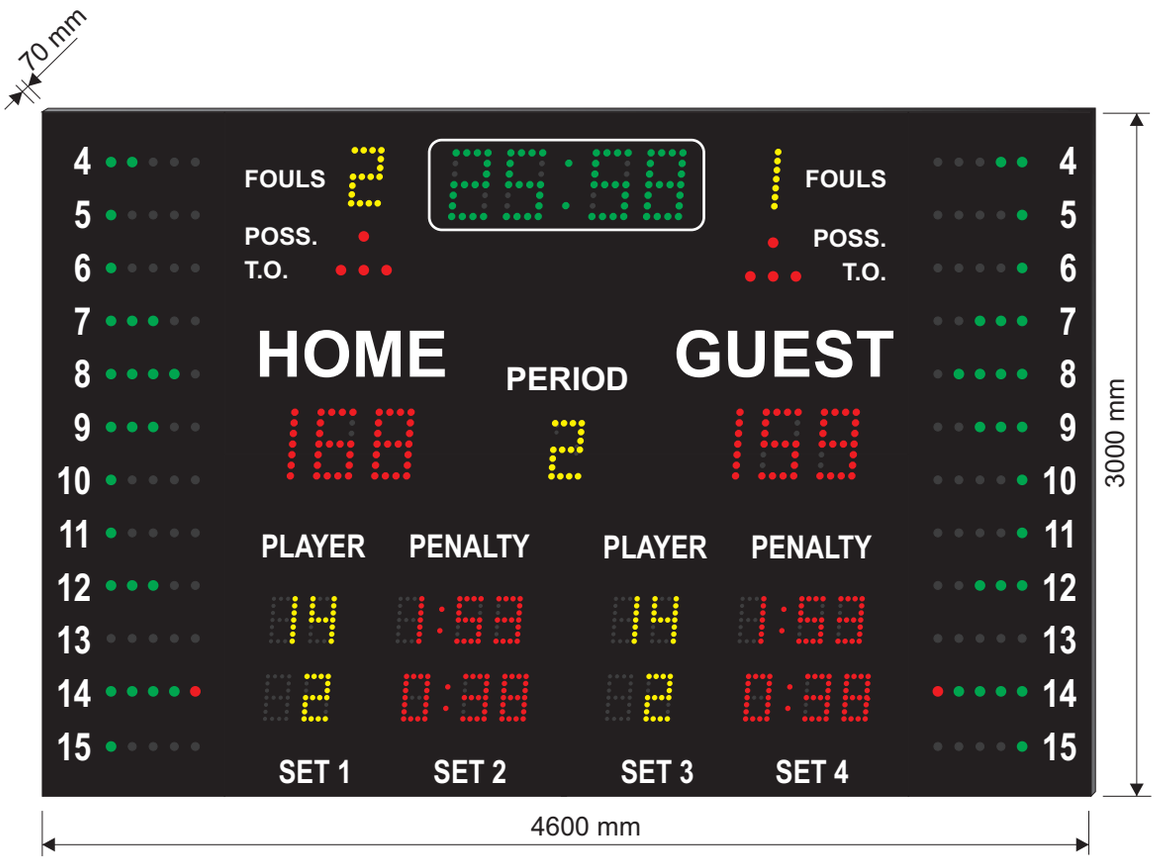
VOLLEYBALL GAMES
- Score per sets (SET1-4): 2 x 0 to 99 (20 cm digits)

HANDBALL / HOCKEY GAMES
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (20 cm red digits)
- Player numbers: 0 to 99 (20 cm yellow digits)

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

ALGE-TIMING GmbH&Co, Rotkreuzstrasse 39, A-6890 Lustenau, AUSTRIA, Tel: +43-5577-85966, Fax: +43-5577-85966-4, office@alge-timing.com

Multisport - Model D-L6F



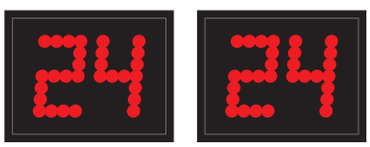
Score Board Facts:
- Consists of 4 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of game will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (25 cm yellow digit)
- Team Fouls: 0 to 9 for each team (25 cm yellow digits)
- Ball possession: 5 cm diameter LED cluster each side
- Time out: 3 x 5 cm diameter LED cluster each side
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Case of Board: powder coated aluminium
- Dimensions: 4600 x 3000 x 70 mm
- Weight: 276 kg

BASKETBALL: running time, score, period, ball possession, time outs, personal fouls, team fouls, score by quarters
VOLLEYBALL: running time, time outs, score in the match, score in the current set, score per sets
HANDBALL: running time, score, period, time outs, penalties with player number and penalty time

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Shot Clock - Model D-SC

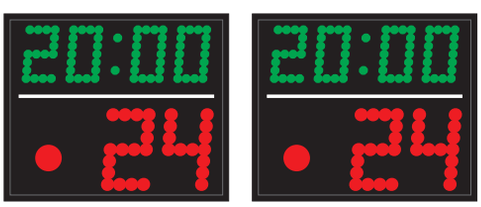
- This Shot Clock works only in combination with the ALGE Multisport Scoreboards.
- A horn signal at main scoreboard automatically sounds when the shot timer reaches zero
- Displays 'Time-out' time
- Additional power supply is not required
- All modularized design, simple replacement
- Protected digits with metal frame - protective covers not needed



Model SC20

Model SC 20

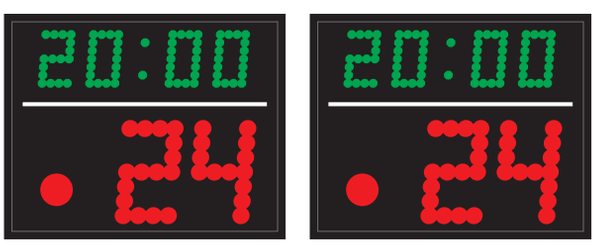
- Dimensions: 450 x 350 x 70 mm
- Weight: 3 kg
- Shot Clock: 0 - 99 seconds (20 cm red digits)



Model SC25

Model SC 25

- Dimensions: 600 x 500 x 70 mm
- Weight: 10 kg
- Game time display: 99:59 minutes (14 cm green digits)
- Shot Clock: 0 - 99 seconds (20 cm red digits)
- 8 cm red LED cluster which lights up when horn signal sounds



Model SC25F

Model SC 25F

- Dimensions: 750 x 600 x 70 mm
- Weight: 12 kg
- Game time display: 99:59 minutes (14 cm green digits)
- Shot Clock: 0 - 99 seconds (25 cm red digits)
- 8 cm red LED cluster which lights up when horn signal sounds

INCLUDES

- Power box
- Additional console CKA with start and reset buttons, which will be used in conjunction with main scoreboard console.

Shot Clock - Model D-SCA

According to new basketball rules, it works independently from the main scoreboard.

- A horn signal automatically sounds when the shot timer reaches zero.
- All modularized design, simple replacement.
- Protected digits with metal frame - protective covers not needed.

Model SC 20SA

- Dimensions: 450 x 350 x 70 mm
- Weight: 3 kg
- Shot Clock: 0 - 99 seconds (20 cm red digits)

Model SC 25SA

- Dimensions: 600 x 500 x 70 mm
- Weight: 10 kg
- Game time display: 99:59 minutes (14 cm green digits)
- Shot Clock: 0 - 99 seconds (20 cm red digits)
- 8 cm red LED cluster which lights up when horn signal sounds

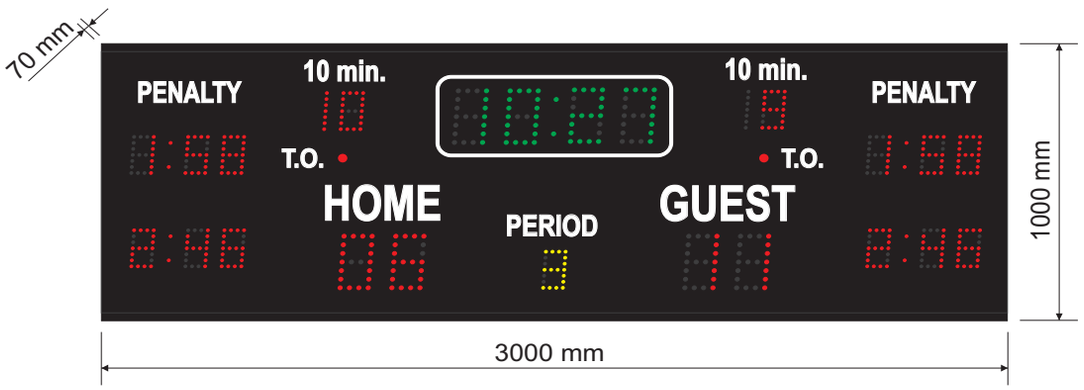
Model SC 25FSA

- Dimensions: 750 x 600 x 70 mm
- Weight: 12 kg
- Game time display: 99:59 minutes (14 cm green digits)
- Shot Clock: 0 - 99 seconds (25 cm red digits)
- 8 cm red LED cluster which lights up when horn signal sounds

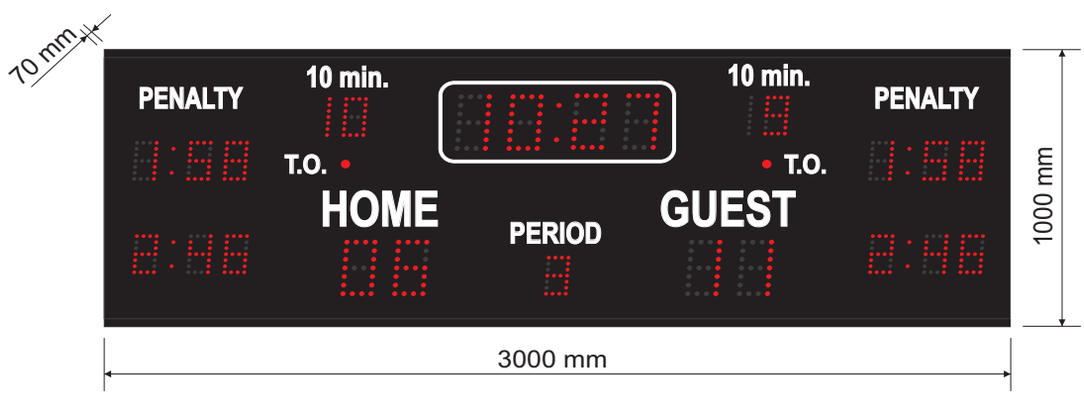
The system includes:

- Power box
- Additional console CKA with start and reset buttons, which will be used in conjunction with main scoreboard console.

Ice Hockey - Model D-M5DH2H



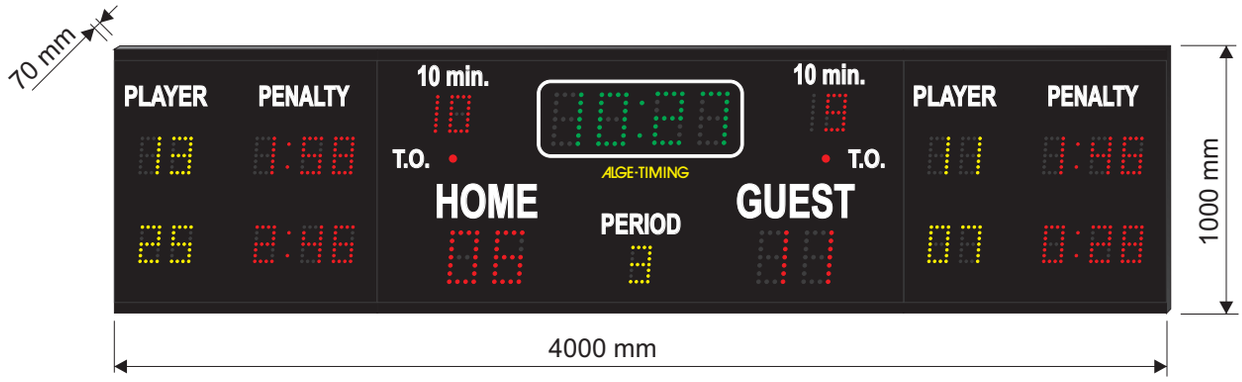
Ice Hockey Score Boards for Indoor (Model D-M5DH2H) and Outdoor (Model D-M5DH2H-O-RGY):
- Consists of one complete board.
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm green digits), last minute of match will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 99 each side (20 cm red digits)
- Period: 0 to 9 (20 cm yellow digit)
- 10 min.: 0 to 19 each side (14 cm red digits)
- Time out: 1 x 3 cm diameter LED cluster each side
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (14 cm red digits)
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 3000 x 1000 x 70 mm
- Weight: about 60 kg



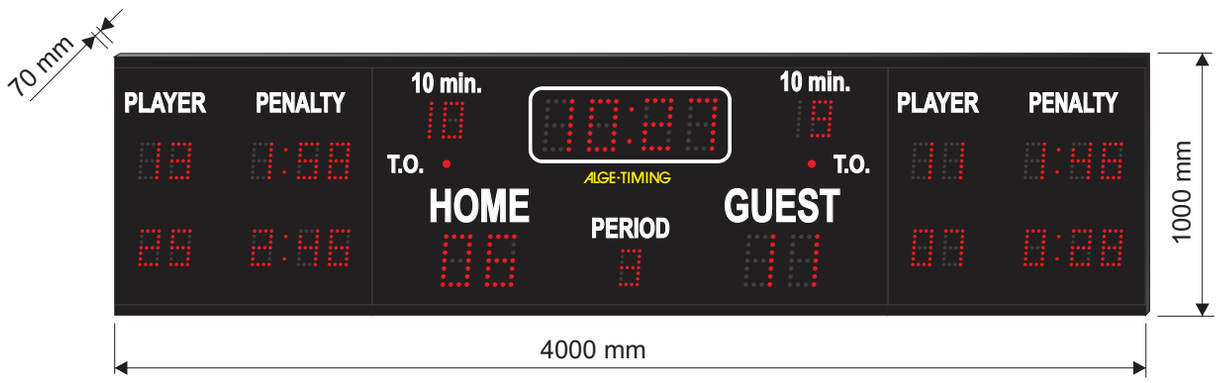
Ice Hoceky Score Boards D-M5DH2H-O-R (Outdoor with red LED):
- Ice Hockey Score Board for outdoor use!
- Consists of one complete board.
- LEDs in red color with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm red digits), last minute of match will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (20 cm red digit)
- 10 min.: 0 to 19 each side (14 cm red digits)
- Time out: 1 x 5 cm diameter LED cluster each side
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (14 cm red digits)
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 3000 x 1000 x 70 mm
- Weight: about 60 kg

Terminal for all models:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Ice Hockey - Model D-M4H2H



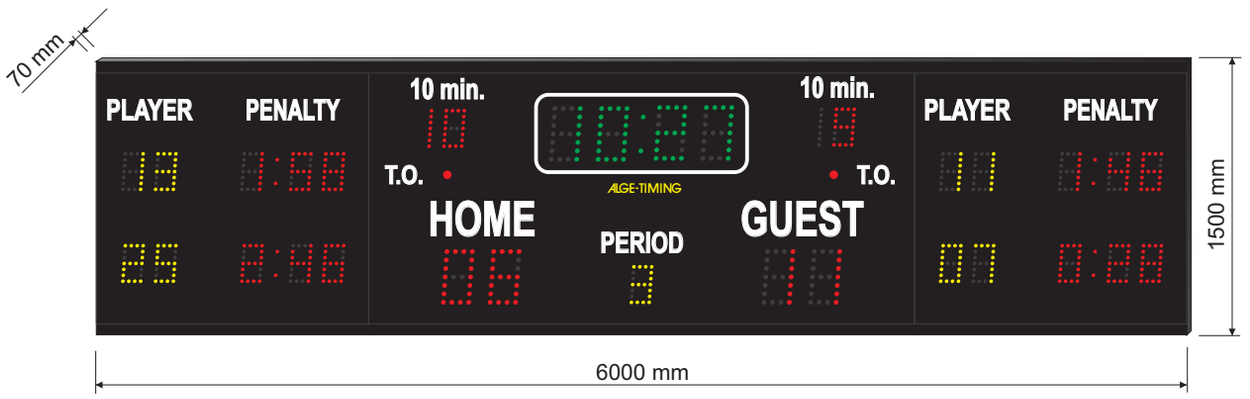
Ice Hockey Score Boards for Indoor (Model D-M4H2H) and Outdoor (Model D-M4H2H-O-RGY):
- Consists of 3 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm green digits), last minute of match will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 99 each side (20 cm red digits)
- Period: 0 to 9 (20 cm yellow digit)
- 10 min.: 0 to 19 each side (14 cm red digits)
- Time out: 1 x 3 cm diameter LED cluster each side
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (14 cm red digits)
- Player numbers for penalty times: 0 to 99 (14 cm yellow digits)
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 4000 x 1000 x 70 mm
- Weight: about 60 kg



Ice Hockey Score Boards D-M4H2H-O-R (Outdoor with red LED):
- Consists of 3 modules which are mounted onto metal frame
- LEDs in red color with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (20 cm red digits), last minute of match will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (20 cm red digits)
- Period: 0 to 9 (20 cm red digit)
- 10 min.: 0 to 19 each side (14 cm red digits)
- Time out: 1 x 5 cm diameter LED cluster each side
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (14 cm red digits)
- Player numbers for penalty times: 0 to 99 (14 cm red digits)
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 4000 x 1000 x 70 mm
- Weight: about 60 kg

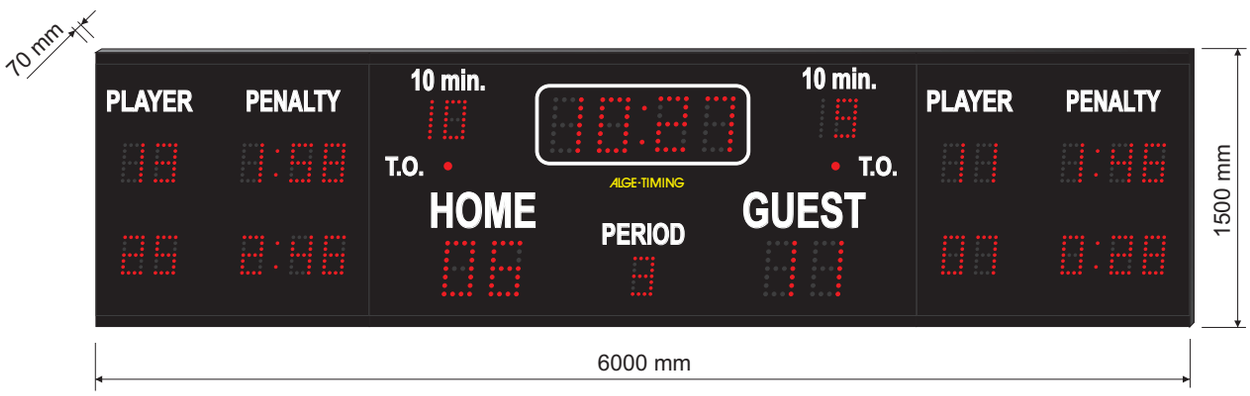
Terminal for all models:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Ice Hockey - Model D-L4H2H



Ice Hockey Score Board for Indoor (Model D-L4H2H) and Outdoor (Model D-L4H2H-O-RGY)

- Consists of 3 modules which are mounted onto metal frame
- LEDs in three colors: red, green and yellow with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm green digits), last minute of match will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (20 cm yellow digit)
- 10 min.: 0 to 19 each side (20 cm red digits)
- Time out: 1 x 5 cm diameter LED cluster each side
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (20 cm red digits)
- Player numbers: 0 to 99 (20 cm yellow digits)
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 6000 x 1500 x 70 mm
- Weight: about 135 kg



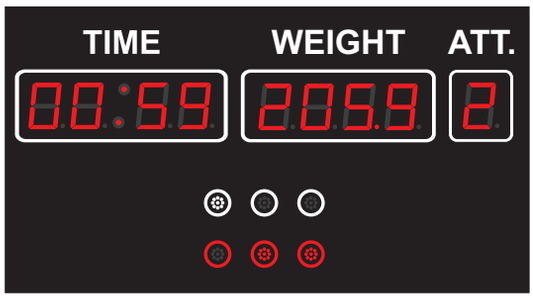
Ice Hockey Score Board D-L4H2H-O-R for Outdoor with red LED:

- Consists of 3 modules which are mounted onto metal frame
- LEDs in red color with white captions enhance scoreboard's readability
- Running time: 99:59 minutes up/down (30 cm red digits), last minute of match will run down in 1/10 seconds
- Day time (real clock) can be displayed on the "running time" section of the scoreboard
- Score: 0 to 199 each side (30 cm red digits)
- Period: 0 to 9 (20 cm red digit)
- 10 min.: 0 to 19 each side (20 cm red digits)
- Time out: 1 x 5 cm diameter LED cluster each side
- Penalties: Two running penalty timers per team: 0 - 9:59 minutes (20 cm red digits)
- Player numbers: 0 to 99 (20 cm red digits)
- Horn
- Power supply: 110/220 VAC - 50/60 Hz
- Dimensions: 6000 x 1500 x 70 mm
- Weight: about 135 kg

Terminal:
CKN micro controller based command console with LCD data display, integrated keyboard and built-in beeper for confirmation of key-contact. The terminal will memorise the data of the board in case of power failure (no batteries are necessary). The time of day can be shown on the Score Board when it is not in use for a game.

Weightlifting Score Boards

Model D-BVDT-S2



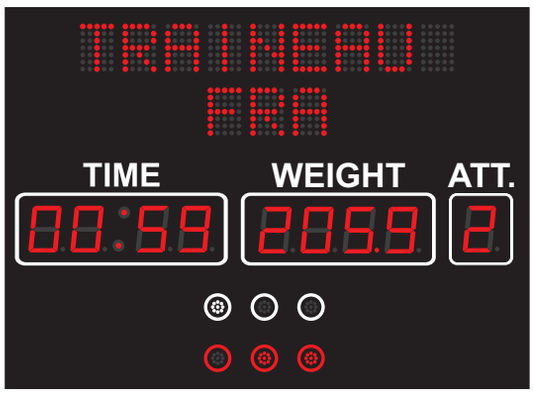
ATTEMPT, DECISION LIGHTS AND TIMER BOARD

Dimensions:	1100 x 600 x 70 mm
Weight:	15 kg

SHOWING:

Time, Weight, Att.:	100 mm high LED digits
Referees' Light System:	6 x 30 mm diameter LED cluster
Captions:	60 mm high
Power supply:	100 -240 VAC

Model D-BVDT-S1



ATTEMPT, DECISION LIGHTS AND TIMER BOARD

Dimensions:	1100 x 800 x 70 mm
Weight:	20 kg

SHOWING:

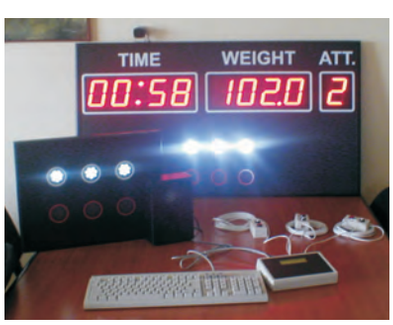
Time, Weight, Att.:	100 mm high LED digits
Contestant name:	100 mm character height (9 characters)
Contestant country:	100 mm character height (3 characters)
Referees' Light System:	6 x 30 mm diameter LED cluster
Captions:	60 mm high
Power supply:	100 -240 VAC

DECISION LIGHTS TABLE
Referee 'decision lights' table DL2 is equipped with three white and three red lights, showing the referees' decisions to the competitors and the audience.

'DOWN' APPARATUS
'Down' apparatus giving a visual and audible 'down' signal can be connected to DL2 or TDL tables.

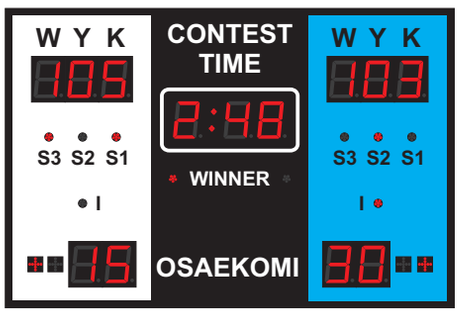
REFEREE BOXES
Referee control box is equipped with two push buttons, one white and one red, one signalling (audible) device and signal cable.

CONTROL CONSOLE
CKN microcontroller based command console with LCD data display, standard keyboard and built-in beeper for confirmation of key-contact.
Total memory in case of power failure (no batteries required).
Instantly indicates when the referees press the appropriate button. Any or all of the referees can be called to the jury table.
Console is also used for setting the timer and start and stop the time and for name and country text entering.



Judo Score Boards

Model D-BVJ

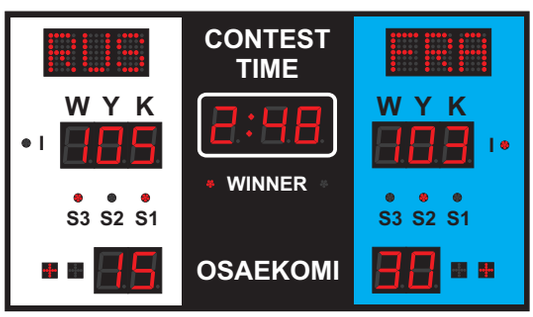


- *Dimensions:* 1200 x 800 x 70 mm
- *Weight:* 20 kg
- *Score digits:* Super bright LED numerals 100 mm high
- *Osaekomi:* Super bright LED numerals 100 mm high
- *Penalties & Winner:* 20 mm diode cluster
- *Power supply*: 110-220 VAC - 50Hz

SHOWS:

- Score (Wazari, Yuko, Koka) display in whole numbers.
- Contest Time.
- Winner indicator lights.
- Penalty indicator lights (Keykoka, Cuji, Sido).
- Ipon indicator lights.

Model D-BVJ-CT



- *Dimensions:* 1400 x 800 x 70 mm
- *Weight:* 25 kg
- *Score digits:* Super bright LED numerals 100 mm high
- *Osaekomi:* Super bright LED numerals 100 mm high
- *Penalties & Winner:* 20 mm diode cluster
- *Power supply:* 110-220 VAC - 50Hz

SHOWS:

- Score (Wazari, Yuko, Koka) display in whole numbers.
- Contest Time.
- Winner indicator lights.
- Penalty indicator lights (Keykoka, Cuji, Sido).
- Ipon indicator lights.
- Contestant Country (2 x 3 characters)

Model D-BVJ-T

- *Dimensions:* 1800 x 900 x 70 cm
- *Weight:* 40kg
- *Score digits:* Super bright LED numerals 100 mm high.
- *Osaekomi:* Super bright LED numerals 100 mm high.
- *Penalties & Winner:* 20 mm diode cluster
- Power supply: 110-220 VAC - 50Hz

- **SHOWS:**
- Score (Wazari, Yuko, Koka) display in whole numbers.
- Contest Time.
- Winner indicator lights.
- Penalty indicator lights (Keykoka, Cuji, Sido).
- Ipon indicator lights.
- Contestant Name (2 x 9 characters)
- Contestant Country (2 x 3 characters)

CONTROL CONSOLE

CKN microcontroller based command console with LCD data display, standard keyboard and built-in beeper for confirmation of key-contact.
Total memory in case of power failure (no batteries required). Instantly indicates when the referees press the appropriate button. Any or all the referees can be called to the jury table. Console is also used for setting the timer and start and stop the time and for name and country text entering.

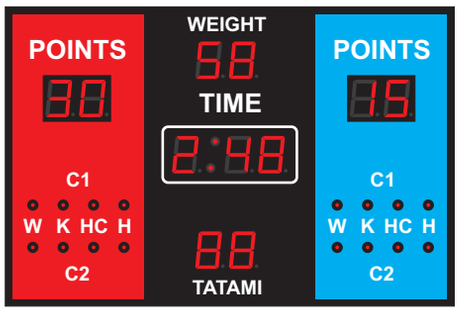
OPTIONS:

All scoreboard models can be:

- *DS - Double side*
- *ST - Stand with 4 wheels*

Karate Score Boards

Model D-BVK

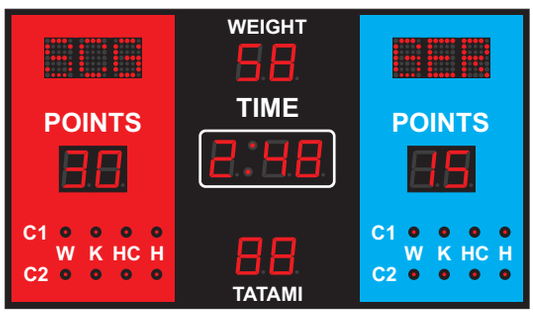


- *Dimensions:* 1200 x 800 x 70 mm
- *Weight:* about 25 kg
- *All digits:* Super bright LED numerals 100mm high.
- *Penalties C1 & C2 (W, K, HC, H):* 10 mm LED
- *Power supply:* 110-220 VAC - 50Hz

SHOWS:

- Score (Shiro & Aka) display in whole numbers.
- Current time of round.
- Penalty indicator lights.
- Weight display.
- Tatami display.

Model D-BVK-CT

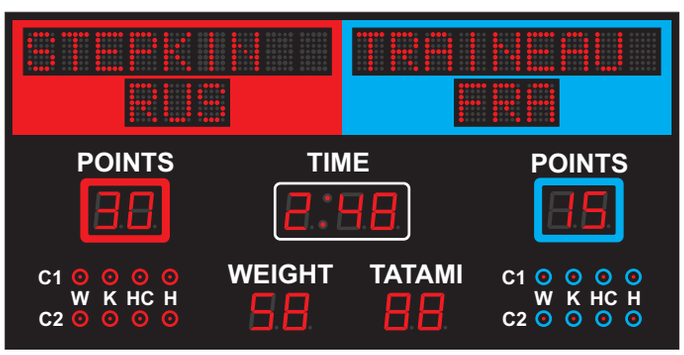


- *Dimensions:* 1400 x 800 x 70 mm
- *Weight:* about 30 kg
- *All digits:* Super bright LED numerals 100mm high.
- *Penalties C1 & C2 (W, K, HC, H):* 10 mm diodes
- *Power supply:* 110-220 VAC - 50Hz

SHOWS:

- Score (Shiro & Aka) display in whole numbers.
- Current Time of round.
- Penalty indicator lights.
- Weight display.
- Tatami display.
- Contestant country (2 x 3 characters)

Model D-BVK-T



- *Dimensions:* 1800 x 900 x 70 mm
- *Weight:* about 40 kg
- *All digits:* Super bright LED numerals 100mm high.
- *Penalties C1 & C2 (W, K, HC, H):* 10 mm diodes
- *Power supply:* 110-220 VAC - 50Hz

SHOWS:

- Score (Shiro & Aka) display in whole numbers.
- Current time of round.
- Weight display.
- Tatami display.
- Penalty indicator lights.
- Contestant name (2 x 9 characters)
- Contestant country (2 x 3 characters)

CONTROL CONSOLE
CKN microcontroller based command console with LCD data display, standard keyboard and built-in beeper for confirmation of key-contact. Total memory in case of power failure (no batteries required).
Instantly indicates when the referees press the appropriate button. Any or all of the referees can be called to the jury table.
Console is also used for setting the timer and start and stop the time and for name and country text entering.

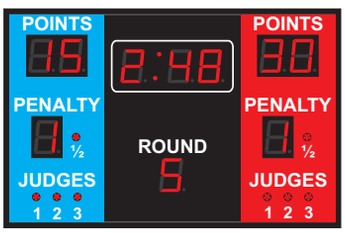
JUDGES VOTING SYSTEM
Judges Voting System with five judges console (1 button for red and 1 button for blue competitor) allows voting during kata competitions.

OPTIONS:

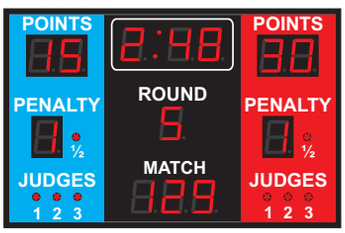
- *DS - Double side*
- *ST - Stand with 4 wheels*
- *Wireless Control System*

Teakwondo Score Boards

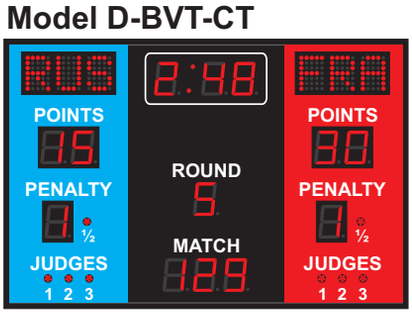
Model D-BVT-0



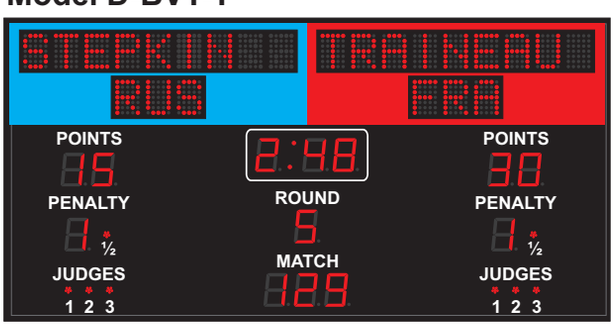
Model D-BVT



Model D-BVT-CT



Model D-BVT-T



Model D-BVT-0
- *Dimensions:* 1000 x 650 x 70 mm
- *Weight:* 13 kg

Model D-BVT
- *Dimensions:* 1000 x 650 x 70 mm
- *Weight:* 13 kg

Model D-BVT-CT
- *Dimensions:* 1200 x 800 x 70 mm
- *Weight:* 20 kg

Model D-BVT-T
- *Dimensions:* 1800 x 900 x 70 mm
- *Weight:* 40 kg

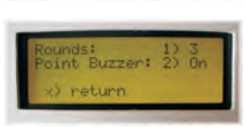
All models:
- *Digits:* 100 mm high LED digits
- *Contestant name & country:* 100 mm high
- *Judge 1, 2, 3, Penalty ½:* 20 mm diode cluster
- *Power supply:* 110-220 VAC - 50Hz

SHOW:
All models:
- RED (Hong) score display in whole numbers.
- Current time of round.
- Current round number.
- Current match number.
- Full point deductions (gam-jeom).
- Judge indicator lights
- Half point deductions (kyung-go) indicator light.
- Blue (Chung) score display in whole numbers.

Model D-BVT
- additionally match no.

Model D-BVT-CT
- additionally match no.
- additionally contestant country (2 x 3 characters)

Model D-BVT-T
- additionally match no.
- additionally contestant country (2 x 3 characters)
- additionally contestant name (2 x 9 characters)



CONTROL CONSOLE AND JUDGES VOTING SYSTEM
CKN microcontroller based command console with LCD data display, standard keyboard and built-in beeper for confirmation of key-contact.
Total memory in case of power failure (no batteries required).
Judges Voting System has three judges console with 2 buttons for red and 2 buttons for blue competitor.

Controllable Options from the Console:
- Scoreboard Diagnostic
- Time window for judge decision adjustment - control of the time in which two judges must agree that a point is scored. Default is 1 second, but can be adjusted. No other system can do that!
- Point Buzzer - the buzzer for the points scored can be turned off. Very convenient for smaller venues where noise is a problem. When this option is off only the round and break buzzers are active.
- Break Length - Adjustable time for break between rounds.
- Round Length - Adjusts the time for the rounds.
- Number of rounds - Adjusts the number of rounds in a match.

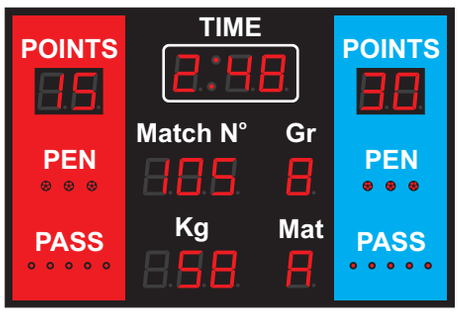
More scoreboards can be connected to one control system.

Options:
- *ST - Stand with four wheels*
- *DS - Double sided models*

ALGE-TIMING GmbH&Co, Rotkreuzstrasse 39, A-6890 Lustenau, AUSTRIA, Tel: +43-5577-85966, Fax: +43-5577-85966-4, office@alge-timing.com

Wrestling Score Boards

Model D-BVR

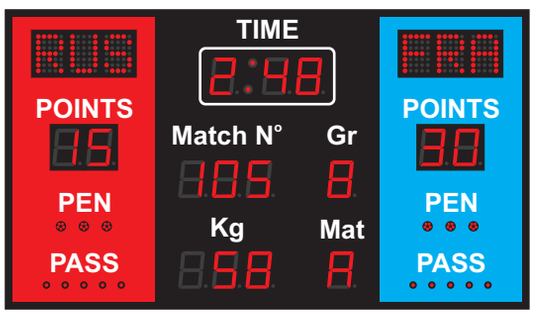


- *Dimensions:* 1200 x 800 x 70 mm
- *Weight:* 20 kg
- *Score digits, Match No, Kg, Gr, Mat, Time :* 100 mm high.LED digits
- *Penalty:* 20 mm diode cluster
- *Passive:* 10 mm diodes
- *Power supply:* 110-220 VAC - 50Hz

SHOWS:

- Red and blue score display in whole numbers.
- Current time.
- Penalty indicator lights.
- Match no, kg, gr, mat.
- Red and blue passive.

Model D-BVR-CT

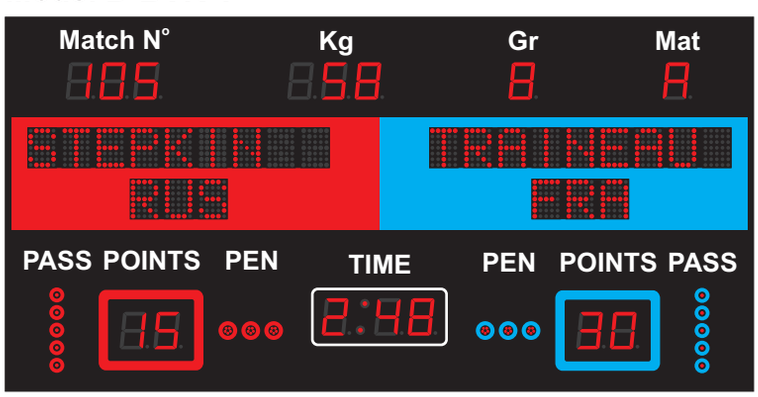


- *Dimensions:* 1400 x 800 x 70 mm
- *Weight:* 25 kg
- *Score digits, Match No, Kg, Gr, Mat, Time :* 100 mm high LED digits.
- *Penalty:* 20 mm diode cluster
- *Passive:* 10 mm diodes
- *Power supply:* 110-220 VAC - 50Hz

SHOWS:

- Red and blue score display in whole numbers.
- Current time.
- Penalty indicator lights.
- Match no, kg, gr, mat.
- Red and blue passive.
- Contestant country (2x3 characters)

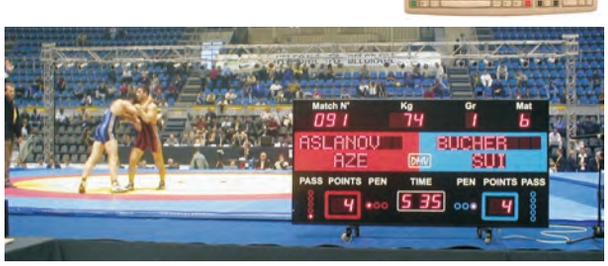
Model D-BVR-T



- *Dimensions:* 2000 x 1000 x 70 mm
- *Weight:* 40 kg
- *Score digits, Match No, Kg, Gr, Mat, Time :* 100 mm high.
- *Penalty:* 20 mm diode cluster
- *Passive:* 10 mm diodes
- Super bright LED numerals
- *Power supply:* 220 VAC - 50Hz

SHOWS:

- Red and blue score display in whole numbers.
- Current time.
- Penalty indicator lights.
- Match no, kg, gr, mat.
- Red and blue passive.
- Contestant name (2x9 characters)



CONTROL CONSOLE
CKN microcontroller based command console with LCD data display, standard keyboard and built-in beeper for confirmation of key-contact. Total memory in case of power failure (no batteries required).
Instantly indicates when the referees press the appropriate button. Any or all of the referees can be called to the jury table.
Console is also used for setting the timer and start and stop the time and for name and country text entering.

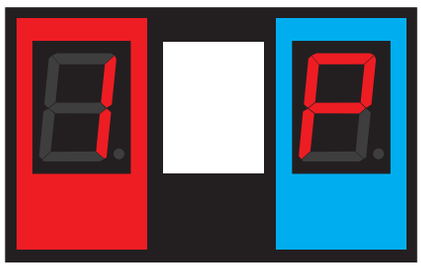
OPTIONS:

All scoreboard models can be:

- *DS - Double side*
- *ST - Stand with 4 wheels*
- *Wireless Control System*

Wrestling Score Boards

Model D-BVR-SP

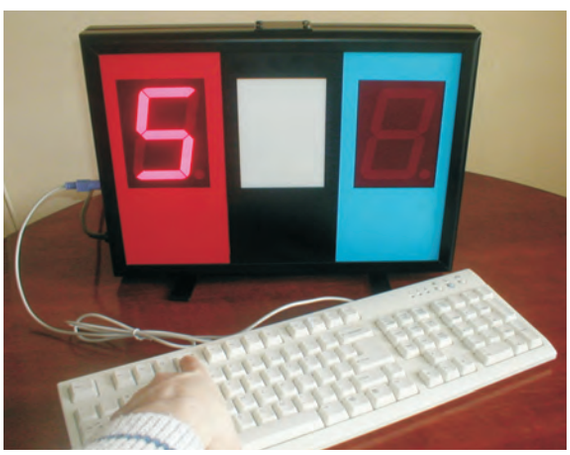


Small transportable Score Board D-BVR-SP for Wrestling:

- *Dimension:* 400 x 280 x 70 mm
- *Weight:* 2 kg

SHOW:

- *Blue and Red contestants points*: 100 mm red digits
- *White light indicator*
- *Power supply:* 220 VAC-50Hz



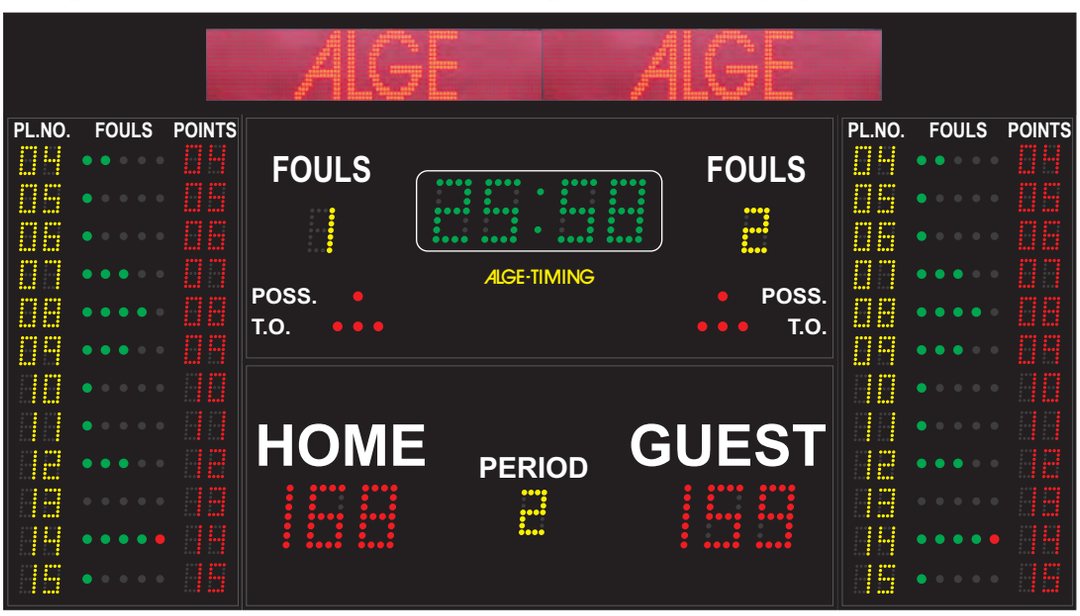
KEYBOARD:

- Point keys 1, 2, 3, 5, O, P for both contestants.
- Key for white light indicator.

Examples of Customized Solutions

Example:
Customer designed Hockey Scoreboard with integrated videowall with four faces

Example:
Customer designed Basketball Scoreboard with integrated matrix display field (red LED)



Notes

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