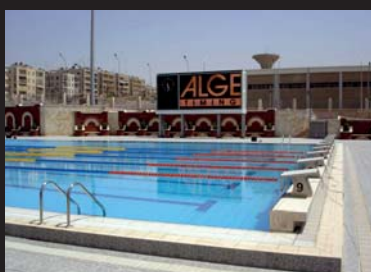


ALGE-TIMING

The Specialist for Swimming



ALGE

TIMING

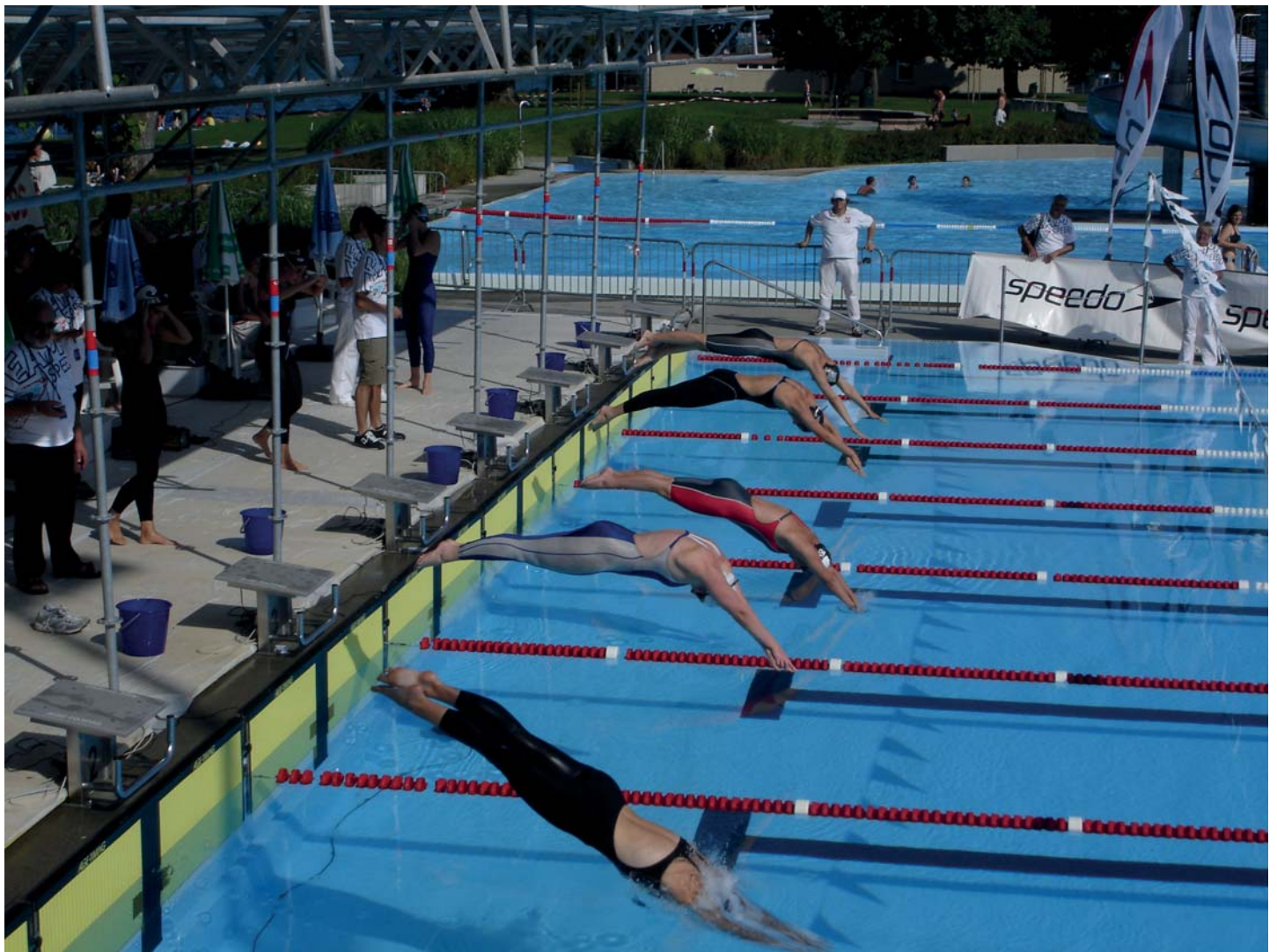


SWIMMING

ALGE-TIMING offers the complete technical equipment for carrying out swimming competitions from little local events to major meetings. Also for training **ALGE-TIMING** offers the ideal timing devices.

Many years of experience in timing the most different sports pay off. **ALGE-TIMING** has solutions for swimming that will inspire you.

The rugged design and the best material guarantee a long lasting timing without problems using the **ALGE-TIMING** system.



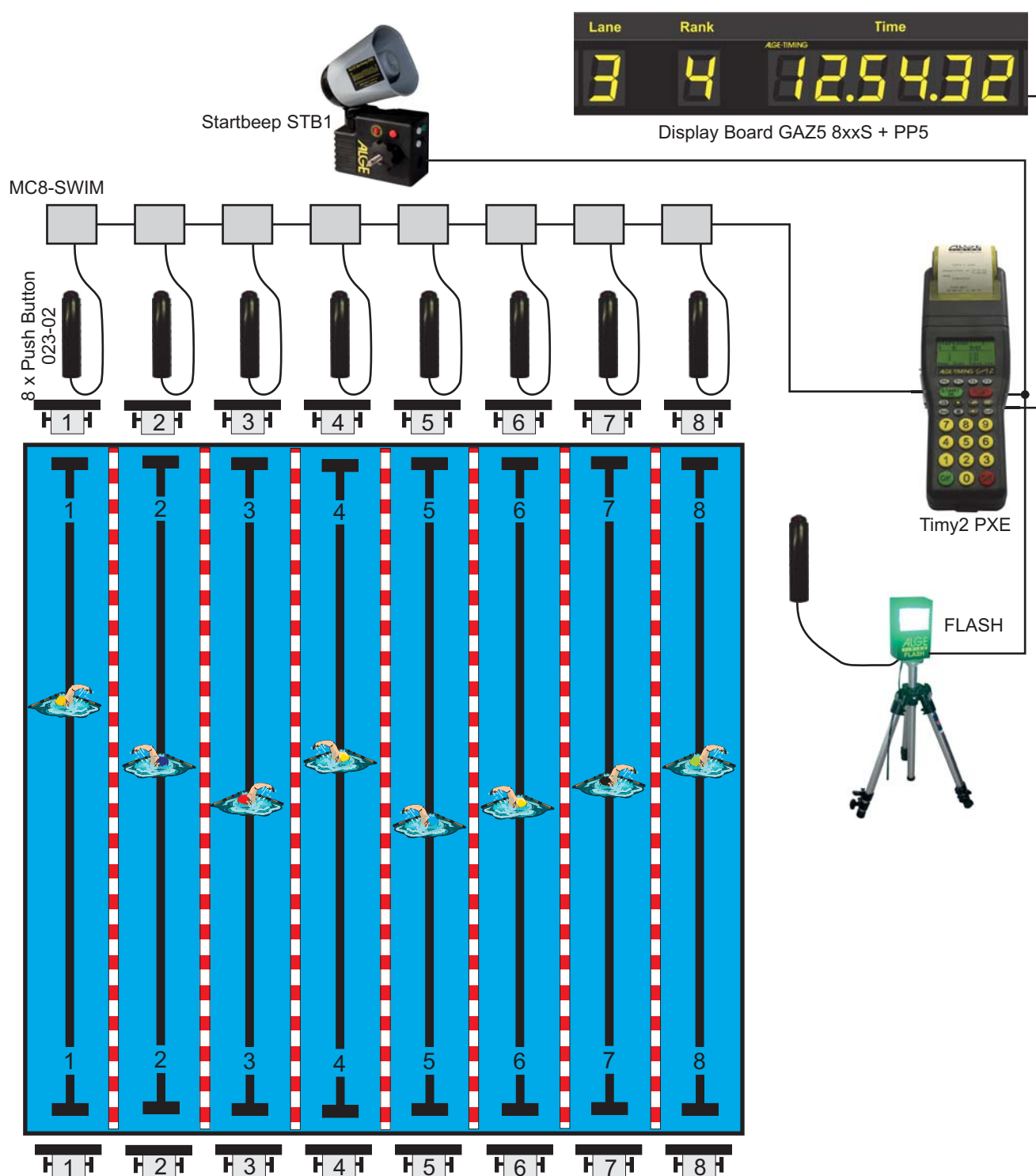
On the following pages you find diagrams showing a semi-automatic timing system and a complete swimming system. Please contact your local **ALGE** representative for the various solutions **ALGE-TIMING** offers for swimming.

SWIMMING

Semi-Automatic Timing System

A semi-automatic timing system is a low priced timing system with manual finish triggering. For each lane a manual push button with its own timing channel is at hand. By this, the ranking is determined immediately at finish and is printed.

The manual push buttons are connected by a special cable MC8-SWIM. The start can be effected by the startbeep STB1. Naturally, it is possible to connect various display boards to the Timy2.

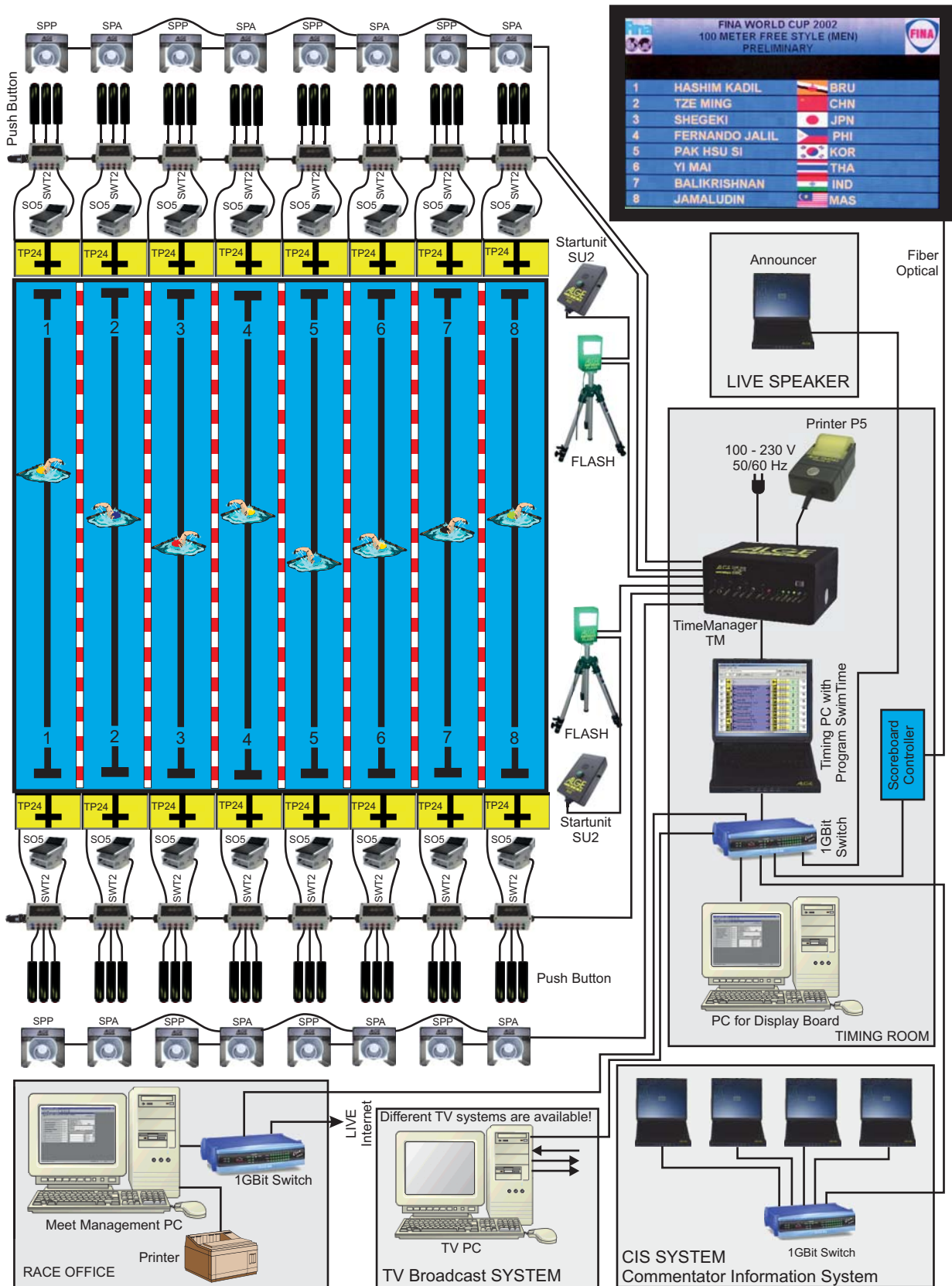


SWIMMING

Fully Automatic Timing System

A fully automatic timing system is a system with which the swimmer of each lane stops the time by touching the touchpad. In addition, it is possible to connect for each lane up to three manual push buttons and a relay judging sensor.

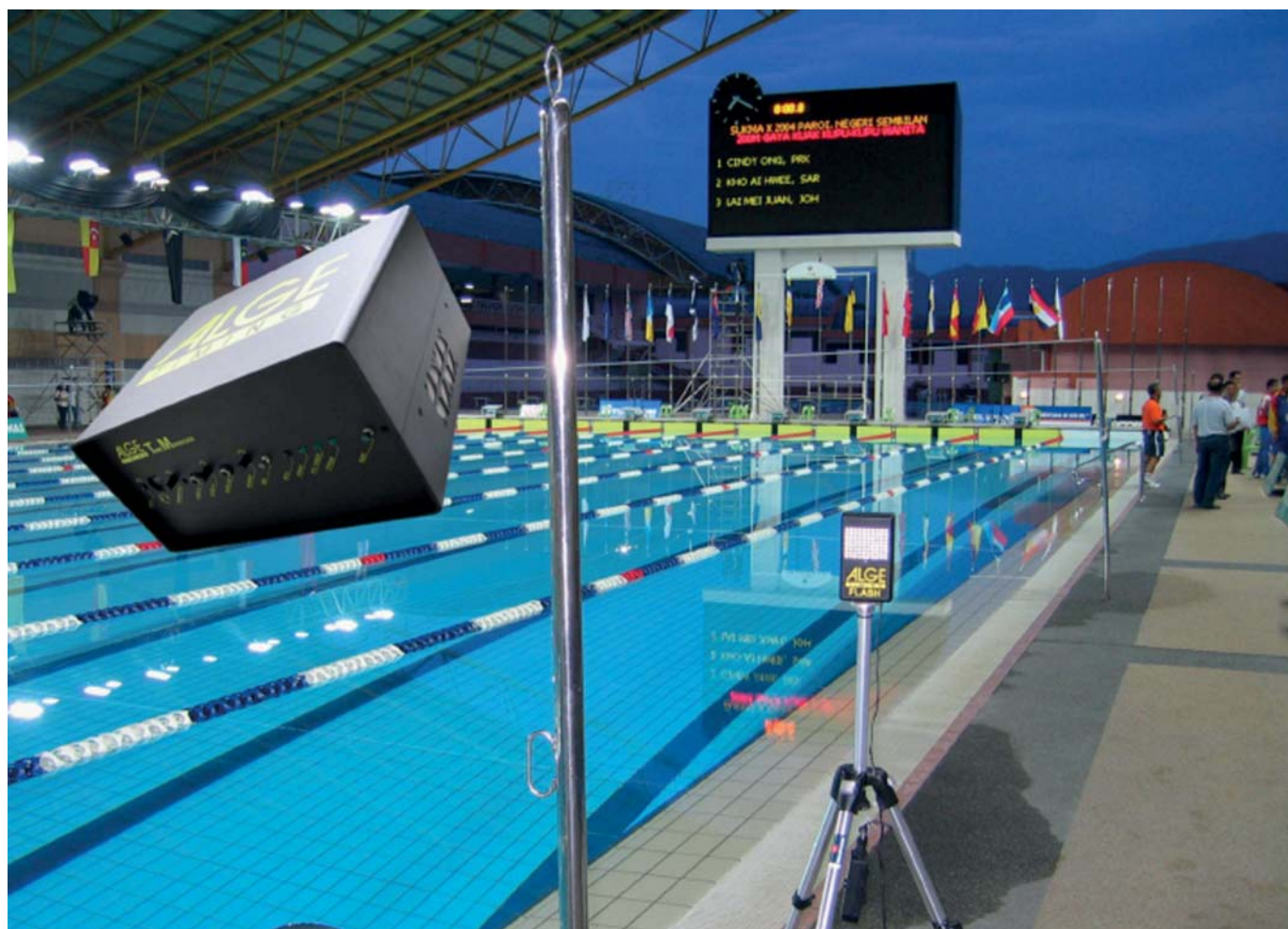
At the start speakers are positioned. They are used by the starter to give his commands and also the starting signal. This system can be extended so that even the largest event can be carried out without any problems.



SWIMMING

Fully Automatic Timing System

SwimTime with Time Manager TM-SWIM
NEW TECHNOLOGIES THAT MAKE TIMING A PLEASURE!



Features of the **ALGE** TimeManager TM-SWIM System:

- PC based timing system
- USB interface to connect the timing system with new generation of computers and notebooks
- easy to operate
- possibility to control up to 16 lanes with touchpads on each side
- all lanes are controlled by optical and by acoustical 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)
- 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 a time difference between manual button and touchpad or too high a lap difference
- most reliable and rugged touchpads
- recording of statistical data like reaction time, block-off time, etc.
- complies with FINA, SSCH, AAU, NCAA and LEN rules

SWIMMING

Fully Automatic Timing System SwimTime with TimeManager TM-SWIM

The TMS has been especially designed for the tough requirements in swimming. As first timing device for swimming, the TM-SWIM provides a USB interface in order to meet the demands of modern notebooks. It combines know-how, most modern electronics and rugged **ALGE-TIMING** design.

The integrated audio amplifier and the integrated backup battery make the Time Manager unrivalled by its competitors.

All timing functions are directly executed and saved in the TMS. The computer only serves for visualisation and control of the Time Manager. Once a competition is set, the computer is not needed anymore. The Time Manager executes the competitions automatically and sends the times to the PC software so that the user can follow the competition at the convenient user interface.

Technical Data: TimeManager TM-SWIM:

Measuring Range:	23 hours, 59 minutes, 59.9999 seconds
Time Reference:	TCXO 10.000MHz (temperature compensated quartz 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



SWIM Terminal SWT2:

For every lane a Swim Terminal is required. All terminals are identical and are not numbered internally. When switching on, the TMS automatically detects how many lanes are connected to the system and numbers them according to the settings. Every Swim Terminal has five independent channels:

- 1 x touchpad
- 3 x manual push button
- 1 x relay sensor



Printer P5:

Printing of all impulses live from the TMS.

- Competition number and lap number
- Competition name
- Sex
- Times (start, startblock, touchpads, manual push buttons)
- Times outside a lap are printed in daytime format
- Printing speed: 5 lines a second

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SWIMMING

Fully Automatic Timing System SwimTime with TimeManager TM-SWIM

PC Software

The **ALGE** SwimTime software for the TM-SWIM manages the timing with a great overview (graphical layout) and has ideal interfaces to common swimming meet management software. The timing is managed on one PC and the meet management on another (or several others).

The SwimTime software works with all current Microsoft Windows versions (Windows XP, Windows Vista, Windows7, Windows 8).

TIMING - PROGRAM

menu bar

race selection

competitor data

block time of start side

lane number

status line

lap time

total time

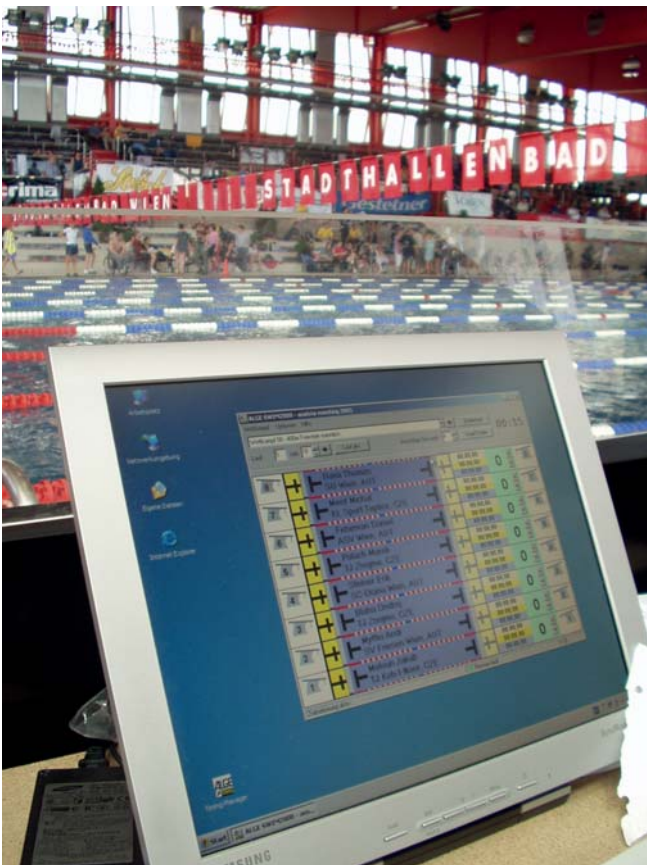
manual time

number of touches

block time of start side

lane with swimmer who did not start (DNS)

free lane



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 free software update
- battery backup
- clearly arranged event protocol
- possibility to operate with 16 lanes
- competitor details also for the timekeeper
- lots of useful control functions



SWIMMING

Fully Automatic Timing System Overview of Components



Time Manager TM-SWIM:

The high-tech device TM-SWIM collects and stores all data on Flash-Rom, galvanically separated interfaces, acoustic part and synchronous input-output.



SWIM Terminal SWT2:

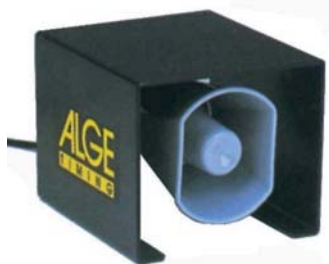
The terminals are connected with only one cable from terminal to terminal. At the last terminal you have to connect an SWT-END. All terminals are identical. No numbering!!

Each SWT2 includes sockets for 1 touchpad, up to 3 separate push-buttons 023-02 and one Start Block.



STARTUNIT SU2:

with integrated microphone and start push button



Speakers SPA and SPP:

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



LED-Display Boards:

Available with different technologies as numerical 7-segment board up to matrix videowalls!



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 (back-side 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



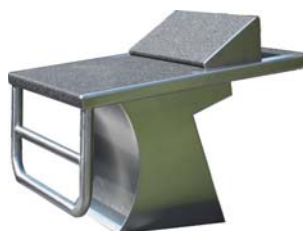
Push Button 023-02:

waterproof rugged construction, cable length 2 m



Starting Block SO 3:

modern design made of LDPE (low-density polyethylene) with adjustable footrest which can be removed without any tools!



Starting Block SO 4:

modern design made of stainless steel (1.4571) with adjustable footrest which can be removed without any tools! Different sizes and designs on request.



Relay Start Pad SWR 2:

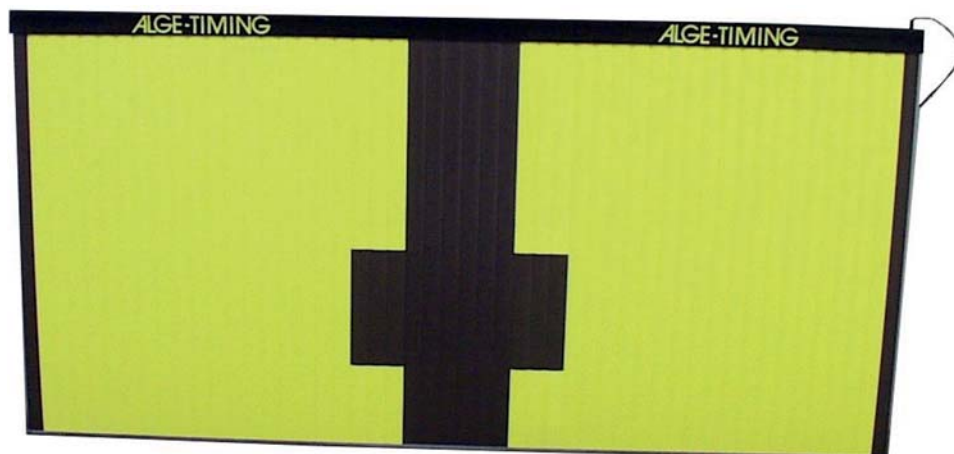
The best solution for existing starting blocks. Different sizes and designs on request.

All components are in accordance with FINA, SSCH, AAU, NCAA and LEN rules

SWIMMING

Touchpads

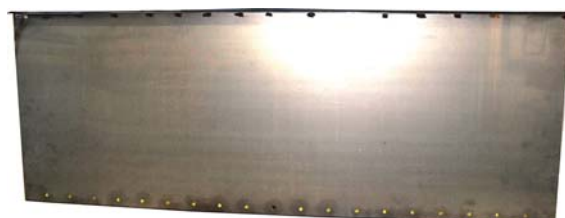
The quality of the touchpad is crucial for a reliable timing. By a closed back, unevenness of the pool is compensated without necessary readjustment. The closed construction (stainless steel 1.4571) guarantees a maximum of product life and operational reliability.



The trolley Caddy-X for transporting and storing the touchpads!

Facts of the Touchpad TP:

- With 4 tapeswitches for a constant sensitivity of 2-3 kg.
- Heavy duty construction
- Closed back to protect the Tapeswitches
- No false impulses by waves
- Simple banana plugs (compatible with most other timing systems, closing contact)
- Touchgrip surface
- 4 standard sizes
- Customized sizes available
- Repairs can be carried out by the client
- Especially designed transport trolley for up to 10 pcs.



The closed back protects the touchpad and thus offers the best possible operating reliability.

Touchpad models:

Touchpad TP24:

Touchpad for olympic pool with lane width of 2.5 m
Dimensions: 2444 x 906 x 10 mm
Weight: standard 28kg, customized 16,5kg
Material: stainless steel 1.4571 and synthetic slats
Sensitivity: 2-3 kg
Complies with FINA, SSCH, AAU, NCAA and LEN rules

Touchpad TP18:

Touchpad for pools with lane width of 2 m
Dimensions: 1852 x 906 x 10 mm
Weight: approx. 21 kg
Material: stainless steel 1.4571 and synthetic slats
Sensitivity: 2-3 kg

Touchpad TP8:

Touchpad for training
Dimensions: 900 x 906 x 10 mm
Weight: approx. 12 kg
Material: stainless steel 1.4571 and synthetic slats
Sensitivity: 2-3 kg



SWIMMING

Starting Blocks



All starting blocks and relay-take-off sensors produced by **ALGE-TIMING** are made from high quality plastic or stainless steel 1.4571 and have integrated sensors to measure the jump from the block. Thus during relay competitions it is possible to check if the swimmer does not jump before the hit. In combination with the new SWT2 you can also measure the jump-off duration.

Starting Block SO5:

The SO5 is made of LDPE (low-density polyethylene) and supplies relay exchange times, block-off times or reaction times. The adjustable footrest enables the swimmers to adjust the distance to the front-edge to have the perfect start position for the step-start. For public use you can remove the foot rest without any tools within a few seconds. The SO5 is built for constant use in indoor and outdoor pools.

Technical Data:

Measuring system: integrated sensor for timing
Adjustable Footrest: adjustable in 6 positions, tool-less removal is possible
Material: LDPE (low-density polyethylene)
Dimensions: 740 x 560 x 400 mm
Weight: 35 kg
Complies with FINA, SSCH, AAU, NCAA and LEN rules



Starting Block SO4:

The SO4 is made from high quality stainless steel 1.4571 and supplies relay exchange times, block-off times or reaction times. The adjustable footrest enables the swimmers to adjust the distance to the front-edge to have the perfect start position for the step-start. For public use you can remove the foot rest without any tools within a few seconds. The SO4 is built for constant use in indoor and outdoor pools.

Technical Data:

Measuring system: integrated sensor for timing
Adjustable Footrest: adjustable in 5 positions, tool-less removal is possible
Material: stainless steel 1.4571, surface treated
Dimensions: 740 x 560 x 400 mm
Weight: 40 kg
Complies with FINA, SSCH, AAU, NCAA and LEN rules



Relay-Take Off Sensor SWR2:

The SWR2 is made from high quality stainless steel 1.4571 and supplies relay exchange times, block-off times or reaction times. The SWR2 can be fastened to most of the starting blocks using the included lashing straps. No screws or other preparations to the starting block are necessary. The especially non-slip, **ALGE** designed surface is indestructible and does not change its features even after many years of hard usage.

Technical Data:

Measuring system: integrated sensor for timing
Material: stainless steel 1.4571, surface treated
Dimensions: 500 x 500 x 20 mm



SWIMMING

Training

ALGE-TIMING has developed a special Timy2 timing program for swimming training with particular measurement features for two training lanes.

The following measurements are available:

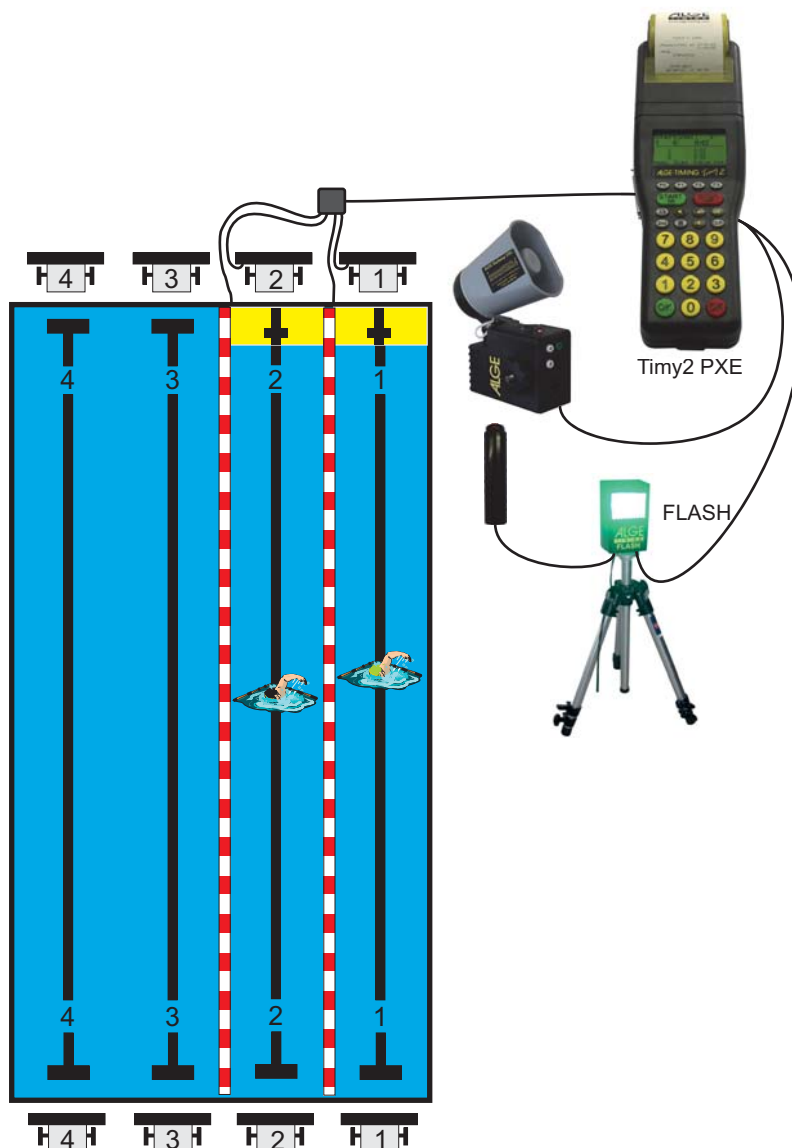
Single Training:

Reaction time	Time after which the swimmer imposes pressure on the starting block
Pressure time	Duration of jump off phase
Block-Off time	Time after which the swimmer leaves the starting block
Touch 1	First touch
Turn time	Time from touch until leaving the touchpad
Touch 2	etc

Relay Training:

Reaction time	Time after which the swimmer imposes pressure on the starting block
Block-Off time	Time after which the swimmer leaves the starting block
Touch 1	First touch
Reaction time	Time after which the swimmer imposes pressure on the starting block
Block-Off time	Time after which the swimmer leaves the starting block
Touch 2	etc

ID:	1/1
Freestyle	
T:02 Touches	
START EXT	
15:42:04.380	
L1 SB+0.10 0.20 +0.29	
L2 SB+0.13 0.34 +0.47	
L2 TP 001 27.35	
L2 TP Turn Time 0.86	
L1 TP 001 28.17	
L1 TP Turn Time 0.64	
L2 TP 002 1:00.14	
L1 TP 002' 1:00.45	
ID:	2/1
Freestyle Relay	
T:04 Touches	
START EXT	
15:42:04.380	
L1 SB+0.10 0.20 +0.29	
L2 SB+0.13 0.34 +0.47	
L2 TP 001 27.35	
L2 SB-0.25 0.30 +0.05	
L1 TP 001 28.17	
L1 SB-0.15 0.25 +0.10	



SWIMMING

Display Boards

ALGE-TIMING offers a large variety of display boards from simple 7-segment display boards (numerical) to videowalls.



7-Segment Display Board



Videowall

Numerical LED Display Systems:

The 7-segment LED display boards are ideal for indoor or outdoor use.

LED Full Color Display Systems and Full Matrix Systems:

ALGE-TIMING also offers first class LED large scale display system for application in stadiums. They meet the highest requirements in indoor as well as in outdoor areas (see Videowall – LED Matrix).

7-Segment LED Display Boards

The display boards of the series D-SWxxx are especially made for indoor or outdoor use. They are controlled by a TimeManager TM-SWIM, Timy2 or Multisport-Console D-CKN. All LED display boards from ALGE-TIMING are produced with superbright LED with a live time of more than 100,000 hours. We can offer display boards from 57 mm to 600 mm figure height.

Figure Height for Indoor Display Boards: 57, 100, 150 and 250 mm

Figure Height for Outdoor Display Boards: 80, 150, 250, 450 and 600 mm

Display Board Type D-SWxx-8-(IO):

This single line display board allows showing the rank, lane and time. From the timing device it is possible to scroll the rank with the times. With the optional console for water polo it is possible to show the game time and score (0 to 9) for water polo.



Example: D-SW25-8-O

Display Board Type D-xxxSWxx-7(8)-(IO):

It is possible to show the time of each swimmer on boards that have one digit line for each swimming lane. This board is available in different configurations. With an optional console for water polo it is also possible to show the game time, score and penalties during water polo games.



Example: D-2x4xSW25-8-O

SWIMMING

Display Boards

Display Board Type D-SWxx-4-(IO):

This model is used additionally to one of the previously described scoreboards to show the current event and heat number. For the models with a figure height of 10 or 15 cm it can be integrated into the case of the scoreboards.

Event 88 Heat 88		ALGE-TIMING	
1	88:88:88	5	88:88:88
2	88:88:88	6	88:88:88
3	88:88:88	7	88:88:88
4	88:88:88	8	88:88:88

Info Display Board Type D-RTNMxx-x-(IO):

The D-RTNM Scoreboards are designed for universal use in swimming stadiums. During swimming competitions they can show the event name, heat number and any kind of advertizing during or after the race. Besides the competition use they can show general information during the normal pool operation. They are available in different sizes and resolutions.

RANK	LANE	TIME	RANK	LANE	TIME	PERIODE
1	88:88:88		5	88:88:88		
	HOME			GUEST		
2	88:88:88		6	88:88:88		
	PENALTY 1			PENALTY 1		
3	88:88:88		7	88:88:88		
	PENALTY 2			PENALTY 2		
4	88:88:88		8	88:88:88		

Personal Foul Display for Waterpolo:

RANK	LANE	TIME	RANK	LANE	TIME	PERIODE
1	88:88:88		5	88:88:88		
	HOME			GUEST		
2	88:88:88		6	88:88:88		
	PENALTY 1			PENALTY 1		
3	88:88:88		7	88:88:88		
	PENALTY 2			PENALTY 2		
4	88:88:88		8	88:88:88		

D-WPF10-(IO) for D-4xSW10-x)

- LED diameter: 10 mm
- LED cluster diameter: 10 mm
- Number of LED per Cluster: 1
- Dimensions: 350 x 900 x 70 mm each side
- Weight: 6.5 kg each side

D-WPF15-(IO) (for D-4xSW15-x)

- LED diameter: 5 mm
- LED cluster diameter: 20 mm
- Number of LED per Cluster: 5
- Dimensions: 400 x 1100 x 70 mm each side
- Weight: 10 kg each side

D-WPF25-(IO) (for D-4xSW25-x)

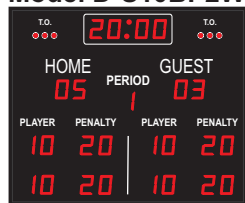
- LED diameter: 5 mm
- LED cluster diameter: 35 mm
- Number of LED per Cluster: 10
- Dimensions: 500 x 1400 x 70 mm each side
- Weight: 15 kg each side

All display boards shown on this page are available for indoor and outdoor use!

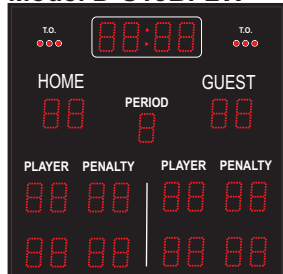
WATER POLO

Display Boards

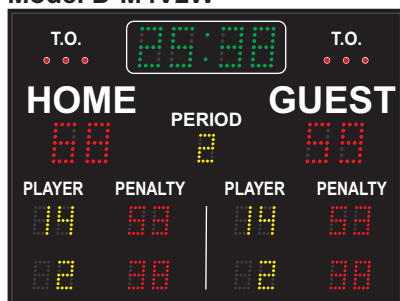
Model D-S10BP2W



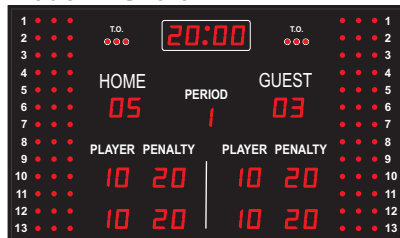
Model D-S15BP2W



Model D-M4V2W



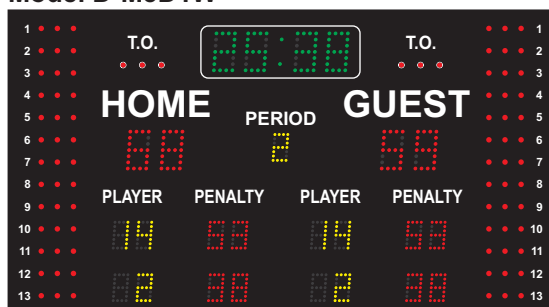
Model D-S10-5W



Model D-S15-5W



Model D-M5D1W



Model D-S10BP2W

- Figure height: 10 cm
- Dimensions: 120 x 100 x 7 cm
- Weight: 25 kg

Model D-S15BP2W

- Figure height: 15 cm
- Dimensions: 140 x 140 x 7 cm
- Weight: 40 kg

Model D-M4V2W

- Figure height: 20 cm (time/score) and 14 cm
- Dimensions: 200 x 150 x 7 cm
- Weight: 60 kg

Model D-S10-5W

- Figure height: 10 cm
- Dimensions: 200 x 120 x 7 cm
- Weight: 45 kg

Model D-S15-5W

- Figure height: 15 cm
- Dimensions: 200 x 140 x 7 cm
- Weight: 55 kg

Model D-M5D1W

- Figure height: 20 cm (time/score) and 14 cm
- Dimensions: 270 x 150 x 7 cm
- Weight: 80 kg

The following is shown on the display board:

- *running time*: 99:59 minutes up/down (green figures, except for S models: red figures), last match minute shows running tenths of a second; day time can be shown in the match time field
- *Goals*: 0 to 99 on each side (red figures)
- *Periode*: 0 to 9 (yellow figures, except for S models: red figures)
- *Time out*: 3 red LED points for each team
- *Penalties*: two penalty times for each team: 0 - 59 seconds (red figures)
- *Player numbers*: 0 to 99 (yellow figures, except for S models: red figures)
- *Personal fouls*: 39 red LED points for each team (models S10EL, S15WL and M6W)

Technical data:

- Power supply: 110-220 VAC-50Hz, shotclocks with 24 VDC directly from main display board
- Horn
- D-CKN Console with LCD display



Console
D-CKN

OPTIONAL:

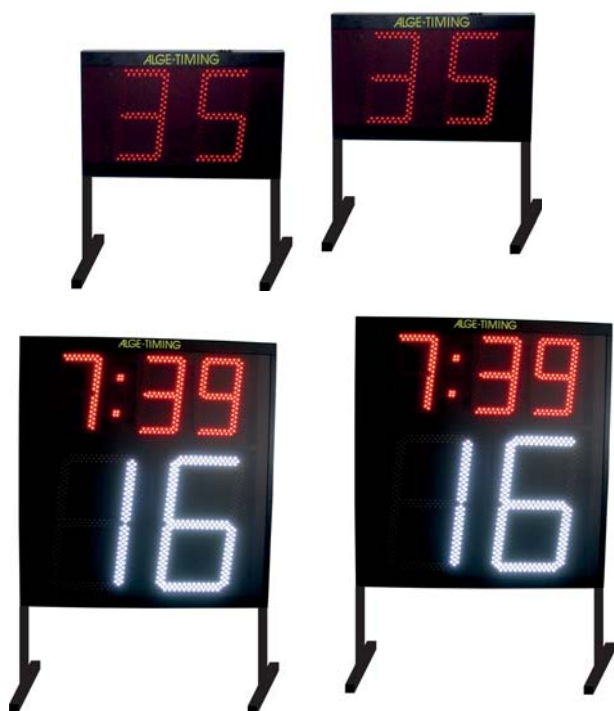
Wireless data transmission between console and main display board is possible, shotclocks require due to safety reasons 12 V from main display board.
All models except for D-S are also available as outdoor models.

WATER POLO

Shot Clocks



Shot Clock for Water Polo:



Technical Details:

- Set consists of two shot clocks with horn
- 15, 25 or 45 cm figure height, on request up to 100 cm (40 in) possible
- Usable for indoor and outdoor!
- Power supply with 24 VDC from main scoreboard
- Works together only with ALGE-TIMING water polo scoreboard with D-CKN.
- Cable must be ordered separately, 200-xx is used!
- Radio not possible

D-SC15W-PH (Indoor) or D-SC15W-PH-O (Outdoor)

- Shot Clock (2 figures): 15 cm
- Measurements: 34 x 25 x 7 cm
- Weight: 1.5 kg each side

D-SC25W-PH (Indoor) or D-SC25W-PH-O (Outdoor)

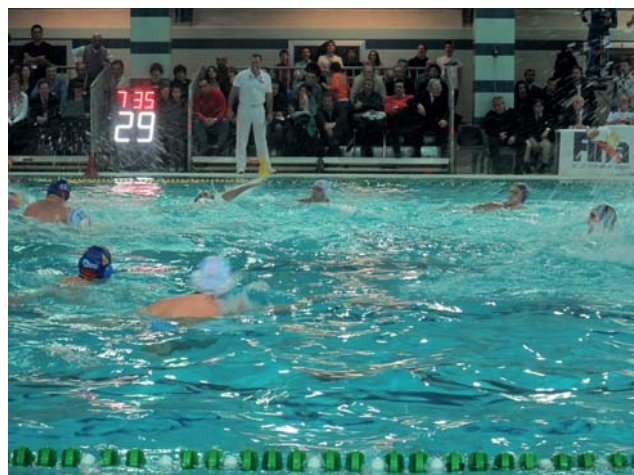
- Shot Clock (2 figures): 25 cm
- Measurements: 45 x 35 x 7 cm
- Weight: 3 kg each side

D-SC25GT15W-PH (Indoor) or D-SC25GT15W-PH-O (Outdoor)

- Game Time (3 figures): 15 cm
- Shot Clock (2 figures): 25 cm
- Measurements: 55 x 55 x 7 cm
- Weight: 6 kg each side

D-SC45GT25W-PH (Indoor) or D-SC45GT25W-PH-O (Outdoor)

- Game Time (3 figures): 25 cm
- Shot Clock (2 figures): 45 cm
- Measurements: 85 x 90 x 7 cm
- Weight: 15 kg each side





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