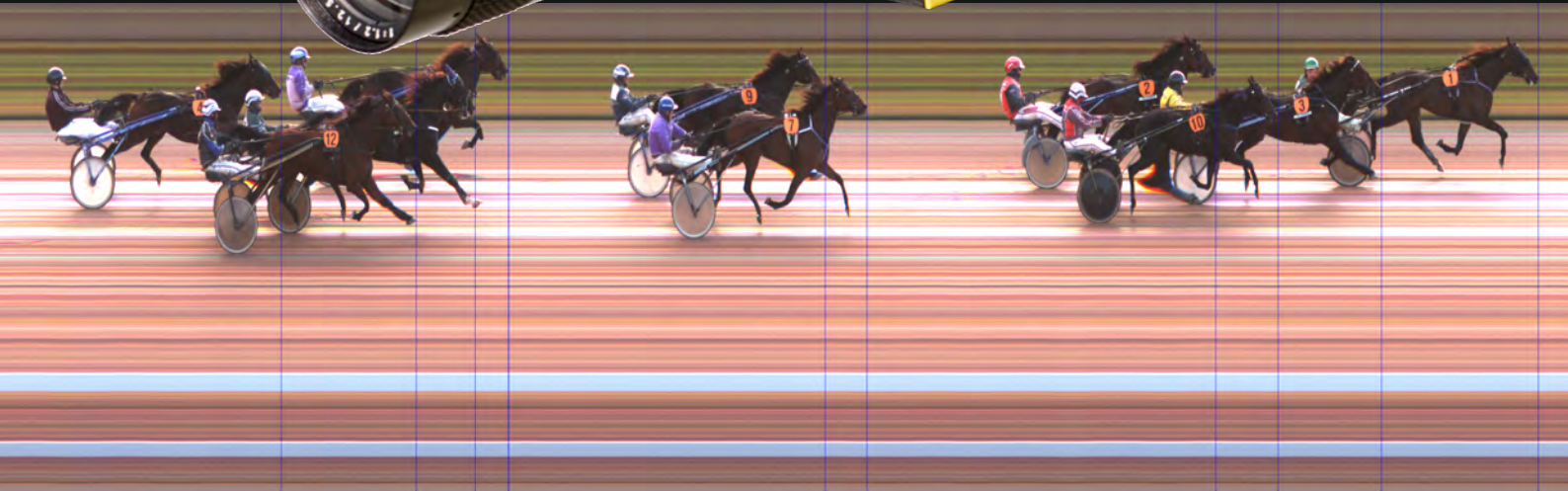


ALGE

TIMING



THE SPORTS TIMING EXPERTS

HORSE RACING
Gallop & Trotting



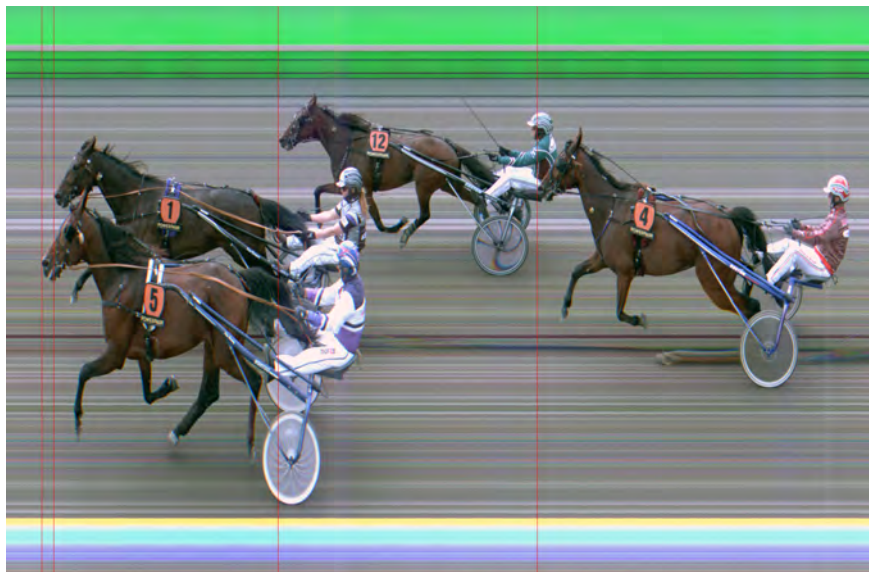
HORSE RACING

Horse race courses may have one or more tracks. When using only one OPTic3 photo finish camera, it must be aligned to the according finish line used. It is also possible to use one camera

per finish line. In addition, the tracks can be equipped with photo-cells, radio transmission, display boards and video screens.



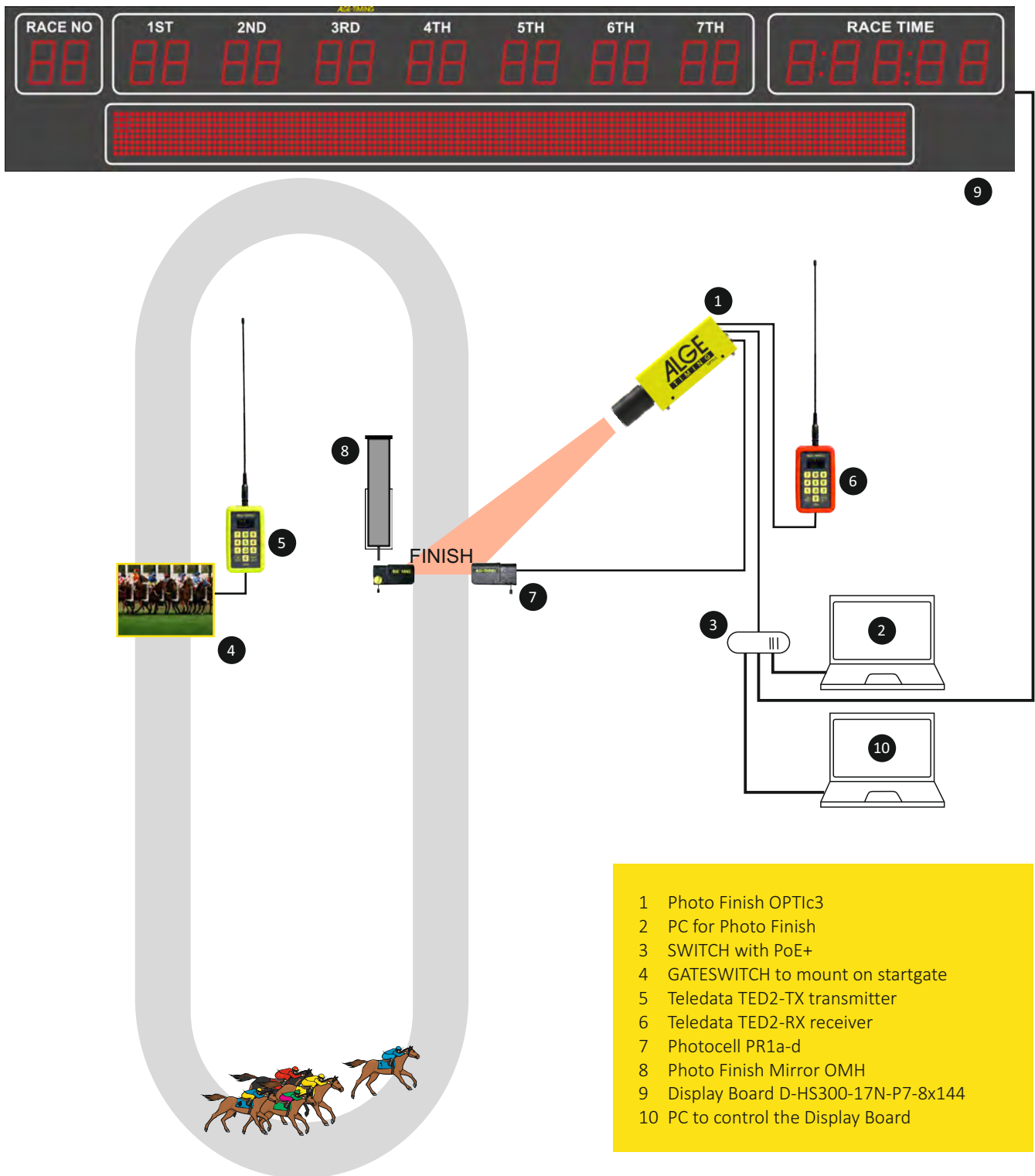
pictures from OPTic3 gallop



pictures from OPTic3 trotting

HORSE RACING

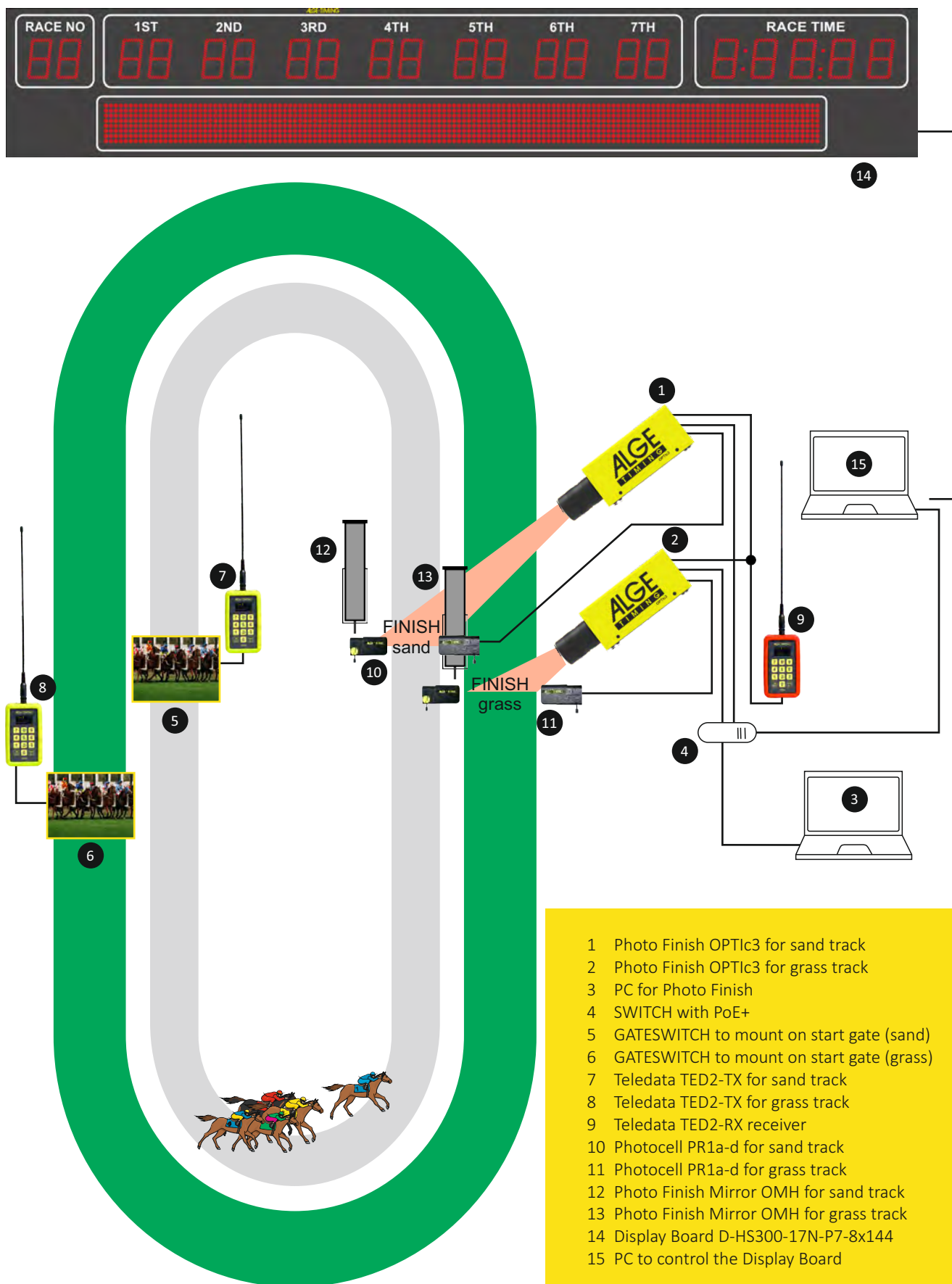
Timing System with One Track





HORSE RACING

Timing System with Two Tracks



HORSE RACING

Photo Finish OPTIc3



The photo finish system OPTIc3 takes over the technical market leadership. It has a recording rate of up to 30,000 frames per second (fps) and up to 2,016 vertical pixels. This makes it the perfect timing device for any sport that relies on good photo finish images and accurate results.

Features such as 2-D images, autofocus, automatic iris adjustment, etc. make the system easy to use. The VoIP allows communication with the starter, and the timekeeper communicates without headset via microphone and speaker of the PC.



Technical Facts:

vertical resolution:	up to 2,016 pixels
scan rate (fps):	up to 30,000 frames per second
recording time:	unlimited, depends on PC hardware
timing:	temperature compensated quartz oscillator TCXO, +/-0.06 ppm at 25 °C (0.0002 s/h)
power supply:	PoE+ or 11.6 - 13.4 VDC
temperature range:	-20 °C to +50 °C

Standard network

It is a simple way to connect almost every PC via Ethernet or WLAN.

Automatic Iris Adjustment

With the motor zoom of ALGE-TIMING you can access functions such as autofocus and automatic iris adjustment.

Live View

The camera image can be viewed via WiFi on a mobile phone or tablet. This allows to adjust the lens of an OPTIc3 camera that is

placed far away from a PC and has no motor zoom in an easy, fast and precise way.

2-D Image Adjustment

With the new 2-D image adjustment (maximum 2,016 x 360 pixels), you can accurately align the camera on the finish line in a very short time.

High-Speed Camera with 2-D Images

With 2-D mode with 100 Hz (100 fps) and full-screen mode, the OPTIc3-PRO is ideal for sports such as swimming and rowing.

Since the OPTIc3 has a built-in timing device, exactly synchronized 100 frames per second can be guaranteed.

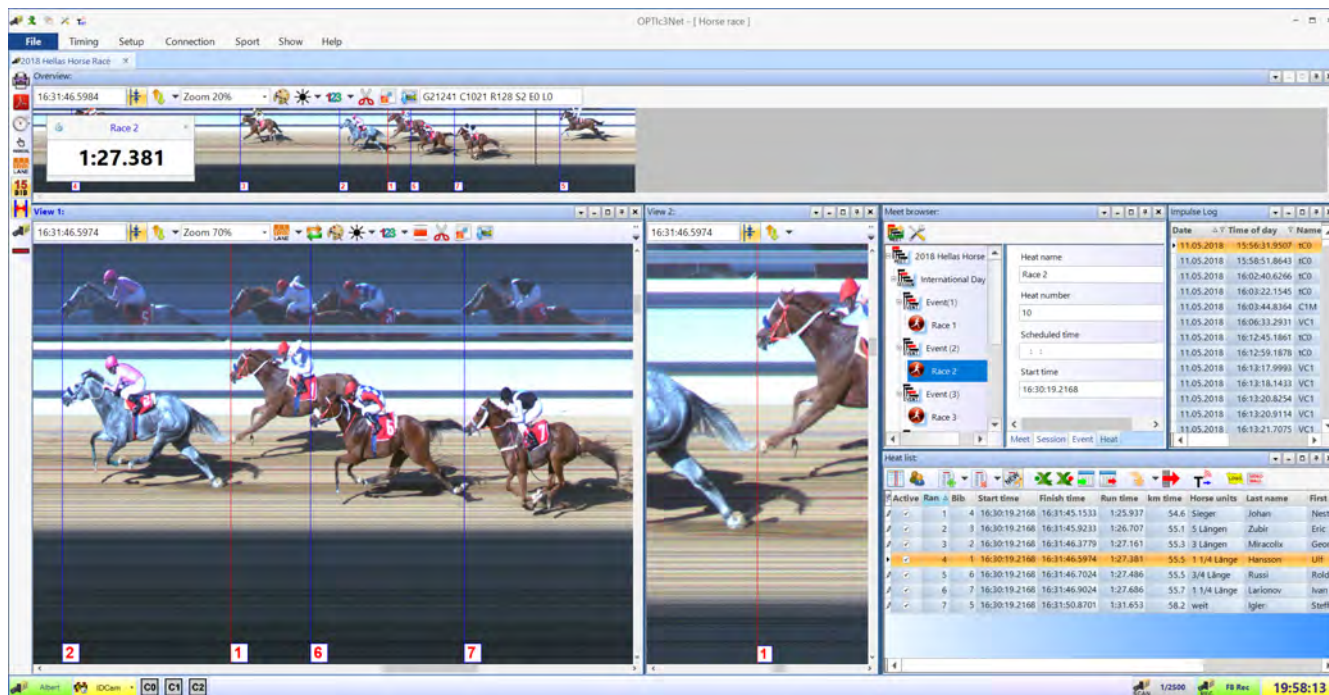
PC Software

The modern, powerful evaluation software for the OPTIc3 enables quick and easy results. It is also possible to record on one PC and execute the evaluation on another. Following operating systems are supported: Windows 7, Windows 8.x, Windows 10, Windows 11 (x86 and x64)



HORSE RACING

Photo Finish OPTIc3



The photo finish system OPTIc3 is available in two versions

OPTIc3 Basic System

photo finish system for the small budget

- recording: up to 3,000 fps
- resolution: 1,360 pixel vertical resolution
- 2-D image preview to set and adjust the camera
- free updates of the OPTIc3NET software
- an upgrade with all features des OPTIc3-PRO is possible

OPTIc3-PRO

The professional photo finish system that leaves nothing to be desired. The following features are integrated:

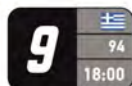
- high-speed recording: up to 30,000 fps
- high resolution: 2,016 pixels vertical resolution (48 % more than OPTIc2)
- 2-D image preview to set and adjust the camera
- eXtremLuX: various technologies for image improvement under bad light conditions
- motion detection: automatic recording with motion detection
- integrated WTN: wireless impulse and data transmission
- high-speed camera: It is possible to record 100 frames per second in the 2-D mode with a resolution of 1,024 x 768 or 360 x 2,016 pixels. The proven IDCam software is available for this function.
- VoIP: voice over IP enables communication with the starter without the PC operator having to use a headset
- recording on a PC, evaluation or photo finish control by judges possible on a second PC
- free updates of the OPTIc3NET software



MARKOPOULO PARK
THE ENTERTAINMENT RIDE

RACE: 5

MAY 15 2018



Results List

Hellas Horse Race - International Competition

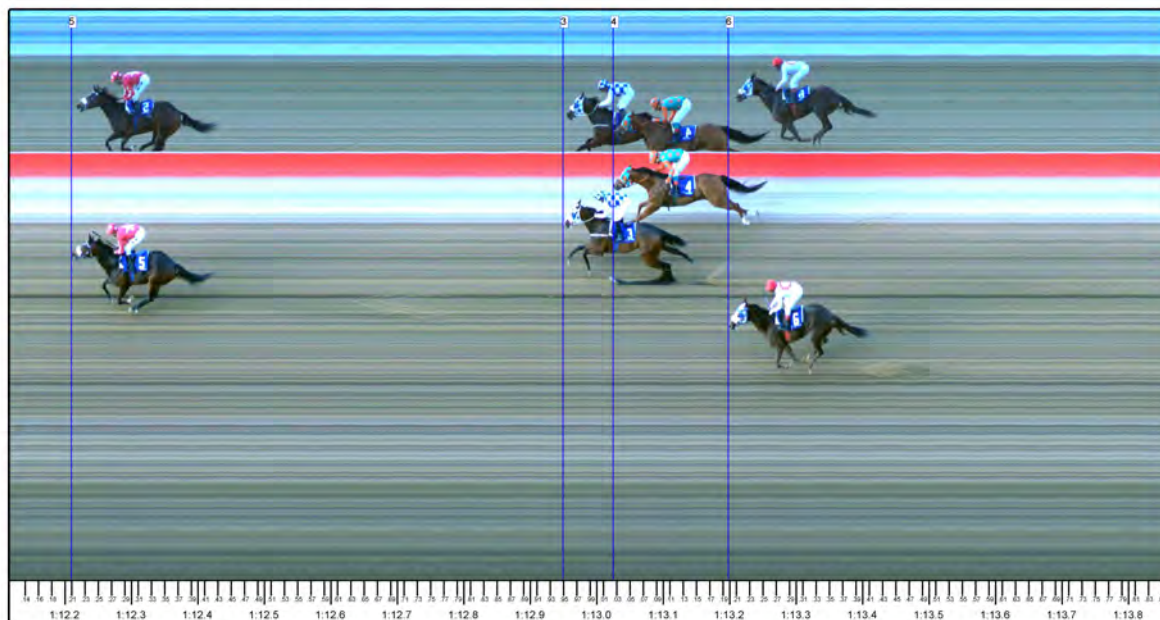
Date: 11.05.2018

Athens

Race 6

Session name: Athens International Cup
Number: 2018-05-11 / 6

Distance: 1200 [m]
Actual start time: 18:34:37



Rank	Bib	Last name	First name	Horse name	Horse owner	Run time	Horse units	km time	Disq.
8	1	DELON	Pierre	Fuego	Enrico Pueblo	1:15.114	3/4 L	1:02.6	
7	2	DELGADO	Pablo	Siesta	Juean Bravo	1:14.999	1 1/2 L	1:02.5	
2	3	ORTATA	Owen	Safari	Francisco Heller	1:12.949	4 L	1:00.8	
3	4	BANDERAS	Manfred	Taifun	Otto Munk	1:13.025	1/2 L	1:00.9	
1	5	ZENGA	Paulo	Fire	Handrik Lundbek	1:12.210	Winner	1:00.2	
4	6	Mc ALLISTER	Omar	Sunset	Fredy Balestrado	1:13.198	1 L	1:01.0	
5	7	MILLER	Frank	Passat	Martha Bluebaker	1:14.583	8 L	1:02.2	
6	8	POSPHIL	Nils	Wirbelwind	Andreas Frankl	1:14.752	1 L	1:02.3	
9	9	ESTRAGON	Antonio	Super Flash	Marc Mac Lean	1:15.485	2 L	1:02.9	
10	10	GRAYLING	Sean	Dream Girl	Arthurio Zakalidis	1:18.273	far	1:05.2	

ΑΡΜΟΔΙΟΣ ΡΥΘΜΙΣΤΗΣ: ΕΕΕΡ. Η ΣΥΜΜΕΤΟΧΗ ΣΕ ΤΥΧΕΡΑ ΠΑΙΓΝΙΑ ΕΠΙΤΡΕΠΕΤΑΙ ΜΟΝΟ ΣΕ ΑΤΟΜΑ ΑΝΩ ΤΩΝ 18 ΕΤΩΝ. Η ΣΥΧΝΗ ΣΥΜΜΕΤΟΧΗ ΕΝΕΧΕΙ ΚΙΝΔΥΝΟΥΣ ΕΘΙΣΜΟΥ ΚΑΙ ΑΠΩΛΕΙΑ ΠΕΡΙΟΥΣΙΑΣ. - ΓΡΑΜΜΗ ΣΤΗΡΙΞΗΣ: 1114

ΠΑΙΞΕ ΥΠΕΥΘΥΝΑ

Photofinish: ALGE-TIMING OPTIc3
Software: ALGE-TIMING OPTIc3.NET

2020-05-22 / 08:53

ALGE-TIMING

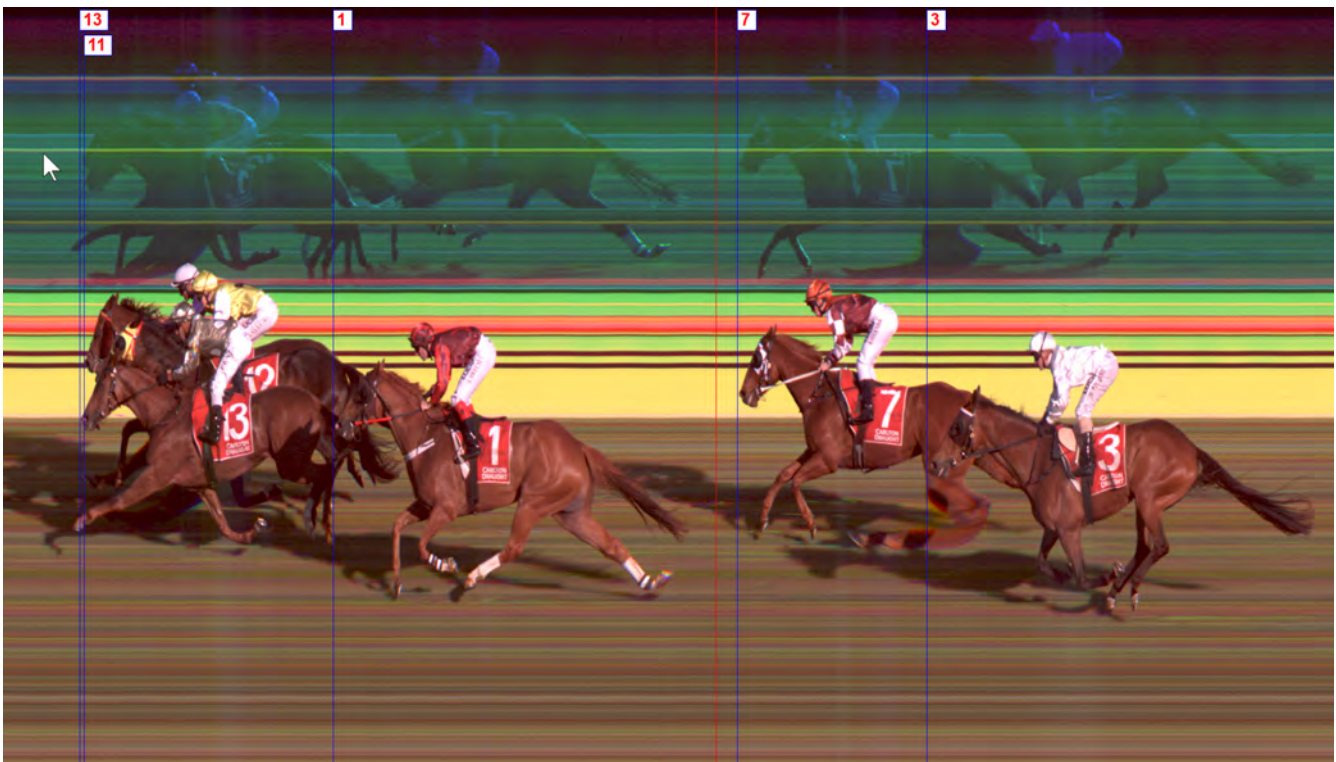
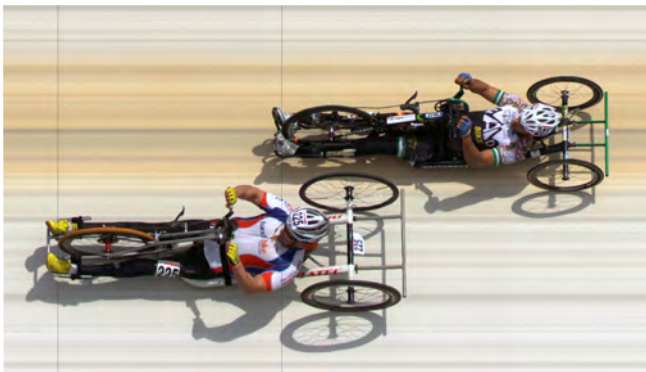
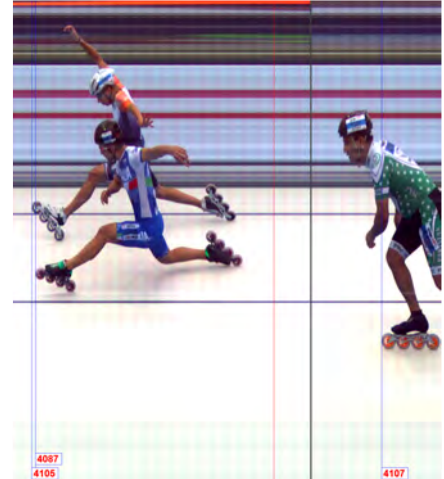
<http://www.alge-timing.com>



HORSE RACING

Photo Finish OPTIc3

The OPTIc3 is used for sports where several participants reach the finish at the same time. In addition, the OPTIc3 is the ideal device to monitor the finish arrival. When discussing a result, the picture of the OPTIc3 shows the proof. Here the saying is true “a picture is worth a thousand words”.



HORSE RACING

Photo Finish OPTIc3

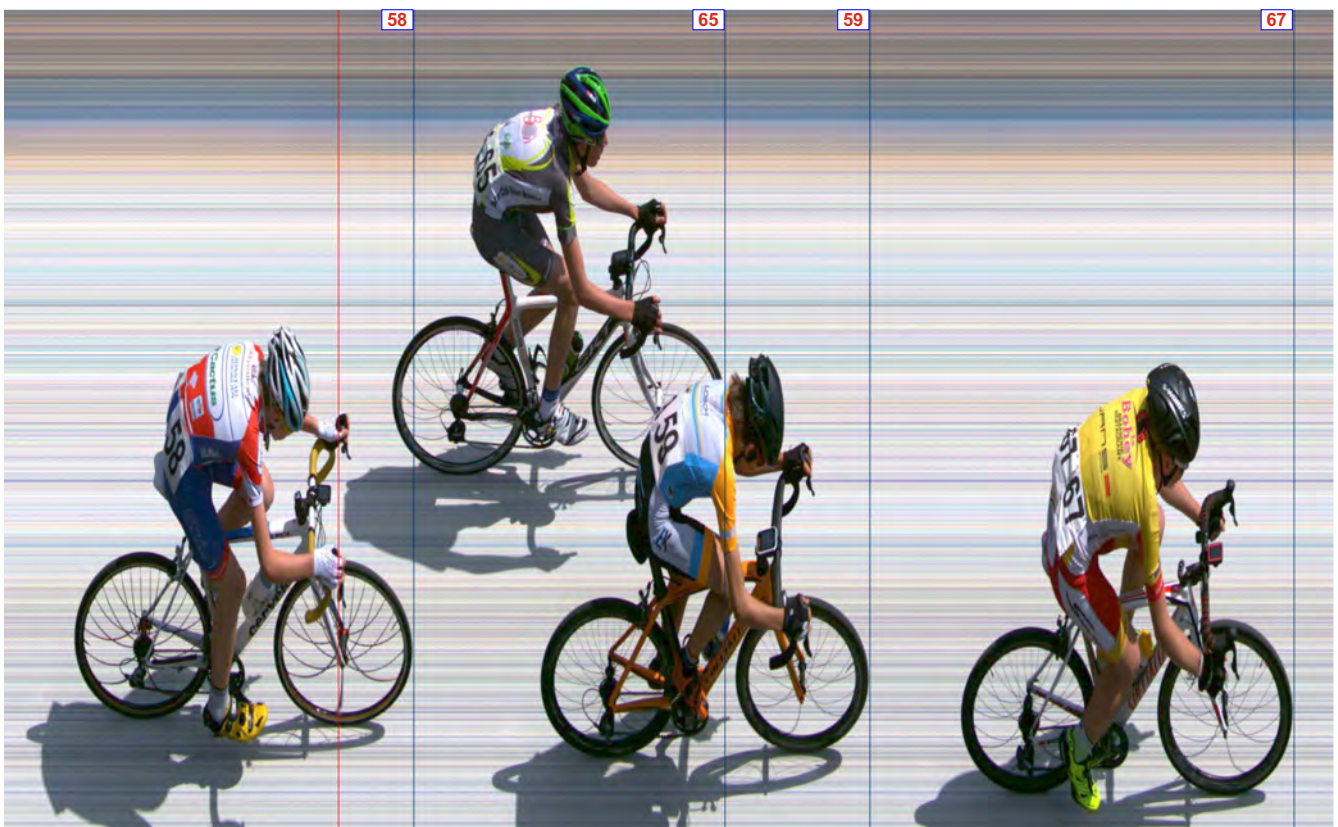
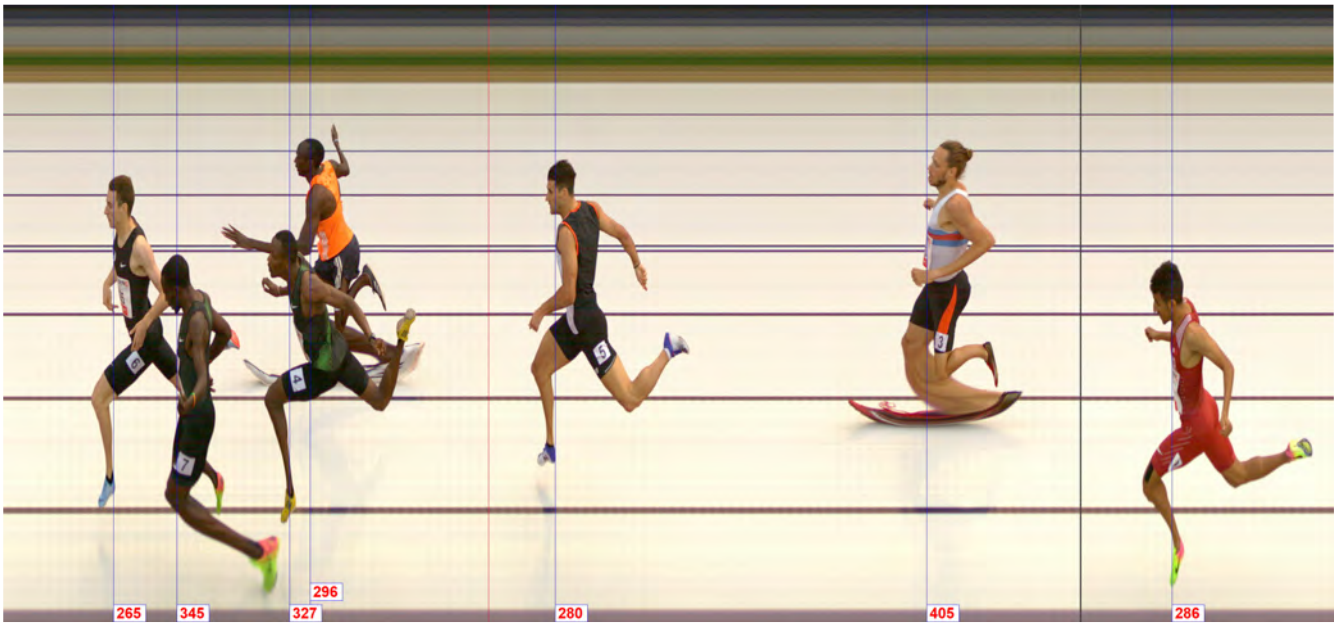


Sports:

- Track and Field
- Cycling
- Horse Racing
- Motorsport
- Rowing
- Canoe
- Dragonboat
- Inline Skating
- Snowboard
- Ski Cross
- Alpine Skiing
- Cross Country Skiing
- Biathlon
- Short Track
- Speed Skating

Special Solutions:

- Swimming
- Air Race
- Drone Racing
- Crashed Ice
- Timber Sports





HORSE RACING

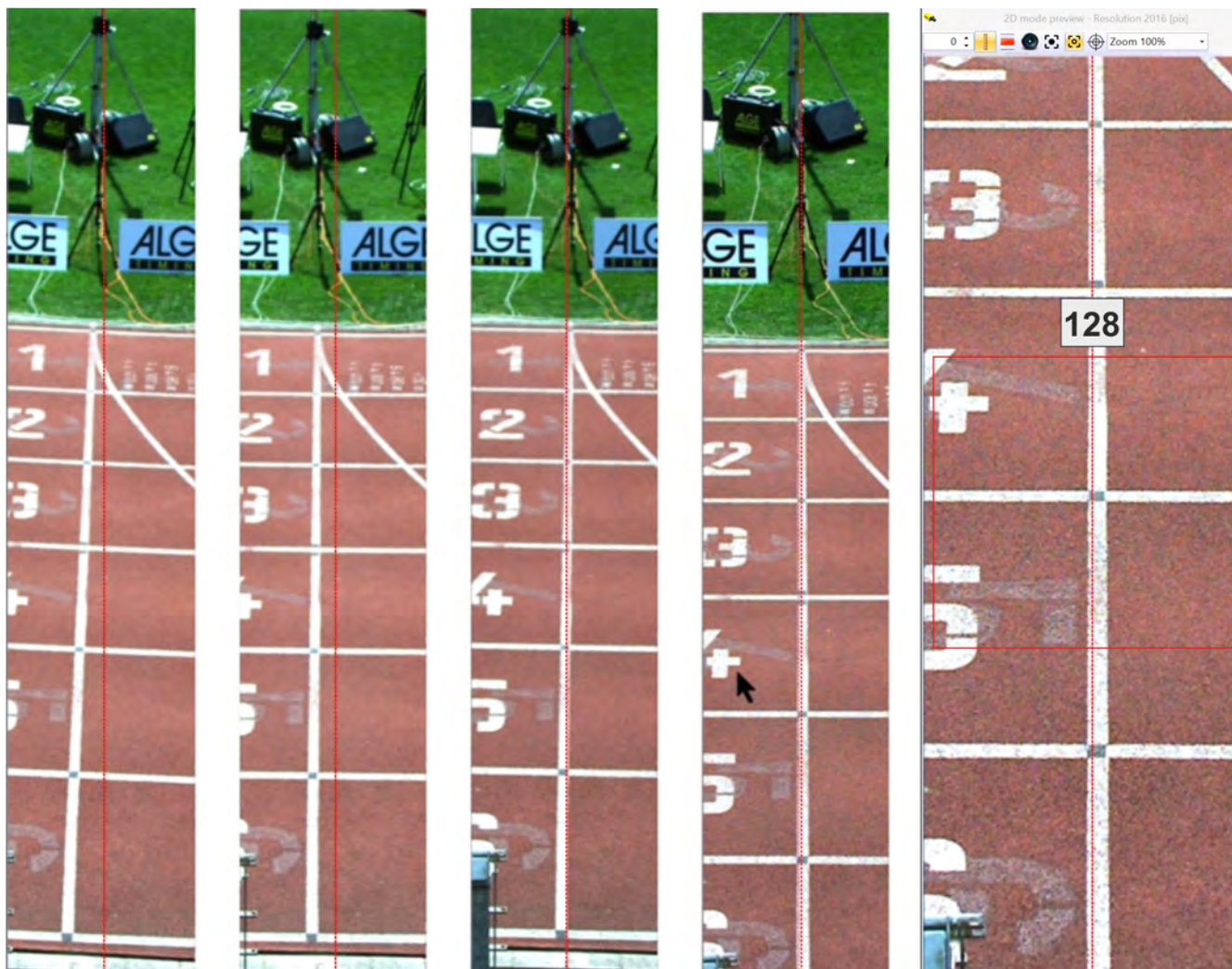
Photo Finish OPTIc3



Easy camera setting in 2-D mode

The OPTIc3 camera is switchable to a 2-D preview video image mode. This video preview displays a live 2-D image of the camera on the PC monitor. A vertical red line overlays the 2-D preview image.

This line represents the recording line in the line scan mode (competition mode). It allows an easy alignment and setup of the photofinish camera to the finish line. With the autofocus function, the focus can also be adjusted in the 2-D image.



HORSE RACING

Photo Finish OPTIc3



The photo finish system OPTIc3 can be extended as desired with practical accessories or equipped for specific requirements of sport events. In addition to the standard accessories, there are also unique special solutions that can be customized.

	Zoom Lens Z75 manual zoom lens C-Mount 3/8", 12.5- 75 mm / F1.2		Weather Protection Cover WPC3-75 for OPTIc3 camera with the lenses Z75, MZ75C, MZ48C and L8C
	Motor Zoom MZ75C control of focus, zoom and brightness from the PC C-Mount 3/8", 12.5 – 75 mm / F1.2		Carrying Case KL-OPTIc3 case with foam insert to transport and store an OPTIc3 system safely
	Motor Zoom MZ48C control of focus, zoom and brightness from the PC C-Mount 1/2", 8- 48 mm / F1,2		Ethernet Cable K-RJ45G03 CAT6 patch cable with 3 m
	Wide-Angle Lens L8C C-Mount 3/8", 8 mm / F1.4		Ethernet Cable K-RJ45G10 CAT6 patch cable with 10 m
	C-Mount Focal Length Converter Lx1.5 converts the focal length of a lens for 1.5 times		Ethernet Cable K-RJ45G20 CAT6 patch cable with 20 m
	C-Mount Focal Length Converter Lx2 Doubles the focal length of a lens		Cable Reel KT-RJ45G90 cable reel with 90 m CAT6 Ethernet cable for the OPTIc3 (with this cable, the POE can also feed the camera)
	Gearhead 410 three-dimensional, mechanical gearhead for a precise adjustment of the camera to the finish line		Power over Ethernet PoE power supply for the OPTIc3 camera via Ethernet cable (POE is included with the OPTIc3 camera- power supply 90- 240 VDC)
	Gearhead 410-E3 three-dimensional, electrical gearhead for a precise three-dimensional adjustment of the camera to the finish line directly from the PC (no further cabling necessary)		Gigabit-SWITCH PoE+ with 8 RJ45 sockets and integrated Power over Ethernet (PoE+)
	Tripod STATIV6 tripod with a maximum height of 3.66 m		Power Bank PS-KP Universal device that feeds almost all ALGE-products, the lithium battery has a capacity of 18 Ah, and a 12 VDC and 2 USB outputs
	Tripod TRIMAN tripod with a maximum height of 2.4 m		Radial Polarizing Filter PF55 (on request) polarization filter to attenuate reflection (e.g. from water)
	Tripod TRI-PRO tripod with a maximum height of 2.67 m		





HORSE RACING

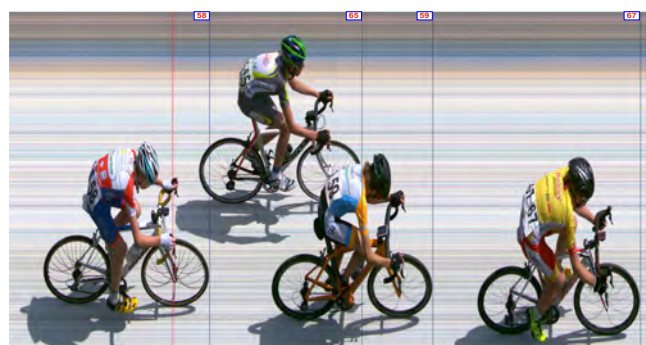
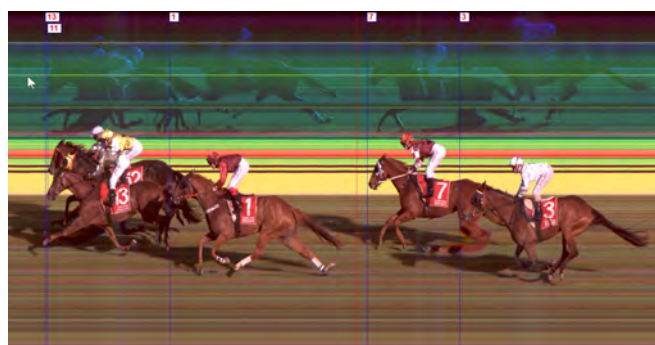
Photo Finish OPTiC3

Technical Data	OPTiC3	OPTiC3-PRO
Pixel (vertical):	1360 pixel	2016 pixel
Recording Speed (fps):	100 - 3,000 fps	100 - 30,000 fps
Voice over IP (VoIP):	optional	yes
Light Amplification eXtremLux:	optional	yes
Line Doubling:	optional	yes
Wireless Timing Network:	optional	yes
High Speed Video (100 pictures per second)	optional	yes
Sensor Type:	CMOS	
Time Base:	temperature compensated quartz oscillator TCXO: +/- 0.006 ppm at 25 °C (0.0002 s/h)	
PC Connection:	Gigabit Ethernet / WLAN	
Lens Mount:	C-Mount / F-Mount with adapter	
Distance Camera to PC:	CAT6 cable: up to 100 m Fibre Optic: up to 2000 m (with converter)	
Connection for Electronic Gear Head:	yes	
Option for ALGE-TIMING Motor Zoom:	yes	
Remote Control for Zoom:	yes (for ALGE-TIMING motor zoom)	
Remote Control for Iris:	yes (for ALGE-TIMING motor zoom)	
Remote Control for Focus:	yes (for ALGE-TIMING motor zoom)	
Autofocus:	yes (for ALGE-TIMING motor zoom)	
Automatic Brightness Adjustment:	yes (for ALGE-TIMING motor zoom)	
White Balance:	automatic and PC software	
Gamma Adjustment:	PC software	
Recording Time:	unlimited, depending on the PC hardware	
Recording Speed Adjustment (fps):	software (adjustable at any time)	
Timing Impulse Inputs:	3 (start, intermediate time, finish)	
Connection for Display Board:	RS232 / RS485 / Ethernet	
USB Interface:	2	
Recording and Evaluation:	possible on 2 different PC	
Transponder Integration:	optional	
Power Supply:	Ethernet with PoE+ power supply PS12A (10.6- 13.4 VDC)	
Tripod Thread:	3/8 inch	
Operating Temperature:	-20 to 50 °C	
Measurements (excluding lens):	180 x 120 x 80 mm (L x W x H)	
Weight (excluding lens):	1.5 kg	



Connections

- | | |
|---|---------------------------------|
| 2 x start input (banana socket) | 1 x motor zoom |
| 1 x finish input (banana socket) | 1 x gear head |
| 2 x DIN socket (3 input channels) | 2 x USB (e. g. for WLAN) |
| 1 x display board RS232 (banana socket) | 1 x RJ45 (Gigabit Ethernet) |
| 1 x display board RS485 (banana socket) | 1 x power supply (9 – 13.4 VDC) |





Photocell PR1a-d

photocell with transmitter and receiver for long distances (up to 100 m)

Photocell Housing PB4

to protect the photocell from dirt, dust and weather influences

Heated Photocell Housing PB4H

An integrated heater protects the photocell from misting and icing. The integrated power supply feeds the photocell.

GATESWITCH

The GATESWITCH is a switch that you mount on the start gate so that it triggers the switch when the gate opens. The GATESWITCH is connected to the Teledata TED2-TX which sends an start information by radio to the photo finish device OPTIc3.

Radio Teledata TED2

for wireless transmission of the start signal or data to the timing device.
This allows the start from any point of the horse track (distances up to 4.5 km with a clear view).

Mirror for Photo Finish OMH

Through the mirror, you can see the opposite side on the photo finish, which gives the decisive result in the evaluation of hidden horses.

OMH: mirror without heating

OMH-H: mirror with heater for racing at cold temperatures



Photocell PR1a-d



Photocell Housing PB4 or PB4H



GATESWITCH



Teledata TED2



Mirror OMH or OMH-H



HORSE RACING

Display Boards

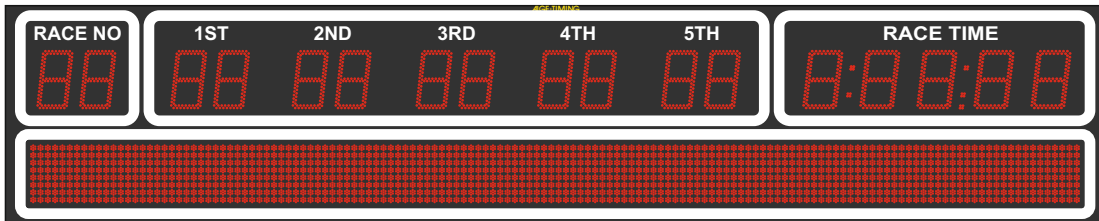
Just as unique as any horse racing course, are the display boards that are used: The models shown below are globally installed solutions that convince with simplicity and clarity. However, individual special solutions with full-matrix video screens are also very popular for horse racing.



Display Board D-HS300-17N-P7-8x144:

with interface for ALGE-TIMING timing devices
Control via PC software or ALGE-TIMING console with PC keyboard including control console for "steward room".
Interfaces: RS485, RS232 and Ethernet
Digit height: 300 mm

1st Line: with 17 numeric digits (digit height = 300 mm) to display the race number (2 digits), horse number of the first 5 places (2 digits) and time (5 digits for minutes, seconds and 1/100)
2nd Line: with a full matrix of 8 x 144 pixels (at least 25 characters), each pixel consists of 7 extra bright red LEDs, animated texts can be displayed (e.g., scrolling)

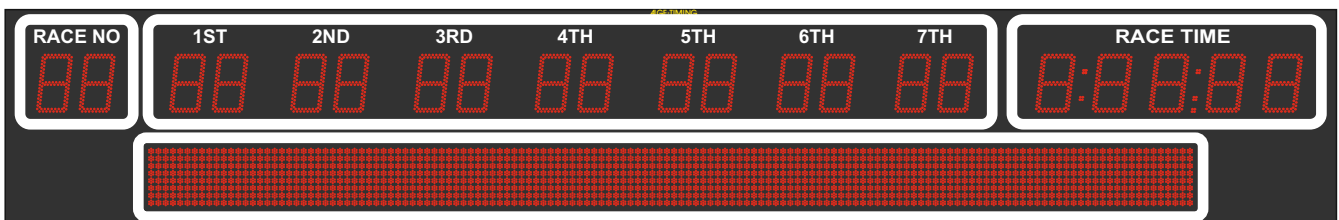


control console for display board

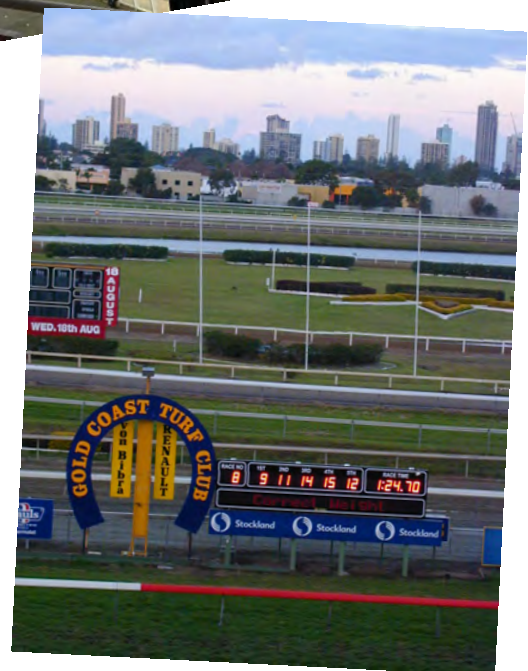
Display Board D-HS300-21N-P7-8x144:

with interface for ALGE-TIMING timing devices
Control via PC software or ALGE-TIMING console with PC keyboard including control console for "steward room".
Interfaces: RS485, RS232 and Ethernet
Digit height: 300 mm

1st Line: with 21 numeric digits (digit height = 300 mm) to display the race number (2 digits), horse number of the first 7 places (2 digits) and time (5 digits for minutes, seconds and 1/100)
2nd Line: with a full matrix of 8 x 144 pixels (at least 25 characters), each pixel consists of 7 extra bright red LEDs, animated texts can be displayed (e.g. scrolling)



HORSE RACING



ALGE-TIMING
Rotkreuzstrasse 39
6890 Lustenau, Austria
<https://alge-timing.com>

