

ALGE *PHOTOFINISH* ALGE

TIMING OPTIc2n TIMING

The **ALGE OPTIc2** 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 OPTIc2 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 displayed on the monitor or can be printed at any time.

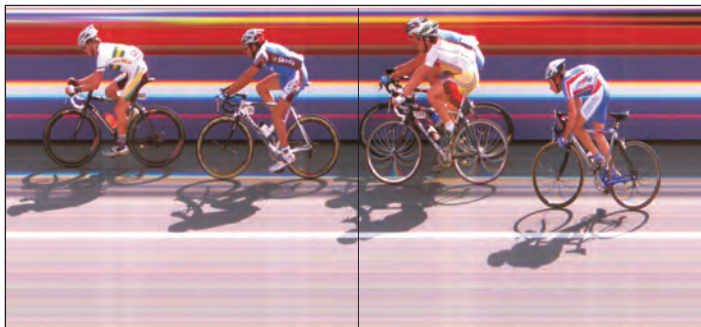
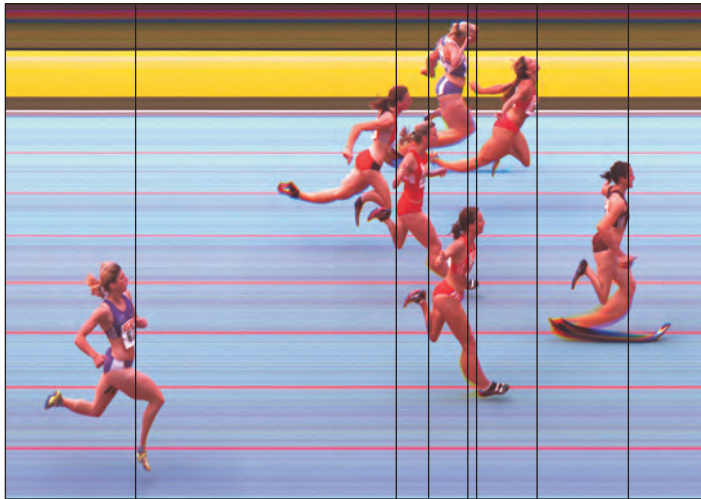
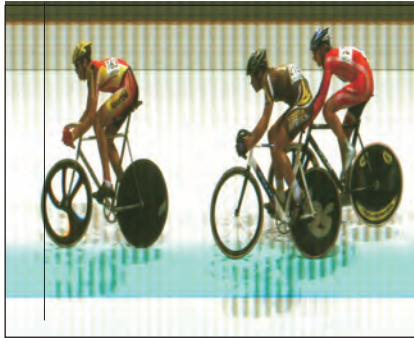


The main features of the ALGE OPTIc2n are:

- 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, Windows Vista or Windows 7.
- 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 OPTIc2n for IEEE1394 connection (up to 10 m cable) or optical cable connection (long distance).
- The OPTIc2n allows connection with CAT5e cable (RJ45 plug). With a CAT7 cable you can bridge about 80 m. It needs at the PC side an adapter RJ45-1394 or the **ALGE**-Distribution Box OCD2.
- 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.

For which sports is the OPTlc2 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 OPTIc2 includes three ways of transferring the time from the picture into 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 automatically moves 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:

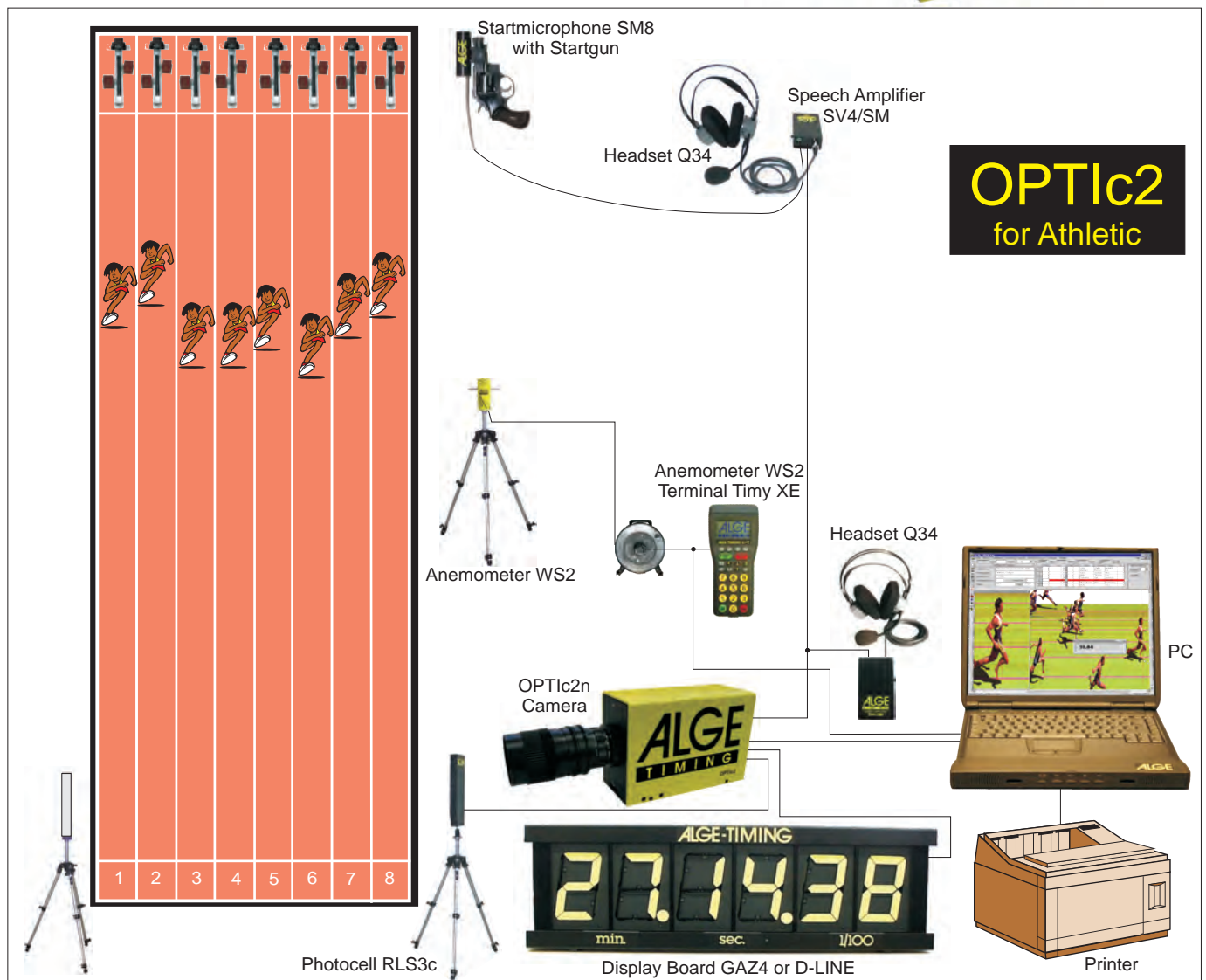
Move the time line to the point to where you want to time an individual competitor. Press the right mouse button. A small window opens, where you have to input the ID number of the competitor. That time moves automatically into the result list.

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 in the result list, it is possible to select the reason for this in a pull down menu
- if you use the keyboard to input the time into the result list instead of copying it from the picture, the time will be marked



OPTIc2
for Athletic

Technical Data

Camera OPTIc2n

All technical data is the same as for the camera OPTIc2o, but the OPTIc2n has different

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
- 1 x IEEE 1394a 6-pol
- 1 x GOF (LC duplex glass optical fiber connector)
- 1 x CAT5e cable with RJ45 plug
- 1 x power supply

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):

Operating System: Windows XP, Windows Vista or Windows 7
Processor: Intel Pentium Dual Core (similar or better)
Hard Disk: min. 60 GB hard disk (the faster the better)
Memory: min. 1 GB RAM
Graphic: min. 32 MB Graphic RAM
Monitor Resolution: min. 1024 x 800, best with 1920 x 1200
Interface: IEEE 1394A or 1394B OHCI compatible Interface



Camera OPTIc2n

Accessory:

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

- Different Lenses for Camera:** Wide range of zoom lenses (manual and electronic controlled) and fix lenses.
- IEEE1394 Camera Cables:** Wide range of IEEE 1394 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.
- Distribution Box ODB2:** Connection Box for OPTIc2 if the camera is not reachable of far from the PC-operator.
- Tripod Triman:** To mount the camera (maximum height 2,4 m, in addition a Gearhead is necessary).
- Manual Gearhead 410:** Three dimensional gearhead to adjust the camera exactly to the finish line.
- Electronic Gearhead 410E:** Electronically controlled three dimensional gearhead to adjust the camera exactly 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.

