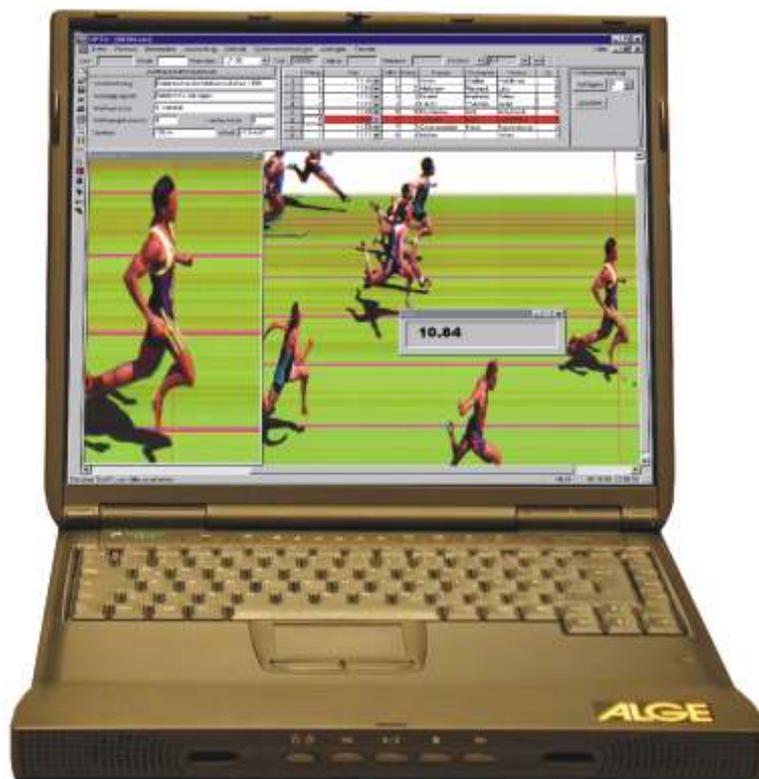


Photofinish OPTIc2

The ALGE **OPTIc2** is the next generation of the successful photofinish system OPTIc. The camera uses the latest CCD-line scan sensor technology. This allows to use the camera even at bad light conditions. High recoding 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 scan 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.



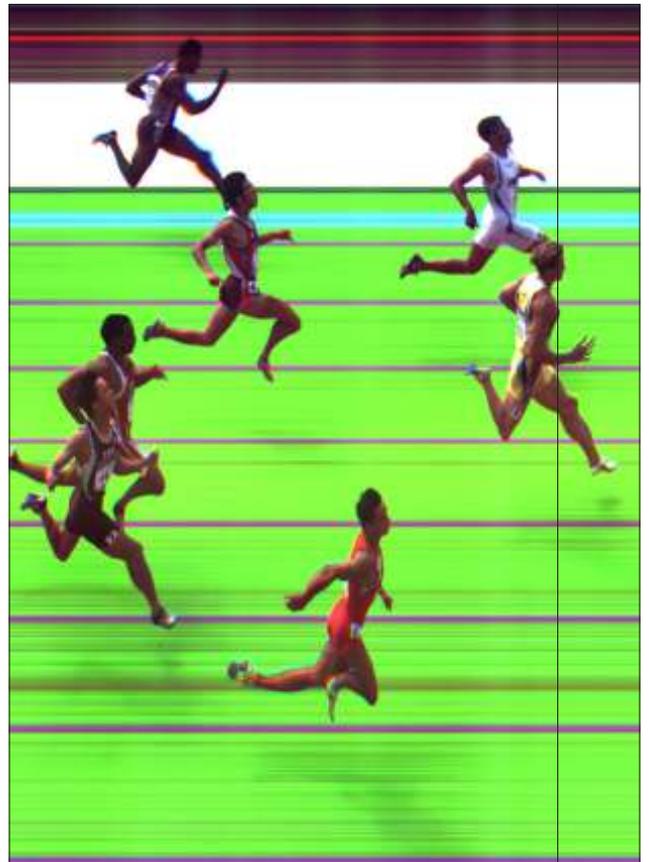
The Main Features of the ALGE OPTIc2 are:

- Best picture quality in all light conditions by modern line scan sensor.
- Highest timing precision by Temperature Compensated Quartz Oscillator TCXO.
- Easy handling with Windows XP
- Unlimited recording time with suitable PC hardware.
- High resolution, 3000 lines per second and 1356 pixel.
- Recoding 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 OPTIc2 for IEEE1394 connection (up to 10 m cable) or OPTIc2o with additional optical cable connection (long distance).
- Possibility to use a desktop-PC or notebook with IEEE 1394 (firewire) interface.

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TIMING

For which sports is the OPTic useful?

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



Integrated Evaluation

The OPTIc2 includes three ways of transferring 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:

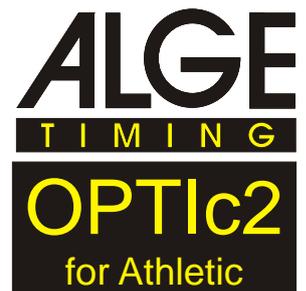
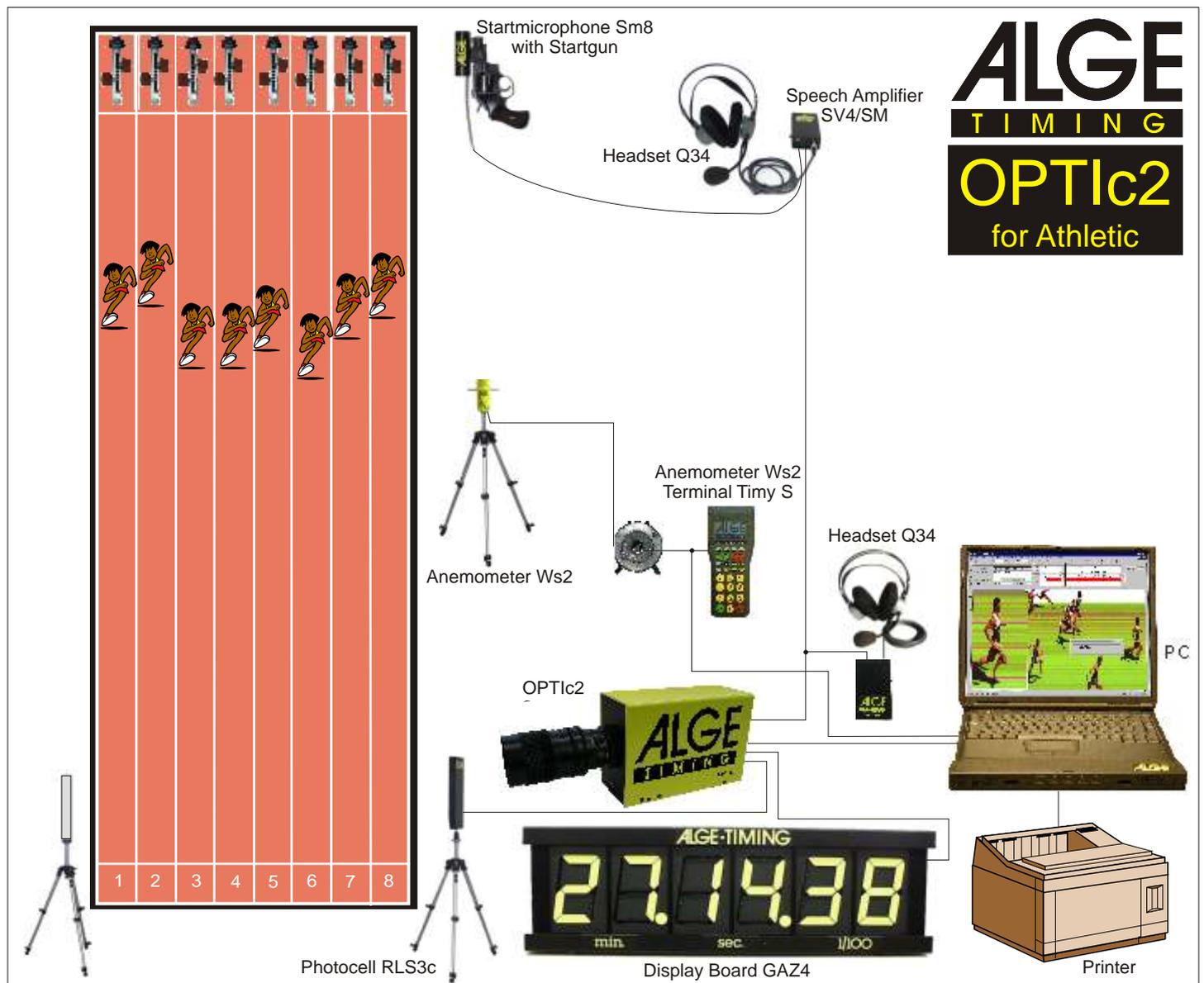
Move the time line to where you want to time an individual competitor. Press the right mouse button. It opens a small window where you have to input the ID number of the competitor. That time moves automatically into the result list.

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 OPTIc2

- 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 zoom lens 2/3", 12,5 – 75 mm, F = 1,2
Option: motor zoom lenses, or Nikon lenses with 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)
Aging: +/- 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
1 x IEEE 1394a 6-pol
1 x IEEE 1394b 9-pol bilingual
1 x power supply
- Power Supply:** +9 - 36 VDC
Temperature Range: 0 to 50°C



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 zoom lens 2/3", 12,5 – 75 mm, F = 1,2
Option: motor zoom lenses, or Nikon lenses with 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)
Aging: +/- 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
1 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



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