

# ***Invest in a* winning concept**



Photofinish  
BY QUALISYS

# THE TIMEKEEPING SYSTEM OF THE FUTURE

A black and white finish line camera from Qualisys was unveiled at an athletics competition in Lerum in 2008. Since then, quite a lot has happened with regard to function, user-friendliness and sharp colour images.

The system is certified by the Swedish Athletic Association, and therefore approved by IAAF for international competitions and has been used at youth competitions, as well as at the Swedish Championship and the annual athletics championship between Sweden and Finland.

The system is used by the Gothenburg, Värmland, Halland and Jämtland-Härjedalens Athletics Associations, Oslo Friidrettskrets [Athletics district] and athletics clubs in Ljungby, Märsta and Lidingö.

## EASY TO GET STARTED WITH AND EASY TO USE!

Timekeeping with precision does not need to be a science. With a simple and logically constructed software support you will quickly learn to handle the timekeeping steps.

Quick "set-up" with the market's smartest finish line adjustment so you are ready for the first race in just a few minutes. You can start judging ongoing races immediately after the first photo finish has been captured.

An extra judging computer for judging finish line photos can be connected, thus enabling you to work faster between starts.

Qualisys Photofinish, a high performance photo finish camera system for both athletic clubs as well as professional timekeepers.

A system developed and manufactured in Sweden of the highest quality and one of the simplest to handle.

Besides athletics, the system can naturally be used for all other games and sports requiring official timekeeping with photographic precision, such as skiing, cycling, equestrian sports, racing, ice skating, etc.

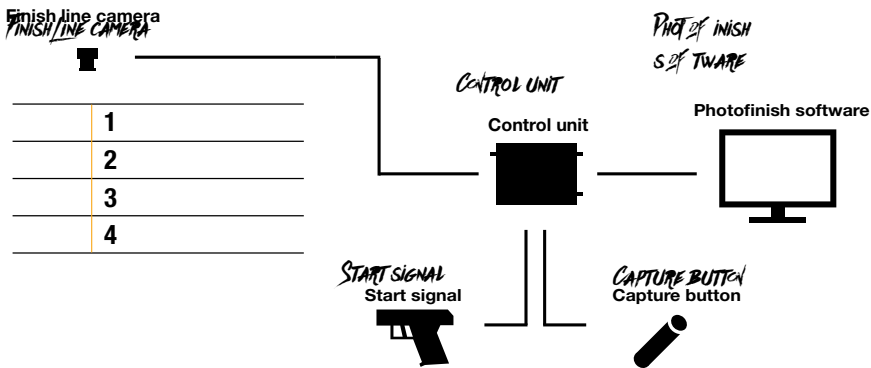
Times can be exported automatically to an external administration software by file or a network. It is just as easy to export of finish line photos to the Internet or for printing.

The basic package consists of a finish line camera with a control unit and power supply unit, computer software and a sturdy storage bag. Naturally we will also help you with a tripod, start impulse equipment and cables.

The system can be supplemented with a wind gauge, additional finish line cameras and/or a front camera for synchronised reading of start numbers.



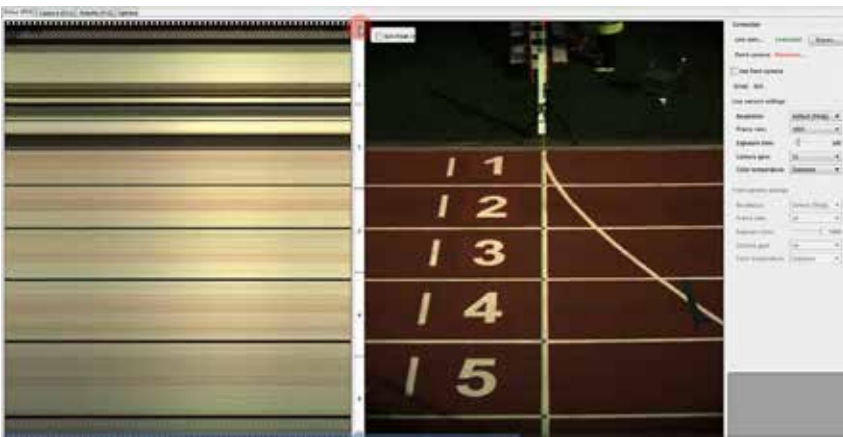
# THIS IS HOW IT WORKS



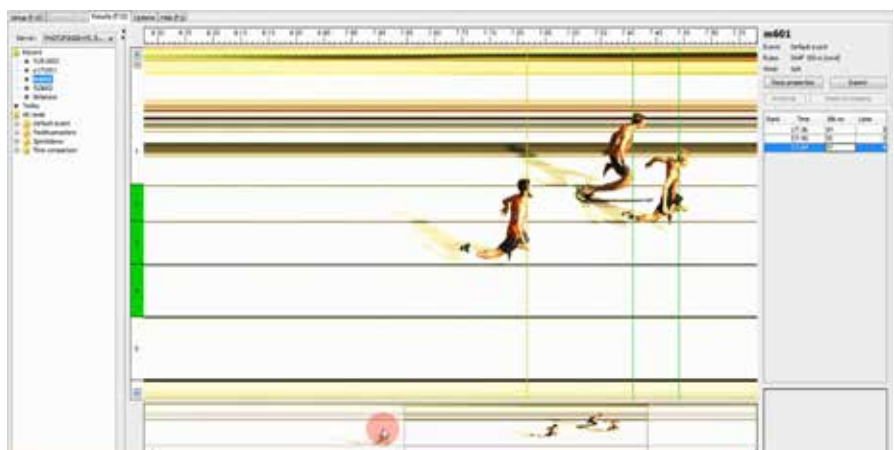
The illustration shows an example of how to set up a finish line camera. The set-up can be varied with additional options, such as front camera, additional finish line cameras, wind gauge, additional computers.

## SETTINGS

- Place the finish line camera on a camera bracket/tripod in line with the finish line.
- Connect the cable between the control unit and the finish line camera.
- Connect the control unit to your laptop, to the start impulse equipment and the power supply unit.
- Turn on the equipment, start the software and quickly and easily adjust the camera toward the finish line.
- YOU are now ready to run the first race in just a few minutes



Screenshot when setting up finish line



Screenshot when judging finish line photo

## A COMPLETE SOLUTION

### Standard package:

- Weather protected Photofinish colour camera with zoom lens, full HD resolution (2,048 pixels) and up to 4,000 fps.
- Control unit, with cables, power source & start button
- Software for computers
- Bag

### Options:

- Laptop
- Front colour camera with full HD resolution
- Stable tripod up to 3.5 metres high
- Three-dimensional and variably adjustable tripod head
- Battery backup for all cameras through UPS
- Start equipment (also wireless)
- Wind gauge (also wireless)
- Rolling time equipment (also wireless)

### Software:

- Automatic software updates via the Internet
- Controls up to three cameras
- Adjustable finish line placement (pixel for pixel)
- Saves all start impulses
- Start impulse selection option
- Judge race participants in real time option



- Adjustment of time rounding while capturing new race data. Select precision between 1 second and 1/10,000 second
- Multi computer support for easier race judging
- Image enhancements, gamma & contrast
- Functions for track settings, competition direction
- Race/competition direction "in accordance with" IAAF's rules
- Wind gauge control in line with IAAF rules
- Image cropping
- Image processing, save as png

## TECHNICAL FACTS

Camera	Oqus
Sensor resolution	2,048 pixels (can be set to 2,048, 1,024 and 512)
Maximum image speed	4,000 fps (can be set to 4,000, 2,000, 1,500, 500 and 100 fps)
Sensor type	Full scene global shutter CMOS sensor
Lens	Zoom lens, 12.5 mm - 75 mm (49-9° field of view), f/1.8
Lens attachment	C-mount
Timekeeping	1 ppm, Temperature Compensated Crystal Oscillator
Camera communication	100 Mbit Ethernet (802.3)
Weather protection	IP67 with O-rings mounted
Temperature range	0-35 °C
Voltage range	100-240 VDC, 47-63 Hz
Camera dimensions	180 × 110 × 170 mm
Camera weight	2.5 kg

The Photofinish timing system is produced, marketed and sold by Qualisys via Swedish Timing in Gothenburg. The system has been developed in Sweden and suits both timekeeping professionals, as well as athletic club officials. If your club or your district is interested, then please contact Swedish Timing.