TimeTronics

Product brochure
Argus photo finish system

Argus

2020v2

1. Newest photo finish camera generation

Introducing to you our 2020 new generation photo finish camera "Argus"!

We can offer you this **state-of-the-art camera** as a complete professional photo finish configuration with mobile cable reels or a fixed underground cabling solution. Our "Argus Selection Chart" (added to every TimeTronics photo finish quotation) will give you an overview of the **predefined setup.** We deliver your system with a standard C-mount 8-48mm f1.2 lens and standard camera head and tripod mounting, or further defined to your needs.
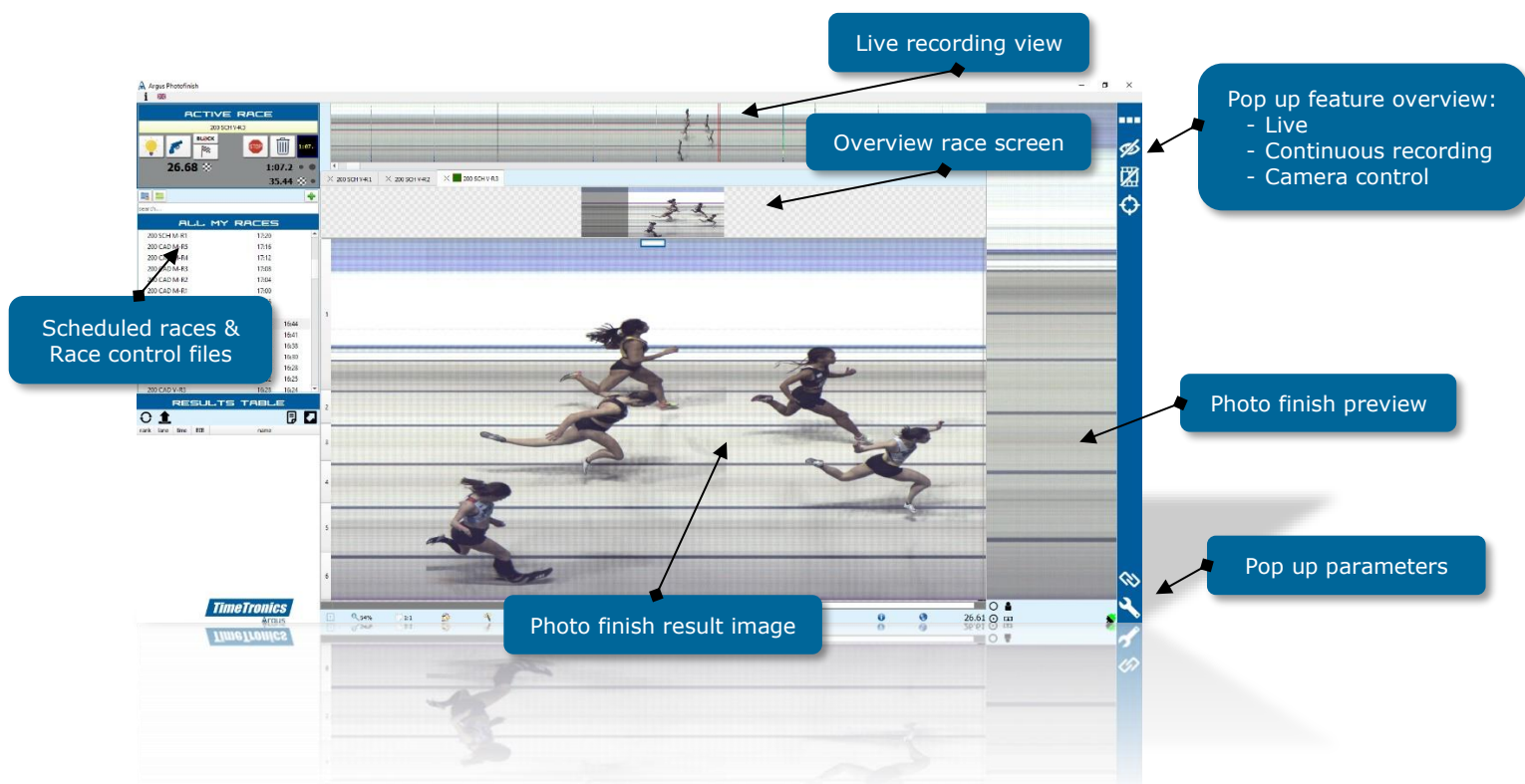
2. Argus photo finish software advantages

New user interface	High light sensitivity
Completely new user interface which allows you to **navigate easily** through the different races and desired parameter settings.	The Argus photo finish camera produces **photo-quality pictures** at a high recording speed. Thanks to its sensor and the gamma control, you will enjoy a higher **light sensitivity** than ever before!

Live recording view

Overview race screen

Pop up feature overview:
- Live
- Continuous recording
- Camera control

Scheduled races & Race control files

Photo finish preview

Photo finish result image

Pop up parameters

Continuous recording *(Pro)*	Transponder integration
With our Pro version, literally everything will be recorded with your Argus photo finish camera in the sophisticated **Continuous Recording** feature.	**Transponder integration** is possible for the Argus photo finish system.

Motion detection

Virtual photocells which can be set up to **two detection zones** at the finish line in an advanced mode (height, width and contrast).

High recording speed

A recording speed of 2.000 standard and **up to 5.000 lines/second**. High quality pictures (fast recording) in darker light conditions.

Image eye

Every detail is important for a photo finish result picture. With our image eye you can **easily zoom** in on the image in **2 zones** with the magnifier.

Ethernet connection

The **Ethernet connection** between the Argus photo finish camera and operating computer allows you to place the computer at a larger distance of the camera.

Image eye zoom view

Result table

Video alignment

Video alignment system

A **live video view** of the finish line will allow you to perfectly align the photo finish camera in front of the finish line fast and easy. **Three magnification zones** are shown. Soft movement of the finish line is possible in restricted area.

All starts recorded

If the starter of the race gives you (unintentional) multiple start pulses, you will be able to select the **correct start pulse**.

Multi-language
We have the possibility to deliver you our Argus photo finish software in a **language** and/or **character set** of your choice. If we do not already have your language implemented, we can deliver you translation files. *Contact us to check your specific language requirements.*

Multi-sport: sport specific parameter settings
All sports require different parameters. We have implemented already multiple sports (Athletics, Cycling, Speed Skating, …) in our Argus photo finish software. *Contact us to check your specific sport requirements.*

3. Comparison of the various Argus versions

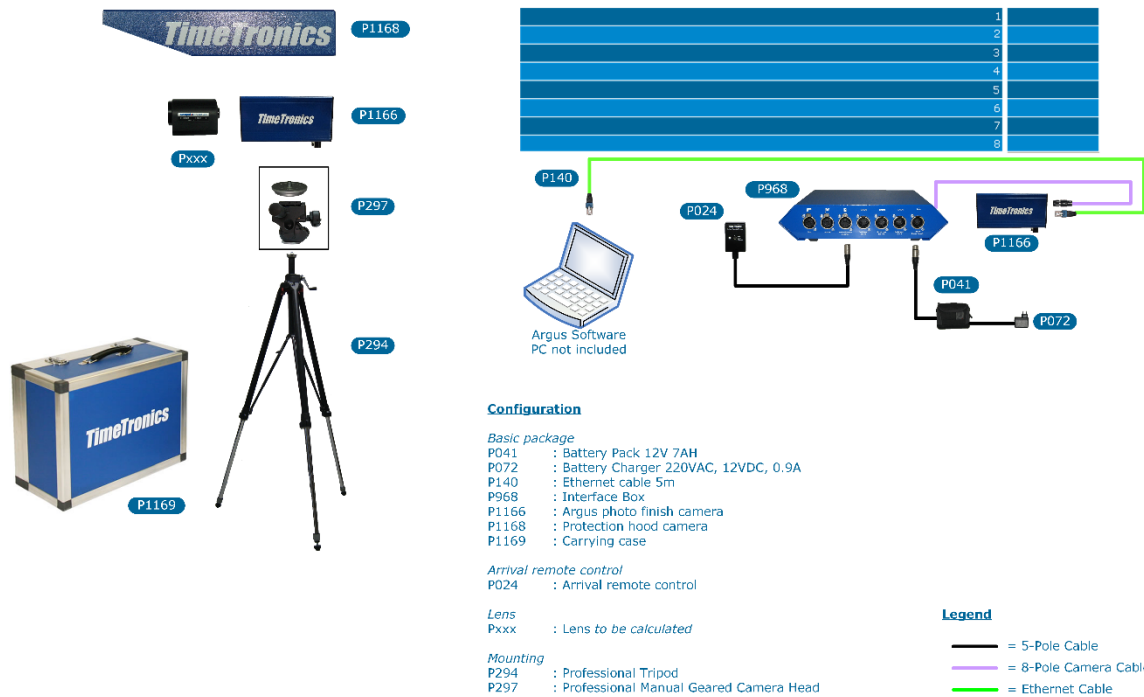| Specifications	Argus Club version	Argus Pro version
Sensor	2D	2D
Camera connection	Ethernet (Distance virtually unlimited)	Ethernet (Distance virtually unlimited)
Max. vertical pixels	1.280 pixels	1.280 pixels
Max. recording speed	2.000 lines/second	3.000 lines/second, upgradable to 5.000 lines/second
Number of colors/pixel	16 million	16 million
Synchronous time	1 microseconds time base	1 microseconds time base
Aligning camera	Instant video image of finish line (Preview)	Instant video image of finish line (Preview)
Optics (lens)	C-mount	C-mount
Lens control	Manual, <u>Option</u>: Motorized	Motorized
Camera power	POE (Power-Over-Ethernet) + battery powered	POE (Power-Over-Ethernet) + battery powered
All start signals registered	Yes	Yes
Presentation mode	*Optional*	Yes
Instant readout of results	Yes	Yes
Continuous recording	No	Yes
Dual camera integration (*①)	No	Yes
Transponder integration (*②)	*Optional*	Yes
Database integration (*③)	Yes	Yes

① Dual camera: Second camera package not included in standard Argus photo finish configuration
② Transponder: Transponder package not included in standard Argus photo finish configuration
③ Database: Database software not included in standard Argus photo finish configuration

4. Standard photo finish configuration setups

Argus photo finish – Basic Package with lens and mounting
(2020v3)

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Configuration

Basic package
P041   : Battery Pack 12V 7AH
P072   : Battery Charger 220VAC, 12VDC, 0.9A
P140   : Ethernet cable 5m
P968   : Interface Box
P1166   : Argus photo finish camera
P1168   : Protection hood camera
P1169   : Carrying case

Arrival remote control
P024   : Arrival remote control

Lens
Pxxx   : Lens *to be calculated*

Mounting
P294   : Professional Tripod
P297   : Professional Manual Geared Camera Head

Legend

—— = 5-Pole Cable
—— = 8-Pole Camera Cable
—— = Ethernet Cable

TTC-951 Argus Club Athletics Mobile Local Track
(2020v1)

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—— = 5-Pole Cable
—— = 8-Pole Camera Cable
—— = 12-Pole Cable
—— = Ethernet Cable

TTC-953 Argus Pro Athletics Mobile Local Track
(2020v1)

TTC-955 Argus Pro Athletics Fixed Stadium
(2020v1)