

CAMRECORD-SPRINTER SERIES

Sprinter-FHD

High-Speed Video Camera



- ✓ RESEARCH
- ✓ TROUBLESHOOTING
- ✓ MOTION CAPTURE AND ANALYSIS

- 1 905 fps with 1 920x1 080 pixels
- Standalone operation
- SSD backup storage
- fast 16 GB camera memory
- TimeViewer software with object tracking included

Sprinter-FHD High-Speed Video Camera

Optronis

Make time visible

DESCRIPTION

Sprinter-FHD of the CamRecord-Sprinter series is a high resolution, high-speed camera with integrated frame memory. Various trigger and synchronization features makes the camera an ideal tool for research and industrial applications. The camera is controlled by TimeViewer software via GigE interface. Software provides object tracking and automated measurements of distance and speed.

SPECIFICATIONS

Sensor resolution	1920 × 1080
Frame rate @ max. sensor res.	20 .. 1908 fps
Memory	16 GB internal
Image sensor	CMOS, Global Shutter
Exposure time	4 μs - 1/framerate
Active area	19.2 mm x 10.8 mm
Sensor diagonal dimension	22.0 mm
Pixel size	10.0 μm
ISO Ssat	Mono 40,000 Color 16,000
Dynamic	48 dB
Sensitivity	20 V/lux × s @ 550 nm
Trigger modes	internal free-run, switch, rising or falling edge, pre- and post-trigger
Power	12 VDC
Weight	1400 g without mount
Dimensions	150 mm x 92 mm x 92 mm
Housing	lightweight anodised aluminium
SSD harddrive bay	data storage and backup
PC software	TimeViewer for Windows (support for version 7, 8 and 10) for capture, video playback, export, export, image analysis with object tracking, distance and speed analysis
Scope of delivery	Camera with 256 GB SSD, TimeViewer, Power supply, GigE-cable and manual

PERFORMANCE (EXAMPLES, TYP)

Resolution (H x V)	Framerate	Recording time
1920 × 1080	1905 fps	5.4 s
1280 × 960	2141 fps	6.5 s
1280 × 720	2843 fps	6.5 s
640 × 480	4230 fps	13 s
384 × 288	6937 fps	22 s
256 × 128	14866 fps	33 s
256 × 8	104065 fps	78 s

INTERFACES

Trigger input (TI)	TTL, 3.3 - 5 V, optically isolated, recording of sequence
Synchronisation input (SI)	TTL, 3.3 - 5 V, optically isolated, frame synchronization
Synchronisation output (TO)	TTL, 2.0 - 4.0 V, optically isolated, frame synchronous output signal
Programmable output (PO)	reserved
GigE	control and download

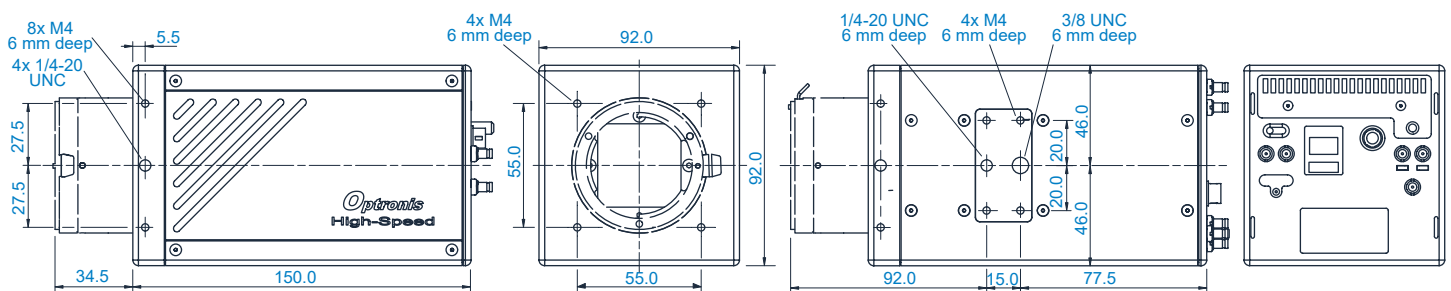
MODELS

Sprinter-FHD-M	monochrome Camera
Sprinter-FHD-C	color Camera

OPTIONS

CR-FM	F-Mount lens adapter
CR-FMG	F-Mount lens adapter with aperture control
CR-CM	C-Mount lens adapter

TECHNICAL DRAWING



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