

CAMRECORD-SPRINTER SERIES

# Sprinter-FHD

## High-Speed Video Camera



- RESEARCH
  - TROUBLESHOOTING
  - SCIENTIFIC
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- 1 908fps with 1 920x1 080pixels
  - Standalone operation
  - SSD backup storage up to 1TB
  - fast 16 GB camera memory
  - TimeViewer user software included

## 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.

## 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/frame rate
Active area	19.2 mm x 10.8 mm
Sensor diagonal dimension	22.0 mm
Pixel size	10.0 µm
A/D conversion	8 Bit
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
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	1908 fps	4.3 s
1280 × 960	2140 fps	6.5 s
1280 × 720	2850 fps	6.5 s
640 × 480	4260 fps	13 s
384 × 288	7000 fps	22 s
256 × 128	15500 fps	33 s
256 × 8	170000 fps	40 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-S-FM	F-Mount lens adapter
CR-S-FMG	F-Mount lens adapter with aperture control
CR-S-CM	C-Mount lens adapter

## TECHNICAL DRAWING

