

CAMRECORD-SPRINTER SERIES

Sprinter-HD

High-Speed Video Camera



TROUBLESHOOTING

RESEARCH

SCIENTIFIC

- 3.500 fps with 1280x860 pixels
- Standalone operation
- SSD backup storage up to 1 TB
- fast 16 GB camera memory
- TimeViewer user software included
- wireless control via tablet PC

DESCRIPTION

Sprinter-HD of the CamRecord-Sprinter series is a 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 or WiFi connection.

PERFORMANCE (EXAMPLES)

| Resolution (H x V) | Framerate | Recording time |
|---------------------|-------------|----------------|
| 1280 x 860 | 3.504 fps | 4.4 s |
| 1280 x 720 | 4.168 fps | 4.4 s |
| 1280 x 4 | 128.514 fps | 25.78 s |
| 640 x 480 | 6.168 fps | 9.0 s |
| 384 x 240 | 11.862 fps | 15.7 s |
| 256 x 192 | 14.548 fps | 24.0 s |
| 256 x 4 | 128.514 fps | 122.8 s |

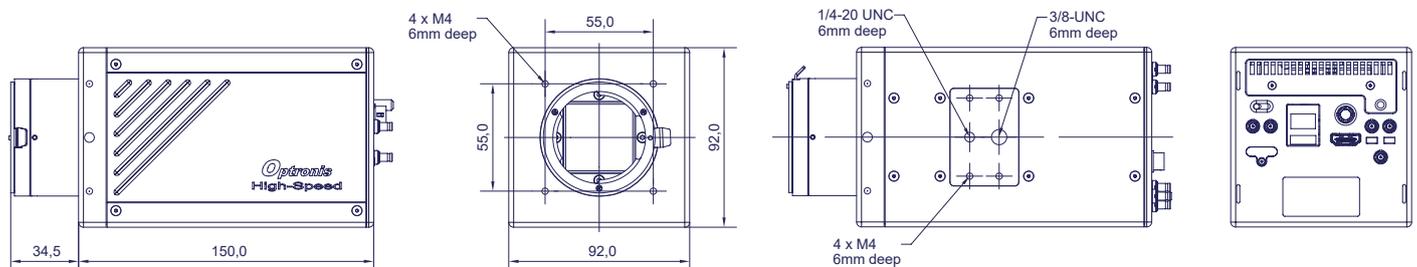
INTERFACES

| | |
|-----------------------------|---|
| 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) | TBD |
| HDMI | video output |
| USB | WiFi dongle |
| GigE | control and download |

MODELS

| | |
|---------------|-------------------|
| Sprinter-HD-M | monochrome Camera |
| Sprinter-HD-C | color Camera |

TECHNICAL DRAWING



CONTACT INFORMATION

Optronis GmbH
Ludwigstraße 2
77694 Kehl
Germany

Phone: +49 7851 91 26 - 0
Fax: +49 7851 91 26 - 10
info@optronis.com
www.optronis.com

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SPECIFICATIONS

| | |
|-------------------------------|---|
| Sensor resolution | 1280 x 860 |
| Frame rate @ max. sensor res. | 3.504 fps |
| Memory | 16 GB internal |
| Image sensor | CMOS, Global Shutter |
| Exposure time | 2 µs - 1/framerate |
| Active area | 17.5 mm x 11.8 mm |
| Sensor diagonal dimension | 21.1 mm |
| Pixel size | 13.7 µm |
| A/D conversion | 8 Bit |
| Dynamic | 48 dB |
| Sensitivity | 25 V/lux x s @ 525 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, image analysis with object tracking |
| Scope of delivery | Camera with 256 GB SSD, TimeViewer, Power supply, Docking station, WiFi dongel, GigE-cable and manual |

ACCESSORIES

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