

Optronis

Make time visible

CamRecord-CR Series
CR600x2



HIGH-SPEED VIDEO CAMERA

**Compact and light sensitive
High-Speed camera**

- > **up to 100.000 fps**
- > **Very compact housing**
- > **Very high light sensitivity**
- > **Resolution up to 1280 x 1024 pixel**
- > **Gigabit Ethernet Interface**
- > **Monochrome or color sensor**
- > **8 or 16 GigaByte internal ring memory**
- > **User friendly TimeViewer analysis software**

www.optronis.com

HIGH-SPEED VIDEO CAMERA

Performance (Examples)

| | Resolution (hor. x ver.) | Framerate (maximum) | Recording Time (16GB, max. Framerate, 8bit) |
|---------|-----------------------------|------------------------|--|
| S-XGA | 1280 x 1024 | 502 fps | 25,7 sec. |
| HD720p | 1280 x 720 | 712 fps | 25,8 sec. |
| S-VGA | 800 x 600 | 1.275 fps | 27,5 sec. |
| PAL-D | 768 x 576 | 1.397 fps | 27,7 sec. |
| VGA | 640 x 480 | 1.865 fps | 28,5 sec. |
| QVGA | 320 x 240 | 6.094 fps | 34,9 sec. |
| QQVGA | 160 x 120 | 15.808 fps | 47,0 sec. |
| fastest | 8 x 8 | 91.445 fps | 419,2 sec. |

Model

CR600x2 High-Speed Video Camera

Options

| | |
|---------------|--|
| /M or /C | Monochrome or color sensor |
| /8GB or /16GB | Memory size in Giga Byte |
| /FM , /CM , | Nikon F-Mount , C-Mount |
| /FMG | Nikon FG-Mount (Aperture ring is controlled manually at mount) |
| /EM | Canon EF/EFS-Mount (Aperture and focus are controlled by software) |
| /BI | Internal Battery (Accu-Pack) |

Optional Accessories

- LabView driver (Part number: CR-LabView)
- Software development kit (Part number: CR-SDK)
- Lenses, lights, trigger switches and more accessories on request.

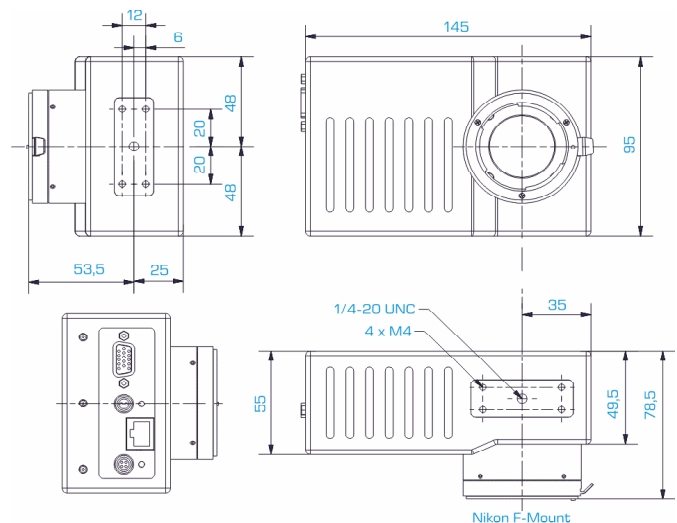
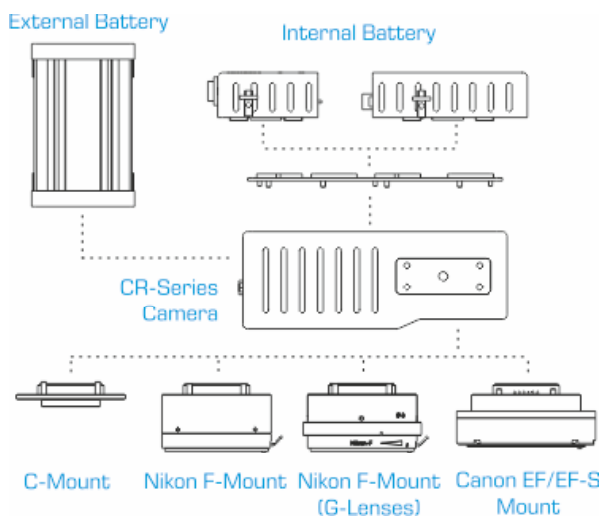
Connector Pin Assignment

4-pin LEMO FGG0B304CLAD52Z

| | | | |
|-------|---------|-------|----------|
| Pin 1 | Sync IN | Pin 3 | GND |
| Pin 2 | Trig IN | Pin 4 | Sync OUT |

Specifications

| | |
|------------------------------|--|
| Resolution | 1280 x 1024 pixel |
| Frame Rate @ max. Resolution | 500 fps |
| Image Sensor | Progressive Scan CMOS |
| Exposure Time | 1 μ s - 1/Framerate |
| Active Area | 17,92 mm x 14,34 mm |
| Sensor Diagonal Dimension | 22,95 mm |
| Pixel Size | 14 μ m |
| A/D Conversion | 8 bit or 10 bit |
| Dynamic | 60 dB (90 dB optical) |
| Sensitivity | 25 V/lux*s (monochrome) |
| Shutter | global electronic, >1 μ s exposure time |
| Trigger Signal | TTL, switch, open collector, rising or falling edge, on image content variation (ROI) |
| Synchronization | internal, external |
| Interface | Gigabit Ethernet |
| Video Output | VGA |
| Power | 12 VDC / 12 W |
| Lens Mount | Nikon F-Mount (optional: C-, FG- or EF/EFS-Mount) |
| Weight | 1050 g |
| Operating Temperature | 0 .. 40°C |
| Humidity | < 80 % relative, non-condensed |
| Dimensions | 145 mm x 95 mm x 78,5 mm |
| Conformity | CE, RoHS |
| Scope of delivery | Camera CR600x2, 5m Gig-E cabel, power supply, Quick start guide, manual on CD, transport case and TimeViewer Software for Windows. |



The information given herein is believed to be reliable, however Optronis makes no warranties as to its accuracy or completeness. Data sheet is subject to modifications at any time. 08/2018