

CAMPERFORM-CYCLONEFIBER SERIES

CycloneFiber-65

High-Speed Machine Vision Camera



- ☑ OUTDOOR TEST AREA
- ☑ MEDICAL ENVIRONMENT
- ☑ PRODUCTION FLOOR INSPECTION
- 71 fps with 9344 x 7000 pixels
- Global shutter mode with low noise pixel
- CoaXPress-over-Fiber 40 Gbit/s
- EMC immune transmission up to 20 km
- Trigger via CoaXPress-over-Fiber

CycloneFiber-65 High-Speed Machine Vision Camera



FEATURES

CycloneFiber-65 is a very high reslution, high speed camera with 65 MPixel. At full resolution the camera provides 71 fps. It is desinged for machine vision applications requiring high-resolution. The camera uses the CoaX-Press-over-Fiber (CoF) de-facto standard protocol. Standard QSFP+ optical transceiver modules can be installed. The main advantage of this transmission is the long range and immunity to EM interference.

- 9344 x 7000 pixel resolution
- low noise pixel

Firmware features

- Analogue gain, RGB gain and offset adjustment
- Defect pixel correction (customer activatable)
- Dual ROI and line skipping

PERFORMANCE (EXAMPLES, 8 BIT, SEE ALSO FRAME RATE CALCULATOR)

Resolution (HxV)	Frame rate	Resolution (HxV)	Frame rate
9344 x 7000	71 fps	9344 x 3500	141 fps
4672 x 3500	141 fps	9344 x 1752	280 fps
3840 x 2160	228 fps	9280 x 876	550 fps
1920 x 1080	449 fps	9280 x 256	1736 fps
1 280 x 720	664 fps	9280 x 4	13885 fps

MODELS

CycloneFiber-65-M	monochrome Camera
CycloneFiber-65-C	color Camera,
Scope of delivery	Camera, brief introduction, power supply (except some contries)
ACCESSORIES	

	power suppry (except some contines)
ACCESSORIES	
CY-CM	C-Mount lens adapter
CY-FM	F-Mount lens adapter
CY-M42	M42 Mount lens adapter
CPH6-PTC	Pig tail cable for synch
CPH6-USB	Programming Cable
CY-FAN2	Cooling Fan

SPECIFICATIONS

Sensor type	GMAX3265, Global Shutter
Resolution	9344 pixel x 7000 pixel
Frame rate (full resolution)	1 71 fps
Exposure time	12 μs 1 / frame rate
Active area / Diagonal	29.90 mm x 22.40 mm / 37.36 mm
Pixel distance	3.2 µm x 3.2 µm
A/D conversion	8/10 Bit
Quantum efficiency (sensor)	65 % @ 500 nm
Synchronization	internal, external, CoF
Synchronization signals	Synch IN and Synch OUT, TTL level, electrically isolated
Interface	QSFP+ port
Protocol	CoaXPress-over-Fiber (CoF)
Power (incl. 1.5 W QSFP+ module)	16 W
Temperature Ranges - operation, amb operation, amb., with CY-FAN - operation, case temperature	0 +25°C / 32 77°F 0 +45°C / 32 113°F 0 +60°C / 32 140°F
Weight	540 g w/o mount, w/o cooling
Dimensions	65 mm x 65 mm x 107 mm (3D model data available)

EMVA1288 measurements (v3.1 typ.)

	71: 7
Dynamic range	57 dB
Saturation capacity	10 500 e ⁻
Temporal dark noise	18 e ⁻
System gain	46 e ⁻ /DN
Signal-to-Noise Ratio	40 dB
DSNU	58 e ⁻
PRNU	2 %
Non-linearity error (v 3.0)	0.3 %

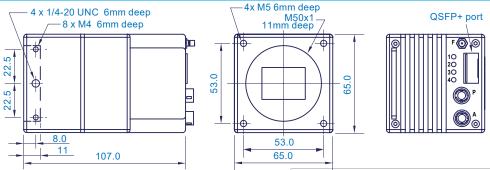








TECHNICAL DRAWINGS



CONTACT INFORMATION

 Optronis GmbH
 Phone: +49 7851 91 26 - 0

 Ludwigstraße 2
 Fax: +49 7851 91 26 - 10

 77694 Kehl
 info@optronis.com

 Germany
 www.optronis.com

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