

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



Make time visible

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

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
CPH4-PSA	Power Supply

For camera operation, power supply and typically one lens mount are needed.

SPECIFICATIONS

GMAX3265, Global Shutter
9344 pixel x 7000 pixel
1 71 fps
12 µs 1 / frame rate
29.90 mm x 22.40 mm / 37.36 mm
3.2 µm x 3.2 µm
8/10 Bit
65 % @ 500 nm
internal, external, CoF
Synch IN and Synch OUT, TTL level, electrically isolated
QSFP+ port
CoaXPress-over-Fiber (CoF)
16 W
0 +25°C / 32 77°F 0 +45°C / 32 113°F 0 +60°C / 32 140°F
540 g w/o mount, w/o cooling
65 mm x 65 mm x 107 mm

EMVA1288 measurements (v3.1 typ.)

Livia 1200 measurements (vo. 1 typ.)			
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 %		

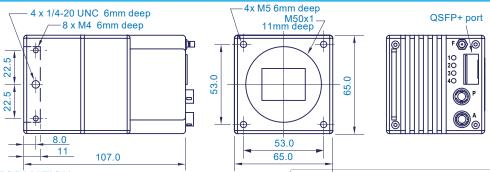








TECHNICAL DRAWINGS



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