

MACHINE VISION CAMERA

CamPerform

CP70-2-M/C-1000



- ✓ METROLOGY
- ☑ 3D SCANNING
- ✓ INLINE INSPECTION
- 1 087 fps with 1 920 x 1 080 pixels with 8 bit A/D conversion
- High light sensitivity due to large 10 µm pixels
- DIN 1.0/2.3 connectors with thread lock
- CoaXPress interface with 25 Gbit/s
- Power and trigger via CoaXPress
- EMVA1288 characterization

CamPerform CP70-2-M/C-1000



Make time visible

FEATURES

The CP70-2-M/C-1000 camera provides full HD resolution at more than 1000 fps. Large pixels with 10 µm x 10 µm pitch result in high light sensitivity. Low noise design ensures accurate date to simplify mesurement tasks.

- full HD resolution
- high light sensitivity
- frame rate increases with vertial and horizontal window size reduction

Firmware features

- Analogue gain adjustment
- Analogue offset adjustment
- LUT (factory set)
- Framenumber and Microsecond counter on image

PERFORMANCE (EXAMPLES)

Resolution (HxV)	Frame rate	Resolution (HxV)	Frame rate
1 920 x 1 080	1 087 fps	1 920 x 512	4064 fps
1 280 x 720	2332 fps	1 920 x 256	4 559 fps
640 x 480	5 186 fps	320 x 240	9 049 fps
256 x 256	9689fps	128 x 128	17 825 fps
100 x 100	24 509 fps	224 x 4	34 602 fps

MODELS

Article number	Description
CP70-2-M-1000	monochrome Camera
CP70-2-C-1000	color Camera
Scope of delivery	Camera, brief introduction

ACCESSORIES

Lens mounts: C-mount, F-mount, G-mount, M42-mount

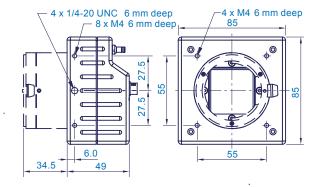
Power supply, pig tail cable, programming cable

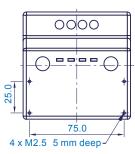
SPECIFICATIONS

of Edit Idaliano		
Sensor type	LUX19HS, Global Shutter	
Resolution	1 920 pixel x 1 080 pixel	
Frame rate (full resolution)	20 1 087 fps	
Exposure time	2 μs 1 / frame rate	
Active area / Diagonal	19.20 mm x 10.80 mm / 22.029 mm	
Pixel size	10 μm x 10 μm	
A/D conversion	8 Bit	
Sensitivity (sensor)	20 V/lux·s @ 550 nm	
Synchronization	internal, external, CoaXPress	
Synchronization signals	Synch IN and Synch OUT, TTL level, electrically isolated	
Interface	CoaXPress 1.1 (4 ch., CXP-6) DIN 1.0/2.3 connectors	
Power	<10 W, PoCXP, ext.	
Operating ambiente temperature	0 +40°C / 32 104°F	
Weight	400 g without mount	
Dimensions	85 mm x 85 mm x 49 mm (3D model data available)	
EMVA1288 camera measurements (typ. preliminary)		
Dynamic range	52 dB	
Saturation capacity	43 700 e ⁻	
Temporal dark poise	32 p-	

Dynamic range	52 dB
Saturation capacity	43 700 e ⁻
Temporal dark noise	32 e ⁻
System gain	68 e ⁻ /DN
Signal-to-Noise Ratio	42 dB
DSNU	109 e ⁻
PRNU	- %
Non-linearity error LE_{\min} , LE_{\max}	2 %

TECHNICAL DRAWING











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

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. Version B

