

MACHINE VISION CAMERA

CamPerform

CP70-16-M/C-148



- ☑ METROLOGY AND HIGH SPEED MACHINE VISION
- ✓ MOTION ANALYSIS
- ☑ BROADCAST
- 148 fps with 4 672 x 3 416 pixels
- Global shutter with low noise pixel
- New DIN 1.0/2.3 connectors with thread lock
- CoaXPress interface with 25 Gbit/s
- Power and trigger via CoaXPress
- Microsecond and frame counter

CamPerform CP70-16-M/C-148



Make time visible

FEATURES

The CP70-16-M/C-148 is a very high resolution camera with low noise pixels. Frame rate increase is possible by vertial but also horizontal resolution reduction. This makes the camera a flexible tool for many applications and measuremetns tasks.

- 4672 x 3416 pixel resolution
- low noise pixel
- frame rate increases with vertical and horizontal window size reduction

Firmware features

- Analogue gain adjustment
- Analogue offset adjustment
- Hot pixel correction (customer activatable)
- Framenumber and Microsecond counter on image

PERFORMANCE (EXAMPLES)

Resolution (HxV)	Frame rate	Resolution (HxV)	Frame rate
4672 x 3416	148 fps	4672 x 512	988 fps
4080 x 3072	187 fps	4672 x 256	1 968 fps
4 080 x 2 048	281 fps	4672 x 128	3 907 fps
2048 x 1024	1012fps	4672 x 32	14939fps
1 024 x 512	2021 fps	2048 x 32	30 557 fps

MODELS

Article number	Description
CP70-16-M-148	monochrome Camera
CP70-16-C-148	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

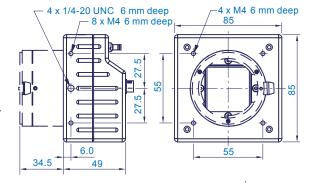
SPECIFICATIONS

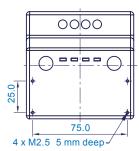
Sensor type	LUX160, Global Shutter
Resolution	4 672 pixel x 3 416 pixel
Frame rate (full resolution)	20 148 fps
Exposure time	4 µs 1 / frame rate
Active area / Diagonal	18.221 mm x 13.322 mm / 22.572 mm
Pixel size	3.9 µm x 3.9 µm
A/D conversion	8 Bit
Sensitivity (sensor)	5 V/lux·s @ 550 nm
Synchronization	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)
FMVA1288 camera measuremen	nts (typ. Preliminary)

EMVA1288 camera measurements (typ. Preliminary)

Dynamic range	55 dB
Saturation capacity	22 700 e ⁻
Temporal dark noise	10 e ⁻
System gain	34 e ⁻ /DN
Signal-to-Noise Ratio	39 dB
DSNU	135 e ⁻
PRNU	- %
Non-linearity error LE _{min} , LE _{max}	1 %

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

