

MACHINE VISION CAMERA

# CamPerform

## CP90-4-M/C-500



- METROLOGY
- LASER TRIANGULATION
- INLINE INSPECTION

- 23000 fps with 2304x32 pixels with 8 bit A/D conversion
- New DIN 1.0/2.3 connectors with thread lock
- CoaXPress interface with 25 Gbit/s
- Power and trigger via CoaXPress
- Monochrome and color sensor
- EMVA1288 standard

# CamPerform CP90-4-M/C-500

**Optronis**

Make time visible

## MODEL OPTIONS

Article number	Description
CP90-4-M-500	monochrome Camera
CP90-4-C-500	color Camera
CP90-CM	C-Mount lens adapter
CP90-FM	F-Mount lens adapter
CP90-PTC	Pig tail cable for sync

## PERFORMANCE (EXAMPLES)

Resolution ( H x V )	Frames / second
2304 x 1720	500 fps
1920 x 1080	800 fps
1280 x 720	1200 fps
2304 x 80	10000 fps
2304 x 32	23000 fps (28000 fps +mode)

## STANDARDS

Conformity (documents available on request)

EMVA1288	Version 3.0
CoaXPress	Version 1.1
GenICam	Fully supported
Shock & Vibration	DIN EN 60721-3-2
ISO	9001:2015
Conformity	CE, RoHS



## SPECIFICATIONS

Sensor resolution	2304 x 1720 faster frame rates with smaller Y window size
Frame rate @ max. sensor res.	500 fps
Image sensor	AM41 global shutter CMOS
Exposure time	2 μs - 1/Frame rate
Active area	16.13 mm x 12.04 mm
Sensor diagonal dimension	20.13 mm
Pixel size	7.0 μm
A/D conversion	8 Bit
Dynamic (EMVA1288)	50 dB
Sensitivity	8 V/lux*s @525 nm
Saturation capacity (FWC)	20000 e-
SNR (EMVA1288)	43 dB
DSNU1288	170 e-
PRNU1288	1,5 %
Non-linearity error (5-95 %)	<1 %
Shutter efficiency	global electronic shutter
Trigger signal	TTL, 3.3 - 5 V, 10 mA, optically isolated
Trigger modes	internal free-run, external, CXP
Interface	CoaXPress (4 Channel, CXP-6) DIN 1.0/2.3 connectors 25 Gbit/s
Power	PoCXP (9.5 Watt)
Lens mount	F-Mount, C-Mount, M42 and custom
Weight	400 g without mount
Dimensions	85 mm x 85 mm x 62.5 mm (3D-Step file on request)
Housing	lightweight anodised aluminium
Scope of delivery	camera and manual

## TECHNICAL DRAWING

