

MACHINE VISION CAMERA

CamPerform

CP90-3-M/C-540



- METROLOGY
- 2D/3D AOI
- INLINE INSPECTION

- 540 fps with 1696x1710 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

MODEL OPTIONS

Article number	Description
CP90-3-M-540	monochrome Camera
CP90-3-C-540	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
1696 x 1710	540 fps
1280 x 720	1652 fps
800 x 600	2954 fps
512 x 512	4894 fps
128 x 128	37700 fps

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	1696 x 1710 faster frame rates with smaller X,Y window size
Frame rate @ max. sensor res.	540 fps
Image sensor	Lupa 3000 Global Shutter CMOS
Exposure Time	2 μ s - 1/Frame rate
Active Area	13.57 mm x 13.68 mm
Sensor Diagonal Dimension	19.27 mm
Pixel Size	8 μ m
A/D Conversion	8 Bit (LUT optional)
Dynamic	55 dB
Sensitivity	3.8 V/lux*s @525 nm
Saturation capacity (FWC)	27000 e-
SNR	43 dB
DSNU1288	270 e-
PRNU1288	1.7 %
Non-linearity error	<0.6 %
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 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

