

MACHINE VISION CAMERA

CamPerform

CP90-25P-M/C-72



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

- On Semi Python sensor with 5120x5120 pixels @ 72 fps
- 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 |
|----------------|-------------------------|
| CP90-25P-M-72 | monochrome Camera |
| CP90-25P-C-72 | 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 |
|----------------------|-----------------|
| 5120 x 5120 | 72 fps |
| 4000 x 2000 | 231 fps |
| 3000 x 2000 | 284 fps |
| 1920 x 1080 | 506 fps |
| 1280 x 720 | 729 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 | 5120 x 5120 faster frame rates with smaller X,Y window size |
| Frame rate @ max. sensor res. | 72 fps |
| Image sensor | Pyhton25k Global Shutter CMOS |
| Exposure time | 100 μs - 1/Framerate |
| Active area | 23.04 mm x 23.04 mm |
| Sensor diagonal dimension | 32.58 mm |
| Pixel size | 4.5 μm |
| A/D conversion | 10 Bit, 8 Bit (LUT optional) |
| Dynamic | 59 dB |
| Sensitivity | 5.8 V/lux*s @555 nm |
| Saturation capacity (FWC) | 12000 e- |
| SNR | 41 dB |
| DSNU1288 | TBD e- |
| PRNU1288 | TBD % |
| Non-linearity error | <TBD % |
| 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 (TBD 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

