

Special Solution TrackCam

MV-D1024-TRACKCAM

Don't Lose Your Target!

Features

- 1024 x 1024 pixel resolution
- Global shutter
- LinLog[®] functionality
- Dynamic range up to 120 dB
- Up to 75 fps @ full resolution
- Multiple Region of Interest (MROI)
- CameraLink[®] interface
- 8 bit greyscale
- Superior Signal-to-Noise Ratio (SNR)
- Look-up Table (LUT)
- CE, RoHS & WEEE compliant



Application Examples

Machine vision

- Standard vision applications
- PCB inspection
- Welding & soldering
- Laser triangulation
- High-speed laser pattern tracking with dynamic windowing

Motion analysis

- High-speed object tracking
- Slow-motion sequences
- Biomedical applications

Accessories

- Suitable power supply 5 Volt
- Power & signal connector 3 pin (included in the shipment)
- CL cables
- A selection of suitable lenses is available on our website www.photonfocus.com. Lenses are not included.

Frame grabber

A compatible frame grabber is available on request. Please contact us for more information

MV-D1024-TrackCam

Image Sensor

Technology	CMOS active pixel
Scanning system	Progressive scan
Optical format / diagonal	1" / 15.42 mm
Resolution	1024 x 1024 pixels
Pixel size	10.6 µm x 10.6 µm
Active optical area	10.9 mm x 10.9 mm
Random noise	< 0.5 DN RMS @ 8 bit / gain = 1
Fixed pattern noise (FPN)	< 2.5 DN RMS @ 8 bit / gain = 1
Dark current	2 fA/pixel @ 30°C
Full well capacity	200 ke ⁻
Spectral range	400 nm ... 900 nm
Responsivity	120 x 10 ³ DN / (J/m ²) @ 610 nm / 8 bit / gain = 1 (approximately 350 DN / (lux s) @ 610 nm / 8 bit / gain = 1)
Optical fill factor	35 %
Dynamic range	Up to 120 dB (with LinLog®)
Colour format	Monochrome
Characteristic curve	Linear, LinLog®, Skimming
Shutter mode	Global shutter
Read out mode	Sequential read out

Camera

Exposure time	10 µs ... 0.5 s / 50 ns steps
Frame rate	75 fps
Pixel clock	40 MHz
Camera taps	2
Greyscale resolution	8 bit
Analogue gain	1 or 4
Configuration interface	CL SERIAL (9600 baud) and high-speed synchronous (40 Mbits/s)
Trigger modes	• Free running (non triggered) • Edge controlled trigger • Level controlled
Features	• Multiple Regions of Interest (ROI) • Look-up-Table (LUT) • High-speed configuration interface • Skimming • LinLog®
Interface	CameraLink® base configuration
Operating temperature	0 °C ... +60 °C
Power supply	+5 V DC (+10 % / -5 %)
Power consumption	2.0 W
Lens mount	C-Mount
Dimensions	55 x 55 x 46 mm ³
Mass	200 g
Conformity	CE / RoHS / WEEE
Special	Microbench compatible mountings

Software

Camera control	PFRemote™ graphical user interface (GUI) and PFLib (SDK) - Frame grabber GUI & SDK for 40 Mbits / s high-speed configuration
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