CMOS Cameras

MV-D1024-TRACKCAM

Don't Lose Your Target!

Benefits

– Change of camera parameters
  frame by frame beyond 1000 fps
– Up to 75 fps at full resolution
– High-speed configuration interface
  (40 Mbit / s)
– Sequencing between different
  capture modes
– Exceptional linear response curve
– Superior SNR (Signal to Noise Ratio)
– Ultra low trigger delay and jitter
– Region of Interest (ROI)
– CameraLink™ interface
– Look-up table (LUT)
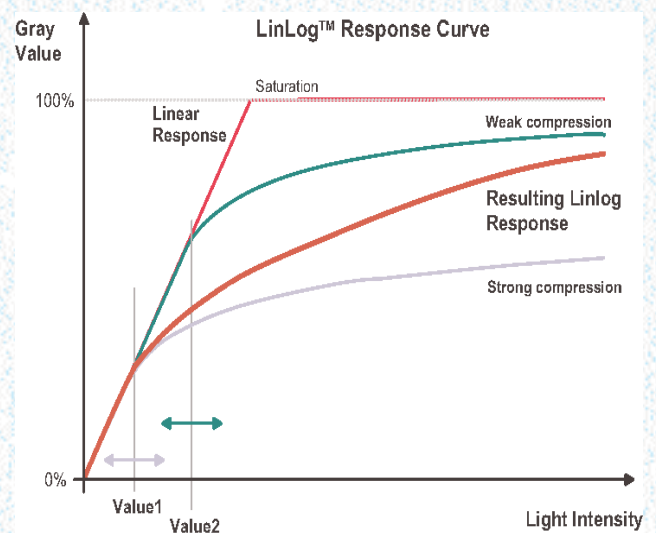– LinLog™ functionality

MV-D1024-TrackCam

Application examples

Machine vision

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

Motion analysis

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

LinLog™ Response Curve

Visit our website www.photonfocus.com for application reports.

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MV-D1024-TRACKCAM

Don't Lose Your Target!

– Digital 1" monochrome CMOS camera with 1024 x 1024 pixels
– Up to 75 frames per second with full resolution
– Up to 120 dB dynamic range with LinLog™ technology

– High-speed configuration interface (40 Mbits / s) with selected frame grabbers
– CameraLink™ base interface
– 100% CameraLink™ compatible with standard CameraLink™ frame grabbers (9600 baud)

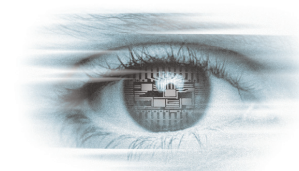|	MV-D1024-TrackCam
Image Sensor	
Technology	CMOS active pixel
Scanning system	Progressive scan
Optical format / diagonal	1" / 15.42 mm
Resolution	1024 x 1024 pixels
Pixel size	10.6 x 10.6 µm²
Active optical area	10.9 x 10.9 mm²
Random noise	< 0.5 DN RMS @ 8 bit / gain = 1
Fixed pattern noise (FPN)	< 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	120×10^3 DN / (J/m²) @ 610 nm / 8 bit / gain = 1 (approx. 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
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	• Region 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	2.5 W
Lens mount	C-Mount
Dimensions	55 x 55 x 46 mm³
Mass	200 g
Conformity	CE / UL
Special	Microbench compatible mountings
Software	
Camera control	PFRemote™ graphical user interface (GUI) and PFLib (SDK) - Framegrabber GUI & SDK for 40 Mbits / s high-speed configuration

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THE PERFECT EYE