CMOS CAMERAS OVERVIEW

Progressive Scan CMOS Cameras with Global Shutter

MV-D1024 Series



- Up to 150 fps at full resolution
- CameraLink™ interface
- Exceptional linear response curve
- Superior SNR (Signal to Noise Ratio)
- Multiple Regions of Interest (MROI)
- Ultra low trigger delay and jitter
- LinLog™ functionality, Look-up table (LUT)

MV-D640 Series



- Superior colour rendition
- Integrated filter holder
- Ultra low trigger delay and jitter
- Exceptional linear response curve
- Superior SNR (Signal to Noise Ratio)
- 10 or 8 bit greyscale or colour resolution (CameraLink™ only)
- CameraLink™ and USB2.0 interfaces

HURRICANE / THUNDER Series



- Image tag with main acquisition parameters
- LinLog™ functionality
- 12 bit digital output resolution
- Superior SNR (Signal to Noise Ratio)
- Opto isolated trigger and strobe I/Os
- Multiple Regions of Interest (MROI)
- CameraLink™ and USB2.0 interfaces
- Ultra low trigger delay and jitter

BLIZZARD Series



- High price performance ratio
- Up to 60 fps at full resolution
- LinLog™ functionality
- CameraLink™ interface
- Small form factor
- Superior SNR (Signal to Noise Ratio)
- Low power, low weight
- Region of Interest (ROI)
- 2 : 1 field of view

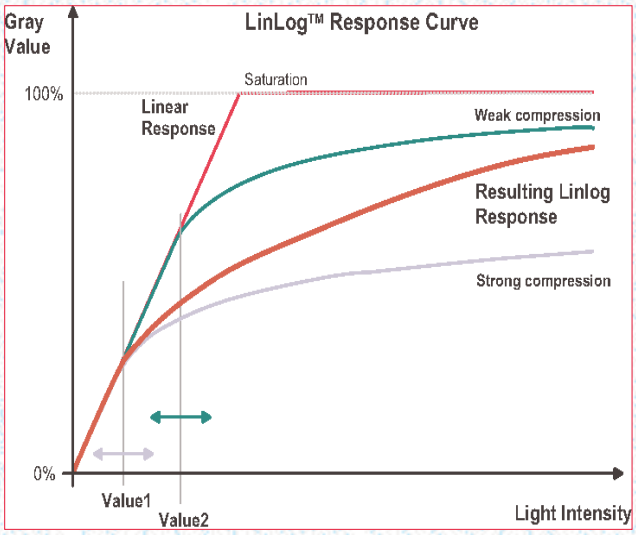
Application examples

Machine vision

- Standard vision applications
- PCB inspection
- Welding & soldering
- Laser triangulation
- Stereo vision systems
- Quality control

Motion analysis

- Slow-motion sequences
- Biomedical applications



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

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	HURRICANE-40	THUNDER-90	BLIZZARD-60	MV-D1024-80	MV-D1024-160	MV-D1024-TrackCam
Image Sensor						
Optical format / diagonal	1" / 15.42 mm	2/3" / 10.12 mm	2/3" / 9.0 mm	1" / 15.42 mm		
Resolution	1024 x 1024 pixels	752 x 582 pixels	750 x 400 pixels	1024 x 1024 pixels		
Responsivity @ 610 nm / gain = 1	120 x 10^3 DN / (J/m²) @ 8 bit (approx. 350 DN / (lux s) @ 8 bit)		480 x 10^3 DN / (J/m²) @ 10 bit (approx. 1400 DN / (lux s) @ 10 bit)	120 x 10^3 DN / (J/m²) @ 8 bit (approx. 350 DN / (lux s) @ 8 bit)		
Dynamic range	Up to 120 dB (with LinLog™)					
Colour format	Monochrome					
Characteristic curve	Linear, LinLog™, Skimming					
Camera						
Frame rate monochrome / colour	37 fps	87 fps	60 fps	75 fps	150 fps	75 fps
Camera taps	1			2		
Greyscale resolution	12 bit / 10 bit / 8 bit		10 bit	8 bit		
Minimum Region of Interest	9 x 1 pixels		16 x 1 pixels	4 x 1 pixels		
Features	• (Multiple) Region of Interest (ROI/MROI) • Look-up table • Unique trigger features • Decimation in x / y direction			• (Multiple) Region of Interest (ROI/MROI) • Enhanced trigger features • Look-up table		• Look-up table
	• Skimming • LinLog™					
Interfaces	CameraLink™ base configuration					
	USB 2.0		-			
Operating temperature	0 °C ... 60 °C					
Power consumption	1.6 W (CameraLink) 3.0 W (USB 2.0)		0.8 W	2.5 W		
Dimensions	55 x 55 x 39 mm³ (CL) / 55 x 55 x 49 mm³ (USB 2.0)		55 x 55 x 24 mm³	55 x 55 x 46 mm³		
Mass (CameraLink™ / USB 2.0)	200 g (CL) / 210 g (USB 2.0)		150 g	200 g		

	MV-D752-80-CL-8	MV-D752-160-CL-8	MV-D640C-33-CL-10 MV-D640-33-CL-10	MV-D640C-66-CL-10 MV-D640-66-CL-10	MV-D640C-48-U2-10 MV-D640-48-U2-10
Image Sensor					
Optical format / diagonal	2/3" / 10.12 mm		1/2" / 7.92 mm		
Resolution	752 x 582 pixels		640 x 480 pixels		
Responsivity	120 x 10^3 DN / (J/m²) @ 610 nm / 8 bit / gain = 1 (approx. 350 DN / (lux s) @ 610 nm / 8 bit / gain = 1)		480 x 10^3 DN / (J/m²) @ 630 nm / 8 bit / gain= 1 / monochrome (approx. 2600 DN / lux s) @ 630 nm / 8 bit / gain = 1 / monochrome)		
Dynamic range	Up to 120 dB (with LinLog™)		60 dB (SNR 48 dB)		
Colour format	Monochrome		Colour (RGB Bayer) or Monochrome		
Characteristic curve	Linear, LinLog™, Skimming		Linear		
Camera					
Frame rate monochrome / colour	175 fps	350 fps	100 fps / 100 fps	200 fps / 200 fps	129 fps / 42 fps (24 bit colour)
Camera taps	2		1		
Greyscale resolution	8 bit		10 bit / 8 bit		8 bit
Minimum Region of Interest	4 x 1 pixels		4 x 1 pixels		
Features	• Region of Interest (ROI) • Line Hopping • Skimming • LinLog™ • Look-up table		• Region of Interest (ROI)		• Region of Interest (ROI)
Interfaces	CameraLink™ base configuration		CameraLink™ base configuration		USB 2.0
Operating temperature	0 °C ... 60 °C				
Power consumption	2.0 W		1.5 W	1.7 W	3.3 W
Dimensions	55 x 55 x 46 mm³		55 x 55 x 37 mm³		55 x 55 x 48 mm³
Mass	200 g				

For more information about our worldwide distributors please visit our website.

Photonfocus cannot be held responsible for any technical or typographical errors.

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THE PERFECT EYE

