

CMOS Cameras

BLIZZARD SERIES

Small and Smart

Benefits

- High price-performance ratio
- Up to 60 fps at full resolution
- Superior SNR (Signal to Noise Ratio)
- LinLog™ functionality
- Low power, low weight
- Region of Interest (ROI)
- CameraLink™ and USB2.0 interfaces
- Small form factor
- 2 : 1 field of view

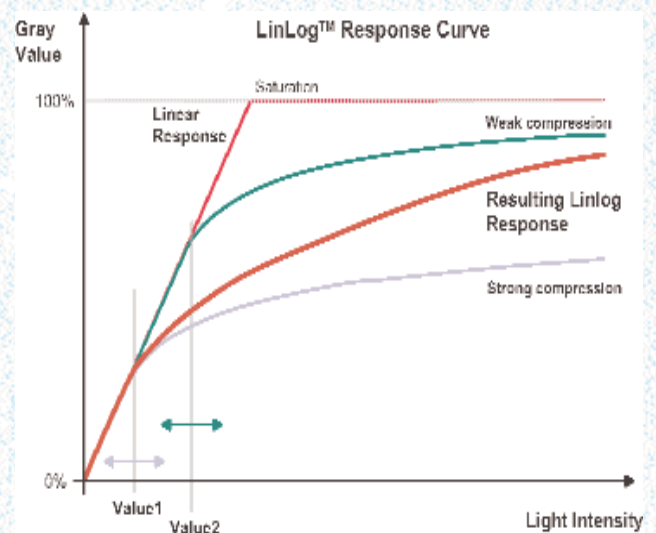


BLIZZARD-60

Application examples

Machine vision

- Standard vision applications
- Cost-sensitive applications
- Welding & soldering
- Laser triangulation
- Pick and place applications
- Line scan applications
- Quality control
- Process control



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

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Small and Smart

- Digital 2/3" monochrome CMOS camera with 750 x 400 pixels
- Up to 60 frames per second with full resolution
- Up to 120 dB dynamic range with LinLog™ technology
- No motion artefacts due to global shutter
- No image lags, no smear, no blooming
- Low power consumption
- 10 bit digital output (CL interface)
- CameraLink™ and USB2.0 interfaces
- Very compact & robust industrial housing

BLIZZARD-60-CL	BLIZZARD-60-U2
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Image Sensor	
Technology	CMOS active pixel
Scanning system	Progressive scan
Optical format / diagonal	2/3" / 9.0 mm
Resolution	750 x 400 pixel (active 748 x 400)
Pixel size	10.6 x 10.6 µm²
Active optical area	7.95 x 4.3 mm²
Colour format	Monochrome
Shutter mode	Global shutter
Dynamic range	Up to 120 dB (with LinLog™)
Responsivity	480 x 10³ DN / (J/m²) @ 610 nm / 10 bit / gain = 1 (approx. 1400 DN / (lux s) @ 610 nm / 10 bit / gain = 1)
Characteristic curve	Linear, LinLog™, Skimming
Random noise	< 1.5 DN RMS @ 10 bit / gain = 1
Fixed pattern noise (FPN)	< 15 DN RMS @ 10 bit / gain = 1
Dark current	2 fA/pixel @ 30 °C
Optical fill factor	35%
Full well capacity	200 ke⁻
Greyscale resolution	10 bit
Minimum Region of Interest (ROI)	6 x 1 pixel
Spectral range	380 nm ... 950 nm
Readout mode	Sequential integration and readout

Camera	
Exposure time	10 µs ... 500 µs / 10 µs steps (linear response curve), 500 µs ... 52 ms / 500 µs steps (all modes)
Frame rate	60 fps
Pixel clock	20 MHz
Camera taps	1
Programmable gain	1 ... 8
Configuration interface	CL SERIAL (9600 baud)
Trigger modes	• Free running (non triggered) • Level controlled • Software controlled
Features	• Region of Interest (ROI) • Skimming • LinLog™
Interfaces	CameraLink™ base configuration USB2.0
Operating temperature	0 °C ... + 60 °C
Power supply	+ 12 V DC +/- 10%
Power consumption	0.8 W 2.2 W
Lens mount	C-Mount (CS-Mount optional)
Dimensions (CS-Mount)	55 x 55 x 24 mm³ 55 x 55 x 48 mm³
Mass	150 g 200 g
Conformity	CE / UL
Special	Adjustable backfocus

Software	
Camera control	PFRremote™ graphical user interface (GUI) and PFLib (SDK); for USB: MicroDisplay GUI + SDK

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