

## CCIR Cameras

# MV-D752 SERIES

## High-Dynamic Range CCIR

### Features

- 752 x 582 pixel resolution
- Global shutter
- LinLog<sup>®</sup> functionality
- Dynamic range up to 120 dB
- Up to 350 fps @ full resolution
- Region of Interest (ROI)
- CameraLink<sup>®</sup> interface
- 10 or 8 bit greyscale
- Superior Signal-to-Noise Ratio (SNR )
- Look-up Table (LUT)
- CE, RoHS & WEEE compliant



### Application Examples

#### Machine vision

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

#### Motion analysis

- 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](http://www.photonfocus.com). Lenses are not included.



MV-D752-28-CL-10	MV-D752-80-CL-8	MV-D752-160-CL-8
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**Image Sensor**

Technology	CMOS active pixel
Scanning system	Progressive scan
Optical format / diagonal	2/3" / 10.12 mm
Resolution	752 x 582 pixels
Pixel size	10.6 µm x 10.6 µm
Active optical area	8.0 mm x 6.2 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 <sup>-</sup>
Spectral sensitivity	400 nm ... 900 nm
Responsivity	120 x 10 <sup>3</sup> DN / (J/m <sup>2</sup> ) @ 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 or LinLog®
Shutter mode	Global shutter
Read out mode	Sequential read out

**Camera**

Exposure time	10 µs ... 0.5 s / 35 ns steps	10 µs ... 0.5 s / 50 ns steps	10 µs ... 0.5 s / 25 ns steps
Frame rate	60 fps	175 fps	350 fps
Pixel clock	28 MHz	40 MHz	80 MHz
Camera taps	1	2	
Greyscale resolution	10 bit	8 bit	
Analogue gain	1 or 4		
Configuration interface	CL SERIAL (9600 baud)		
Trigger modes	<ul style="list-style-type: none"> <li>• Free running (non triggered) • External trigger</li> <li>• Start/stop trigger • Combined trigger</li> <li>• Region of Interest (ROI) • Line Hopping</li> <li>• Skimming • LinLog® • Options: Master and slave modes</li> <li>• Look-up Table (LUT)</li> </ul>		
Features	-		
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 <sup>3</sup>		
Mass	200 g		
Conformity	CE / RoHS / WEEE		
Special	Microbench compatible mountings		

**Software**

Camera control	PFRremote™ graphical user interface (GUI) and PFLib (SDK)
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