

LOGLUX[®] i5A CameraLink[®]

Digital CMOS Camera



LOGLUX[®] i5A CameraLink[®] is a CMOS camera for industrial image processing, which can be perfectly adapted to various possible applications in this field.

Based on the reliable previous model some of the remarkable features of this camera:

- progressive scan CMOS digital camera with CameraLink[®] interface
- > 100 dB dynamic range in same image area
- 1.3 MPixel resolution, 25 full frames/s, bis 1500 subframes/s in ROI (Region Of Interest)
- 10 bit grey level effective, up to 8 /12/ 14/ 16 bit adaptable
- robust camera case for rough industry use with standardised C-Mount objective adapter
- intuitively using Windows[®] software interface
- script capable ASCII configuration protocol

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Specifications

Frame format:	1280 x 1024 Pixel ($\frac{2}{3}$ “ sensor diagonal) free changeable ROI	Pre-processing functions: Testcard, three user definable LUT <u>optional:</u> , Aim cross‘, pixel binning, matrix operations in real-time etc.
Pixel size:	6,7 x 6,7 μm^2	Interfaces:
Grey level resolution:	10 bit effective	- CameraLink® (<i>base</i>)
Pixel transfer rate:	max. 40 MPixel/s, free adjustable	- RS-232/RS-485, 115kBaud, galvanic separated
Frame rate:	25 full frames/s, up to 1500 subframes/s at ROI	- one trigger input, 24 VDC galvanic separated
Shutter principles:	rolling shutter central shutter	- two switch outputs 24 VDC/ max. 500 mA (low-side-sw.)
Dynamic range:	67 dB linear, > 100 dB im <i>multiple integration slope mode</i>	- Composite FBAS
FPN:	< 0,5 % RMS	Configuration: - 6 user definable profiles - bootable with initial settings
Sensitivity:	4,7 V/(lx · s) in visible and NIR range (70 lx = 1 W/m ²)	Power supply: 18 ... 35 VDC
S/N:	120000:85 (central shutter) 120000:75 (rolling shutter)	Power reception: < 3 W
Spectral range of work:	400 ... 1000 nm	Temperature range: 0 ... 60 °C
		Dimension (without objective) H x B x T: 55 x 75 x 100 mm ³
		Weight (without objective): ca. 400 g
		Objective interface: C-Mount

For special applications can be loaded user-specific firmware versions (ISP).

With a LOGLUX i5A SET user will receive via an integrated live picture viewer a camera live picture immediately, which can be stored as static frame or as frame sequence. User can store different camera configuration settings in six camera internal profiles. Except of this he has available pre-programmed profiles, which can be easily integrated in his application.

Image data's can be pre-processed already in the camera by look-up tables (LUT). In addition to the static programmed functions user can load up to three user-specific LUT with own functional values.

Components in extent of supply (incl. camera)	LOGLUX® i5A CL	LOGLUX® i5A CL SET
CameraLink® data cable (three meters long)	x	x
RS-232/RS-485 control cable (three meters long)	x	x
Plug-in power supply 24 VDC	x	x
Digital CameraLink® frame grabber PC card		x

Furthermore accessories (e.g. DIN/EN55022 rail power supply etc.), fitting objectives as well as optical additional elements (filter etc.) are available on enquiry.

Possible camera applications at

- **Machine Vision**
- **Process- and automation technology**
- **Transportation engineering**
- **Safety technology**
- **Medicine technology**

And many other more ...

