

LOGLUX[®] i5 CL

Digital CMOS Cameras



LOGLUX[®] i5 CL

The LOGLUX[®] i5 series provides CMOS cameras for industrial image processing, which can be perfectly adapted to various possible applications. Based on the reliable previous model the new generation impresses with the following features:

- Progressive scan CMOS digital camera
- 36 full frames per second
- 1280 x 1024 pixel (H x V)
- 10 bit or 8 bit grey level effective
- Dynamic range more than 100 dB
- CameraLink[®] and FireWire[™] interface types
- Isolated local trigger input and 2 switch output
- Standardized C-Mount lens adapter
- Small and sturdy camera body for rough industrial use
- intuitively Windows[®] software

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Specifications

Sensor format:	1280 x 1024 Pixel ($\frac{2}{3}$ " sensor diagonal) free changeable ROI								
Pixel size:	6,7 x 6,7 μm^2								
ADC resolution:	10 bit effective								
Frame transfer rate:	<table><thead><tr><th>Pixel</th><th>fps</th></tr></thead><tbody><tr><td>1280 x 1024</td><td>36</td></tr><tr><td>1024 x 768</td><td>58</td></tr><tr><td>320 x 240</td><td>445</td></tr></tbody></table>	Pixel	fps	1280 x 1024	36	1024 x 768	58	320 x 240	445
Pixel	fps								
1280 x 1024	36								
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320 x 240	445								
Shutter modes:	rolling shutter central shutter								
Dynamic range:	64 dB linear, > 100 dB in <i>multiple integration slope mode</i>								
FPN:	< 0,2 % RMS								
Sensitivity:	8,46 V/(lx · s) in visible and NIR range (70 lx = 1 W/m ²)								
S/N ratio:	1600 : 1 central shutter and rolling shutter								
Spectral range:	400...1000 nm								
Pre-processing functions:	Testcard, three user definable LUT <u>optional</u> : Aim cross, pixel binning, matrix operations in real-time etc.								
Interfaces:	- CameraLink® (base) - RS-232/RS-485, 115 kBaud, galvanic separated - one trigger input, 24 VDC galvanic isolated - two switch outputs 24 VDC/ max. 500 mA (low-side-switch)								
Configuration:	- 4 user definable profiles - bootable with initial settings								
Power supply:	18...35 VDC								
Power consumption:	< 2 W								
Temperature range:	0...60 °C								
Dimension H x B x T (mm / without lens):	54 x 46 x 82								
Lens interface:	C-Mount								
Weight:	ca. 250 g (without lens)								

LOGLUX® i5 CL (CameraLink®)

Scope of supply:

- Camera with LuxWare software and handbook (CDROM)

Options:

- Cable set CL1:
RS232 cable (3 m), split cable,
power supply
- Cable set CL2:
Interconnecting cable (3 m),
Splittbox, splitting power supply,
RS232 cable (3 m)
- CameraLink® cable (3 m, 5 m or 10 m)
- CameraLink® frame grabber PC card
(e.g. Matrix Vision MVtitan-CL)
- Fasting flat (thread: 1/4 " and 3/8 ")
- Fasting angel (thread: 12 x M4,
1/4 " and 3/8 ")

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

Possible camera applications at

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

User-specific firmware versions (ISP) can be loaded for special applications. With a LOGLUX® i5 CL the user will receive immediately via an integrated live picture viewer a camera live picture, which can be stored as static frame or as frame sequence. Different camera configuration settings in four camera internal profiles can be saved. Beside this pre-programmed profiles facilitate the integration in this application. Image data can already be pre-processed in the camera by look-up tables (LUT). In addition to the static programmed functions users can load up to three user-specific LUT with own functional values.

