

# **LOGLUX<sup>®</sup> i5 FW**

## **Digital CMOS Cameras**



LOGLUX<sup>®</sup> i5 FW

The LOGLUX<sup>®</sup> 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
- 25 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<sup>®</sup> and FireWire<sup>™</sup> 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<sup>®</sup> software

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KAMERA WERK DRESDEN  
GERMANY

## Specifications

<b>Sensor format:</b>	1280 x 1024 Pixel (2/3" sensor diagonal) free changeable ROI								
<b>Pixel size:</b>	6,7 x 6,7 µm <sup>2</sup>								
<b>ADC resolution:</b>	10 bit effective								
<b>Frame transfer rate:</b>	<table border="1"> <thead> <tr> <th>Pixel</th> <th>fps*</th> </tr> </thead> <tbody> <tr> <td>1280 x 1024</td> <td>25</td> </tr> <tr> <td>800 x 600</td> <td>69</td> </tr> <tr> <td>320 x 240</td> <td>417</td> </tr> </tbody> </table>	Pixel	fps*	1280 x 1024	25	800 x 600	69	320 x 240	417
Pixel	fps*								
1280 x 1024	25								
800 x 600	69								
320 x 240	417								
<b>Shutter modes:</b>	rolling shutter central shutter								
<b>Dynamic range:</b>	64 dB linear, > 100 dB in <i>multiple integration slope mode</i>								
<b>FPN:</b>	< 0,2 % RMS								
<b>Sensitivity:</b>	8,46 V/(lx · s) in visible and NIR range (70 lx = 1 W/m <sup>2</sup> )								
<b>S/N ratio:</b>	1600 : 1 central shutter and rolling shutter								
<b>Spectral range:</b>	400...1000 nm								
<b>Pre-processing functions:</b>	Testcard, three user definable LUT <u>optional</u> : Aim cross, pixel binning, matrix operations in real-time etc.								
<b>Interfaces:</b>	- two FireWire™ (IEEE1394a) - one trigger input, 24 VDC galvanic isolated - two switch outputs 24 VDC/ max. 500 mA (low side switch)								
<b>Configuration:</b>	- 4 user definable profiles - bootable with initial settings								
<b>Power supply:</b>	18...35 VDC								
<b>Power consumption:</b>	< 2 W								
<b>Temperature range:</b>	0...60 °C								
<b>Dimension H x B x T (mm / without lens):</b>	54 x 46 x 82								
<b>Lens interface:</b>	C-Mount								
<b>Weight:</b>	ca. 250 g (without lens) * at 8 bit image data selection								

## LOGLUX® i5 FW (FireWire™)

### Scope of supply:

- Camera with LuxWare software and handbook (CDROM)

### Options:

- Cable set FW1:  
2 x FireWire™ cable (6 - 6pol.plug),  
FireWire™ hub, power supply
- Cable set FW2:  
FireWire™ cable (6 - 6pol. plug),  
FireWire™ cable (4 - 6pol. plug),  
FireWire™ hub, power supply,
- FireWire™ cable (3m, 6 - 6 pol. plug)
- FireWire™ IEEE1394a interface  
PC card
- Fastening flat (thread: 1/4 " and 3/8")
- Fastening 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 FW 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.

