

Line Scan Camera SK8100VJRC-4L

CCD



Digital Triple-Line CCD color camera with 3 x 5360 RGB pixels
24 MHz pixel frequency, integration control



■ Sensor Characteristics

| | |
|------------------------|------------------------------|
| Sensor type: | CCD, Color |
| Pixel number: | 3 x 2700 |
| Pixel size: | 8 x 8 μm^2 |
| Active sensor length: | 21.6 mm |
| Pixel frequency: | 24 / 15 MHz |
| Max. line frequency: | 2.865 kHz |
| Min. integration time: | 0.01 ms |
| Max. integration time: | 20 ms |
| Spectral range: | 400 - 700 nm |
| Dynamic range: | 1:2000 (rms) |
| Line spacing (RGB): | 64 μm |
| Line color sequence: | red (R), blue (B), green (G) |

■ Mechanical data

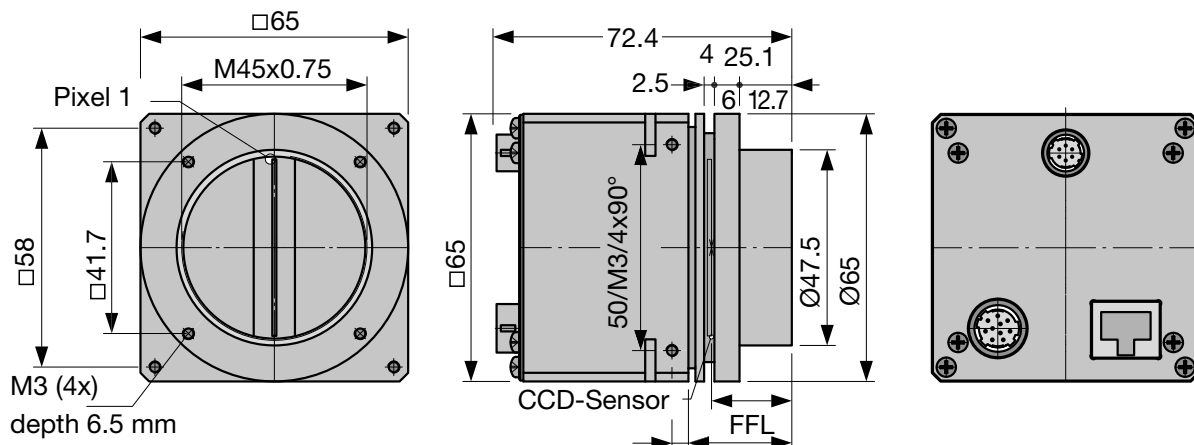
| | |
|----------------------------|--------------------------|
| Case type: | BG3 |
| Size: | 65 mm x 65 mm x 72.4 mm |
| Mass: | 0.3 kg |
| Lens mount: | M45x0.75 |
| Flange focal length (FFL): | 19.5 mm |
| Seat for bracket: | $\text{Ø}47.5\text{ mm}$ |

■ Functioning Features

| | |
|---------------------------|--------------|
| Blooming protection: | - |
| Integration control: | x |
| Shading correction: | x |
| Look-up table: | x |
| Region of interest (ROI): | x |
| Thresholding: | - |
| Temperature sensor: | x |
| External synchronization: | x |
| Operating temperature: | +5 ... +45°C |

■ Connections

| | |
|---------------------------|--|
| Interface: | GigE Vision RJ-45 (8P8C) |
| Video signals: | color 8/12 Bit digital |
| Power supply: | 24V DC, 3.6 W Hirose 10A, 4-pin, male |
| External synchronization: | TTL Hirose 10A, 12-pin, male |



Software



The Schäfter + Kirchhoff GigE Vision™ line scan cameras use the Gigabit Ethernet communication protocol and are 100% compliant with the GigE Vision™ specifications and the Gen<i>CAM™ standard. They implement a superset of the Gen<i>CAM™ specification which defines the device capabilities. The settings are made in the device feature list of any Gen<i>CAM™ compliant software.

The Gen<i>Cam™ standard provides a generic programming interface for all kinds of cameras and, no matter what features they implement, the application programming interface (API) always remains the same.

Accessories

CAT6 Network cable
 Shielded CAT6 patch cable, halogen-free, both ends with RJ45 connectors for Gigabit Ethernet

CAT6.x **Order Code**

└ cable length 3 / 5 / 10 m or length according to choice, max. 100 m

Power cable SK9014.xF
 for GigE Vision™ line scan cameras with 24 VDC supply voltage.

Shielded cable with Hirose plug HR10A, female 6-pin (camera side), and open-ended cable.

SK9014.xF **Order Code**

└ cable length 1.5 / 3 / 5 m

External synchronization cable SK9024...
 for line scan cameras with GigE / GigE Vision™ interface.

Shielded cable with Hirose plug HR10A, female 12-pin (camera side), and Phoenix 4-pin connector incl. terminal block.

SK9024.x **Order Code**

└ cable length 3 / 5 m
 Other lengths on request

Adapter cable for sync signals CAB-ADSync-BNC-1
 BNC/SMA (3x) to line scan camera synchronization cable SK9016/SK9024/SK9026.

Shielded cable, length 0.25 m

Connectors:
 1x Phoenix 4-pin connector
 3x SMA plug (Line Sync A, Line Sync B, Frame Sync)
 3x adapter SMA socket (outside thread) to BNC-plug

CAB-ADSync-BNC-1 **Order Code**

M2 Mounting Bracket SK5105-L
 For cameras with lens thread size M45x0.75

SK5105-L with clamping set SK5101#

MC2 Clamping Set SK5101
 Clamp SK5101 (set of 4 pcs.)
 Allen screw DIN 912-M3x12

M4 Mounting System SK5105-2L

SK5105-2L

For camera configurations with tube length > 55 mm using extension rings **ZR-L**

FA3 Focus adapter L-Mount (M39x1/26" Leica)
 any rotation angle adjustable (V-groove)
 attachment thread M45x0.75, male

FA22R-45 **Order Code**
 length L: 22 ... 32 mm

FA22RL-45 **Order Code**
 length L: 29 ... 38 mm

A3 Lens Adapter F-Mount
 for line scan cameras with case type **Axx** or **BGx**.

AOC-F-... **Order Code**

Attachment thread:
 45 = M45x0.75
 40 = M40x0.75
 32 = M32x0.75
 C = C-Mount 1"-32-TP

ZR-L Extension rings M45x0.75
 attachment threads M45x0.75 male/female

ZR-L.25 **Order Code**

└ 15 = Length 15 mm
 25 = Length 25 mm
 60 = Length 60 mm
 87 = Length 87 mm