

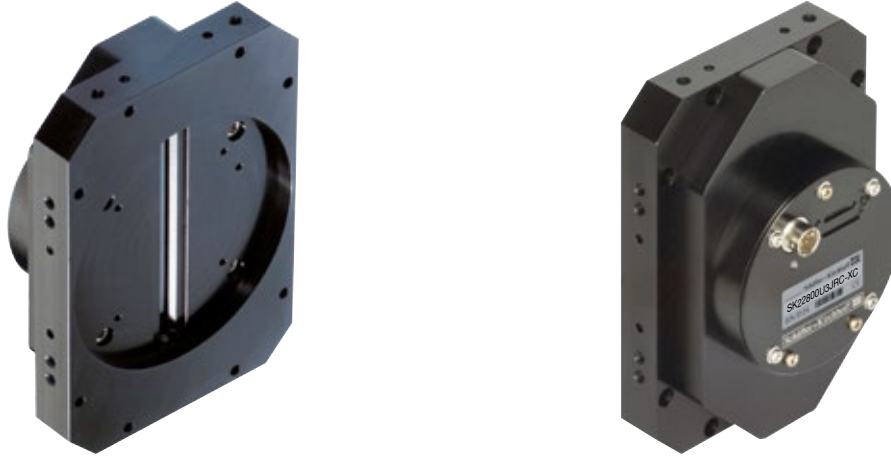
## Line Scan Camera SK22800U3JRC-XC

CCD



USB 3.0

Color line scan camera (Triple-Line) with 3 x 7600 RGB pixels, 6.17 kHz maximum line rate, high resolution.



### ■ Sensor Characteristics

Sensor type:	CCD, Color
Pixel number:	3 x 7600
Pixel size:	9.325 x 9.325 $\mu\text{m}^2$
Active sensor length:	70.87 mm
Pixel frequency:	150 / 60 MHz
Max. line frequency:	6.17 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	350 - 680 nm
Dynamic range:	1:1000 (rms)
Line spacing (RGB):	9.325 $\mu\text{m}$
Line color sequence:	blue (B), green (G), red (R)

### ■ Mechanical data

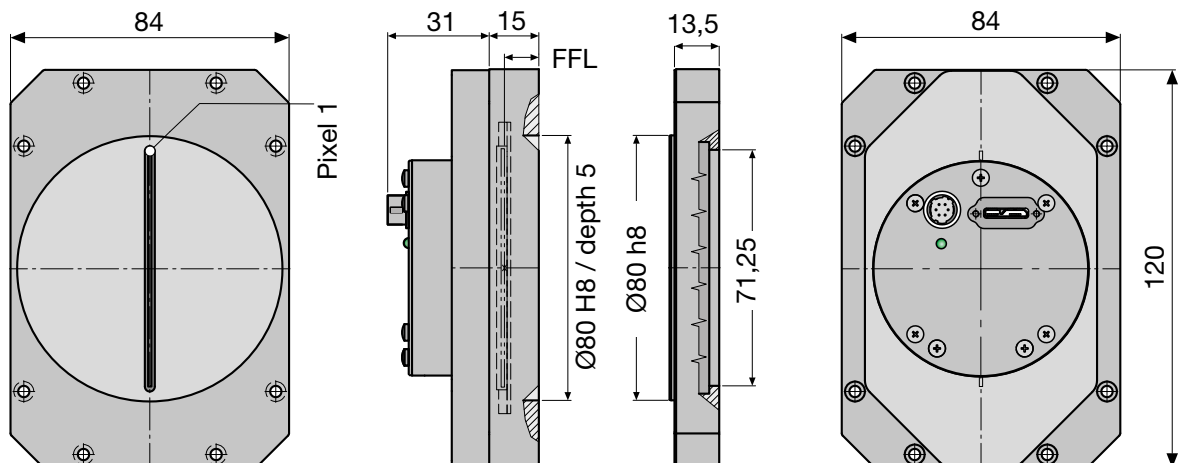
Case type:	FT7
Size:	84 mm x 120 mm x 59.5 mm
Mass:	0.4 kg
Lens mount:	$\text{Ø}80 \text{ H}8$
Flange focal length (FFL):	10.16 mm

### ■ Functioning Features


Anti blooming:	-
Integration control:	-
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:	USB 3.0
Type:	$\mu\text{B}$ , threaded
Video signals:	color 3*8 Bit digital
Power supply:	5VDC, 7.3 W
External synchronization:	TTL
(for power supply and external synchronization)	Hirose 10A, 6-pin, male



## Software



**Software**


**SK91USB3-WIN** Order Code

SDK from Schäfter + Kirchhoff including the **SKLineScan** operating program, as well as API, C++ class library and examples.

Operating systems:  
Windows 7 / 8.1 / 10 - x64 and x86

**SK91USB3-LV VI** Order Code

VI-Library for LabVIEW®, requires **SK91USB3-WIN**




**Software**

**SK91USB3-LX** Order Code

SDK from Schäfter + Kirchhoff including the **SKLineScan** operating program, as well as libraries and examples.

Operating systems:  
Linux kernel 3.13 or higher

## Accessories




**USB 3.0 cable SK9020.x**

Camera connector: USB 3.0 plug, type micro-B, with safety lock screws

PC connector: USB 3.0 plug, type A (also fits into a USB 2.0 type A socket)

**SK9020.x** Order Code

└── 3 = 3 m cable length (standard)  
    5 = 5 m cable length



**Power supply unit PS051515**

Input: 100-240 VAC, 0.8 A, 50/60 Hz  
IEC 60320 C14 coupler (for IEC C13 power cord)

Output: +5VDC, 2.5 A / +15VDC, 0.5 A / -15VDC, 0.3 A


Cable length: 1 m, with Lumberg connector KV60, female 6-pin

**PS051515** Order Code

**Power cord IEC 60320 C13, 1.5 m, 10 A, 250 VAC**

**PC150DE** Order Code

└── DE = Europe / US = USA, Canada, Japan /  
    UK = United Kingdom




**USB 3.0 active extension cable USB3.EXT.AA10**

External power supply +5VDC, length 10 m

Connectors:  
1x socket USB3.0 socket, type A,  
1x plug Power in, 5VDC,  
1x plug USB3.0, type A (also fits a USB2.0 type A socket)

**USB3.EXT.AA10** Order Code




**Combined Synchronization and Power Cable SK9016.1.5**

Applicable when a power supply in addition to the USB interface is required. Shielded cable, length 1.5 m.

Connectors: Hirose plug HR10A, female 6-pin, (camera side), Lumberg SV60, male 6-pin connector (for supply voltage), Phoenix 6-pin connector incl. terminal block (for synchronization signals)

**SK9016.1.5** Order Code




**USB 3.0 active extension cable USB3.EXT.A2Ax...**

Hybrid cable (copper/fiber), power supply by another USB-connection, cable length up to 100 m on request.

Connectors:  
USB3.0 plug and socket, with locking screws

**USB3.EXT.A2Ax** Order Code

└── 20 = 20 m cable length  
    30 = 30 m  
    50 = 50 m  
    other lengths up to 100 m 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 threading) to BNC-plug

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



**Focus Adapter FA26-Sx**

High-precision adapter with linear tracking rods for precise travel of the focussing encasement and for locking focus position. Focussing range 29 mm, 1 turn of the focussing ring corresponds to 10 mm. Screws for focus locking.

**FA26-Sx** Order Code

└── 45 = thread M45x0.75  
    length 40.5 ... 69.5 mm

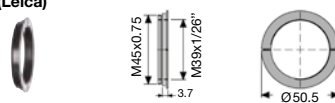
    55 = thread M55x0.75  
    length 51 ... 80 mm

**Lens Adapters and Extension Rings M45x0.75**

**Lens Adapter M45x0.75 to M39x1/26 (Leica)**

Order Code  
**M39-45**


length L=3.7 mm



**Adapter M45 x 0.75 46 mm to AM43**

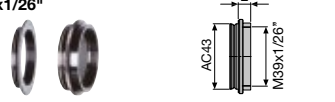
Order Code  
**AM43-M45-S** L=20 mm  
**AM43-M45** L=35 mm

The AM43-M45 accepts the V-groove lens adapter M39x26G-AC43.



**Lens Adapter V-Groove AC43 to M39x1/26"**

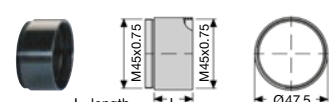
Order Code  
**M39x26G-AC43-S** L=1.5 mm  
**M39x26-AC43** L=8.2 mm



**Extension Ring M45x0.75**

**ZR-L...** Order Code

15 = length 15 mm  
25 = length 25 mm  
60 = length 60 mm  
87 = length 87 mm

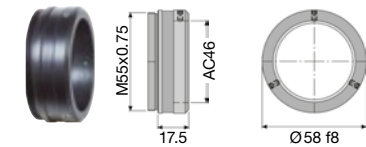


**Lens Adapters and Extension Rings M55x0.75**

**Lens adapter 46 mm V-groove - M55 x 0.75**  
for macro lens inspec.x L5.6/105

**AC46-55** Order Code

The Adapter AC46-55 adds 17.5 mm to the optical tube length. It accepts the AC46 V-groove of the Inspec.x macro lenses.



**Extension Ring M55x0.75**

**ZR55-...** Order Code

15 = length 15 mm  
25 = length 25 mm  
60 = length 60 mm

