> SW-2000M-CL-80

Monochrome CMOS line scan camera





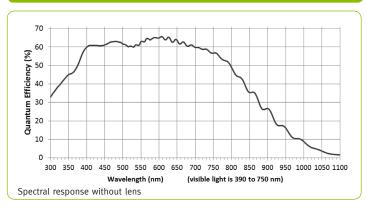


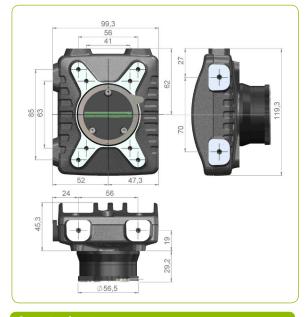
- Monochrome CMOS line scan camera with Camera Link output
- Large 20 μm square pixels for high line rates with less light
- Resolution: 2048 pixels
- Maximum scan rate: 80,000 lines per second
- Selectable sensor mode: high responsivity or high dynamic range
- 8/10/12-bit output via Camera Link Base configuration
- Selectable pixel clock rate
- Single, dual, and triple data formats
- DSNU correction as factory default
- Flat field correction (FFC)
- ROI and binning modes
- Normal and reversed output
- Test pattern generator for set-up and troubleshooting
- Ethernet port for control and monitoring, FW updates, and download of files from camera
- Short ASCII commands for set-up via Camera Link or Ethernet port using the Telnet protocol -Windows user interface
- JAI SDK and GenICam compliant



Specifications	
Conning quater	CMOS line concer with internal clock
Scanning system Pixel clock	CMOS line sensor with internal clock
	20 MHz to 85 MHz adjustable
Sensor resolution	2048 pixels
Cell size	20.0 μm (h) x 20.0 μm (v)
Imager length	40.96 mm
Line scan period	12.5 μs to 0.1 s
Line rate	10 Hz to 80 kHz
Read-out modes	Camera Link Base configuration
	8, 10 or 12 bits x1 8, 10 or 12 bits x2
	8 bits x3
Quantum well size	60 or 360 ke ⁻
Responsivity	480 DN/nJ/cm²
	(DN as 12-bits, small well, gain = 1x, λ = 625 nm)
	@ 60 kHz
Maximum SNR	55 dB (large well, EMVA 1288) @ 60 kHz
Temporal dark noise	1.9 DN (DN as 12-bits, large well, gain=1x)
Dynamic range	66dB
Analog gain	1x, 2x, 6x or 12x
Digital gain	0.1X to 32X
Operating modes	External (external trigger/shutter), Internal (internal trigger/shutter), Mixed (external trigger, internal shutter) Pulse width control (external trigger/shutter)
Programmable exposure	2 µs to 0.1 s (internal shutter)
Camera control	Camera Link or 10/100 Mbps Ethernet
	CL baud rates: 9600, 19200, 38400, 57600, or 115200 bps
Lens mount	Nikon F-mount
Lens protrusion	27 mm, max.
Flange back distance	46.5 mm
Input window	1 mm BK7 glass, AR coated
Sensor alignment	± 0.2 mm (± 0.1 mm typical)
Operating temperature	+5°C to +50°C
Storage temperature	-10°C to +60°C
Humidity	5 - 80% relative, non-condensing
Vibration	3G (IEC 60068-2-6)
Shock	25G (IEC 60068-2-27)
Regulations	EMC emissions: EN 61000-6-4.
	EMC immunity: EN 61000-6-2. FFC part 15, subpart B
Power	12V to 26V DC, 5W, max.
Dimensions (H x W x L)	99.3 mm x 119.3 mm x 45.3 mm
Weight	620 g
	·

Spectral Response





Connector pin-out

DC In



3-pin M8 male connector (viewed looking toward camera)

Connector pin-out

- +12V to +24V DC input 1
 - GND (pwr supply negative) CHGND (chassis ground)

Ordering Information

SW-2000M-CL-80 Monochrome camera with Camera Link 80 kHz



Europe, Middle East & Africa Phone +45 4457 8888 Fax +45 4491 8880

Phone +81 45 440 0154 Fax +81 45 440 0166

Phone (Toll-Free) 1 800 445 5444 Phone +1 408 383 0300

