

❖ **SW-4000Q-CXP2A**
❖ **SW-8000Q-CXP2A**
4CMOS prism line scan camera

■ 4096 pixels x 4CMOS ■ 146 kHz
■ 8192 pixels x 4CMOS ■ 73 kHz **Sweep+ Series** 

CoaXPress[®]

Preliminary Version



- **High resolution prism-based 4CMOS camera**
- **Prism technology for superior color fidelity and accurate visible/NIR channel registration**
- **True RGB color with no interpolation**
- **Max line rates (Full ROI): 4000Q: 146 kHz; 8000Q: 73 kHz**
- **Pixel Size: 4000Q: 7.5 μ m x 7.5 μ m, 7.5 μ m x 10.5 μ m
8000Q: 3.75 μ m x 5.78 μ m**
- **CoaXPress 2.0 (CXP-12) with all standard functionalities including trigger over CoaXPress**
- **Individual gain and exposure control for R, G, B and NIR channels**
- **PRNU, DSNU, shading correction, chromatic aberration correction**
- **ROI, binning, color space conversion**
- **Supports direct connection to rotary encoders**
- **Large variety of trigger options**
- **Supports CXP Link Sharing**
- **Excellent shock and vibration resistance**
- **Lens mount: F or M52**
- **Accepts power over CoaXPress interface or via separate 12-pin connector**

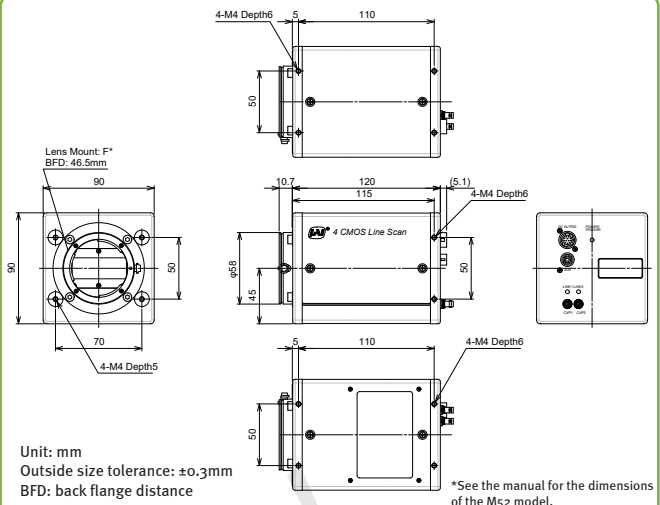


Specifications for SW-4000Q-CXP2A / SW-8000Q-CXP2A

Sweep+ Series

Specifications	SW-4000Q-CXP2A / SW-8000Q-CXP2A
Sensor	4 high speed CMOS line sensors, prism-mounted
Active pixels	4000Q: 4096 x 4 (R, G, B, NIR) 8000Q: 8192 x 4 (R, G, B, NIR)
Pixel size	4000Q: 7.5 μm x 7.5 μm ; 7.5 μm x 10.5 μm 8000Q: 3.75 μm x 5.78 μm
Line rate	4000Q: 146 kHz (RGBa8, Full ROI) 8000Q: 73 kHz (RGBa8, Full ROI)
Sensor width	30.72 mm
Interface	CoaXpress v2.0 (Micro-BNC x2) CXP12_x2, CXP6_x2, CXP3_x2, CXP12_x1, CXP6_x1, CXP3_x1
Video output	RGBa8, RGBa10 (visible + NIR) RGB8, RGB10 (visible) Mono8, Mono10 (NIR)
Trigger input	TTL In (4), Opto In, CXP In, Pulse Generator (4), Logic Block (4), User Output (4), EncoderTrigger
Output	TTL out (4)
Exposure Mode / Time	Off (free-run), Timed, TriggerWidth Timed (setting value): 3.0 μs to 15.149ms TriggerWidth: 1.8 μs to 1s
Shading correction	FlatShading, ColorShading
Gain	Analog Base Gain: 0dB, 6dB, 12dB (4000Q only) Digital Master: 0 to +30dB, R/B: -4 to +12dB Digital Individual: 0 to +36dB or -4 to 12dB
White balance	Off / Once / Exposure Once Preset 5000K, 6500K, 7500K
Image processing	DSNU, PRNU, horizontal mirroring, color space conversion, LUT (257 point), Gamma (1.0 to 0.45, 9 steps)
Chromatic aberration correction	Mode: Symmetric / Asymmetric Method: Simple / Linear Spline / Custom
Encoder control	Trigger option: EncoderDivider, EdgeDetection Output mode: Motion, Position Up, Position Down
Lens mount	F / M52 (BFD: 46.5mm)
Operating temp. (ambient)	-5°C to +45°C (20 to 80% non-condensing)
Storage temp. (ambient)	-25°C to +60°C (20 to 80% non condensing)
Vibration	3G (20 Hz to 200 Hz, XYZ directions)
Shock	50G
Regulations	EN55032:2015/A11:2020, EN55035:2017 (CISPR35:2016), FCC Part15 Subpart A, KC, RoHS
Power (Input)	12-pin: 10.8 to 26.4V DC PoCXP: 18.5 to 26.0V DC
Dimensions (H x W x D)	90 mm x 90 mm x 120 mm (excluding connectors)
Weight	880 g

Dimensions (F-Mount Model)



Connector pin-out

DC In / Trigger (12-pin)

Pin	
1	Ground
2	DC in +10.8V to +26.4V
3	Ground
4	TTL in 4
5	Opto in 1-
6	Opto in 1+
7	TTL out 4
8	NC
9	TTL out 1
10	TTL in 1
11	DC in +10.8V to +26.4V
12	Ground

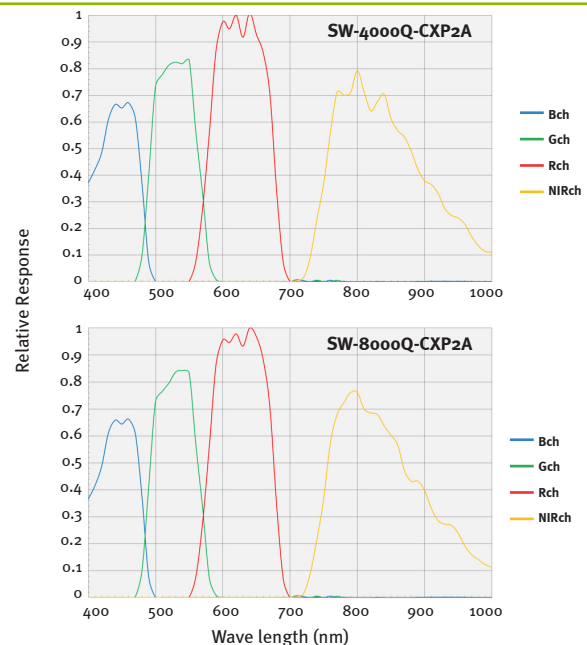
Equivalent to
HR10A-10R-12PB(71)

AUX (6-pin)

Pin	
1	TTL in 3
2	TTL out 2
3	TTL in 2
4	NC
5	TTL out 3
6	Ground

Equivalent to
HR10A-7R-6SB

Spectral Response



Scan for contact information
Explore more at www.jai.com



See the possibilities