

3.3.1.5.4 900-1700nm - InGaAs NIR Cameras

SP1203 high resolution, SP1201 low resolution and XC-130

Features

- NIR performance
- Resolution:
 - VGA: SP1203
 - QVGA: SP1201, XC-130
- Exclusive Ultracal for ISO conforming accuracy
- Available with BeamGage software

SP1203/SP1201



XC-130



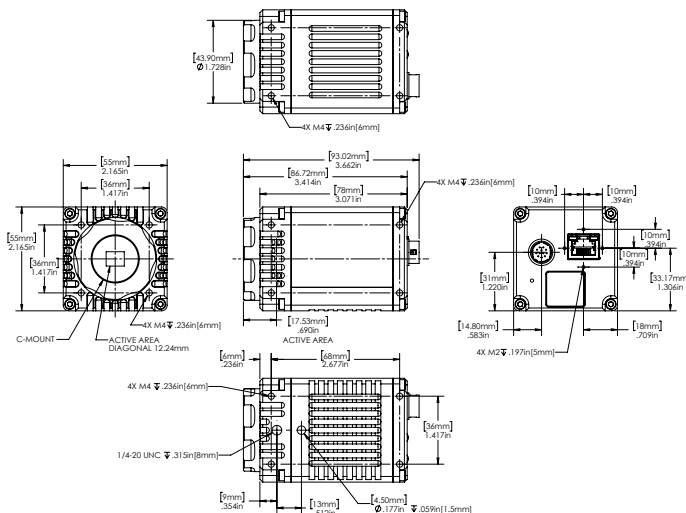
GigE / USB Cameras for use with Laptop or Desktop PC

Item	Specification		
Model	SP1203	SP1201	XC-130
Application	NIR wavelengths, high resolution, ROI and binning	NIR wavelengths, ROI and binning	NIR wavelengths, ROI and binning
Spectral response	900-1700nm	900-1700nm	900-1700nm
Element pitch	15µm square	30µm square	30µm square
Number of elements	640 x 512 (VGA)	320 x 256 (QVGA)	320 x 256 (QVGA)
Area	9.6 x 7.6mm	9.6 x 7.6mm	9.6 x 7.6mm
Beam size	150µm-7.4mm	300µm-7.4mm	300µm-7.4mm
Lens	C-mount, (Optional)	C-mount, (Optional)	C-mount, (Optional)
Minimum system dynamic range	68dB	59dB	low gain 68dB, high gain 60dB
Saturation Intensity ⁽¹⁾	12.6 µW/cm ² @ 1064nm 8.9 µW/cm ² @ 1550nm	0.4 µW/cm ² @ 1064nm 0.2 µW/cm ² @ 1550nm	1.3 µW/cm ² @ 1550 nm
Frame rate ⁽²⁾	60 Hz	60 Hz	100 Hz ⁽³⁾
Non-uniformity correction (NUC)	Automatic NUC table selection	Automatic NUC table selection	2-Point correction plus bad pixel correction, NUC files provided
Snap-shot mode	Via external TTL trigger, cable provided	Via external TTL trigger, cable provided	Via external TTL trigger, cable provided
Compatible light sources	CW, Pulsed	CW, Pulsed	CW, Pulsed
Trigger	Supports both Trigger and strobe out	Supports both Trigger and strobe out	Supports both Trigger and strobe out
Photodiode trigger	InGaAs response: SP90409	InGaAs response: SP90409	InGaAs response: SP90409
Exposure control	10µs-50ms	150µs-10ms	1us to 400 sec in Low Gain mode
Imager Cooling	Integrated Thermo-Electric Sensor Cooling (TEC)	Integrated Thermo-Electric Sensor Cooling (TEC)	Thermoelectric cooler plus forced convection
Ambient operating temperature	-20° to 55° C	-20° to 55° C	0 - 50° C
Dimensions, mm, HxWxD	55 x 55 x 78 mm	55 x 55 x 78 mm	111 x 87 x 107 mm
Weight	370 g (0.8 lbs)	370 g (0.8 lbs)	approx. 1.8 kg
Software supported	BeamGage PRO	BeamGage PRO	BeamGage PRO
PC interface	GigE (POE) ⁽⁴⁾	GigE (POE) ⁽⁴⁾	USB 2.0, special cable provided

Notes:

- (1) Camera set to full resolution and 10 ms exposure time, CW source.
- (2) Highly dependent on PC processor and graphics adapter performance.
- (3) The uncorrected rate, final corrected rate will be less.
- (4) Supplied with USB 3.0 to Gigabit Ethernet Adaptor.

SP1203/SP1201



XC-130

