

3.3.4.3.2 GigE InGaAs NIR Camera

SP1203 high resolution, SP1201 low resolution

Features

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

SP1203/SP1201



Model	SP1203	SP1201		
Application	NIR wavelengths, high resolution, ROI and binning	NIR wavelengths, ROI and binning		
Wavelengths	900-1700nm	900-1700nm		
Active area	9.6 x 7.6mm	9.6 x 7.6mm		
Pixel spacing	15µm square	30µm square		
Beam sizes ⁽¹⁾	150µm-7.4mm	300µm-7.4mm		
Number of effective pixels	640 x 512 (VGA)	320 x 256 (QVGA)		
CCD recess	C-mount, (Optional)	C-mount, (Optional)		
Dynamic range	68dB	59dB		
Saturation Intensity ⁽²⁾	12.6 µW/cm² @ 1064nm 8.9 µW/cm² @ 1550nm	0.4 µW/cm² @ 1064nm 0.2 µW/cm² @ 1550nm		
Frame rate ⁽³⁾	60 Hz	60 Hz		
Non-uniformity correction (NUC)	Automatic NUC table selection	Automatic NUC table selection		
Snap-shot mode	Via external TTL trigger, cable provided	Via external TTL trigger, cable provided		
Compatible light sources	CW, Pulsed	CW, Pulsed		
Trigger	Supports both Trigger and strobe out	Supports both Trigger and strobe out		
Photodiode trigger (Optional) ⁽⁴⁾	InGaAs response: SP90409	InGaAs response: SP90409		
Exposure control	10µs-50ms	150µs-10ms		
Imager Cooling	Integrated Thermo-Electric Sensor Cooling (TEC)	Integrated Thermo-Electric Sensor Cooling (TEC)		
Ambient operating temperature	10°-40° C	10°-40° C		
Dimensions	55mm x 55mm x 78mm	55mm x 55mm x 78mm		
Weight	370 g (0.8 lbs)	370 g (0.8 lbs)		
PC interface	GigE (POE)	GigE (POE)		
Compliance	CE, UKCA, China RoHS			
Ordering Information				
Supported software	Item	P/N	Item	P/N
BeamGage Professional	BGP-GigE-SP1203	SP90524	BGP-GigE-SP1201	SP90523
	SP1203 Kit ⁽⁵⁾	SP90536	SP1201 Kit ⁽⁵⁾	SP90535
BeamGage Professional (for USA only)	BGP-GigE-SP1203	SP90548	BGP-GigE-SP1201	SP90547

Notes: (1) The maximal beam size refers to "Flat-top" laser beams. For Gaussian beams, reduce maximum beam size by 1/3.
(2) Camera set to full resolution and 10 ms exposure time, CW source.
(3) Highly dependent on PC processor and graphics adapter performance.
(4) For more information please see "Optical Camera Trigger" catalog page.
(5) Contains BeamGage Professional License, USB 3.0 cable to Gigabit Ethernet Adaptor, CAT6 Ethernet Cable, Power with Trigger cable and 3 ND filters.

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