3.3.4.3 900-1700nm Camera

3.3.4.3.1 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/cm^2 @ 1064nm 8.9 µW/cm^2 @ 1550nm	0.4 µW/cm^2 @ 1064nm 0.2 µW/cm^2 @ 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	10º-40º C	10º-40º 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.

SP1203/SP1201