



3.3.4.2.1 Phosphor Coated CCD Cameras For NIR Response

Features

- 1440-1605nm Wavelengths
- NIR Telecom mode field analysis
- NIR Laser beam analysis

Available Models

- USB models: SP920s-1550
- Large Format: LT665-1550



SP920s-1550

LT665-1550

Model	SP920s-1550		LT665-1550		
Application	NIR wavelengths, 1/1.8" format,		NIR wavelengths, 1" format,		
	low resolution		higher resolution		
Wavelengths	1440 - 1605nm		1440 - 1605nm	1440 - 1605nm	
Active area	7.1mm x 5.3mm		12.5mm x 10mm		
Beam sizes	600µm - 5.3mm		600µm - 9.9mm	600µm - 9.9mm	
Pixel spacing (1)	4.4µm x 4.4µm		4.54µm x 4.54µm		
Number of effective pixels	1624 x 1224		2752 x 2192		
Dynamic range (2)	~30 dB		~30 dB		
Linearity with power	±5%		±5%		
Accuracy of beam width	±5%		±5%		
Frame rates in 12 bit mode (3)	15 fps at full resolution		27 fps at full resolution		
Shutter duration	70µs to multiple frames		31µs to multiple frames		
Gain control	0 dB to 24 dB		0.8 dB to 56 dB		
Trigger	Supports both trigger and strobe out		Supports both trigger and strobe out		
Photodiode trigger (Optional) ⁽⁴⁾	InGaAs response: SP90409		InGaAs response: SP90409		
Saturation intensity	7mW/cm ² at 1550nm				
Lowest measurable signal	50µW/cm ²				
Damage threshold	50W/cm ² / 1J/cm ² with all filters installed for < 100ns pulse width ⁽⁵⁾				
Ambient operating temperature	0 - 50° C		0 - 50° C. Recommended to connect to heat sink		
Dimensions	29mm x 29mm x 29.5mm		43mm x 43mm x 65mm		
CCD recess	4.5mm		17.5mm		
Operation mode	Interline transfer CCD		Quad Tap interline transfer CCD		
PC interface	USB 3.0		USB 3.0		
OS supported	Windows 7 (64) and Windows 10				
Compliance	CE, UKCA, China RoHS				
Ordering Information					
Supported software	Item	P/N	Item	P/N	
BeamGage Professional	BGP-USB3-SP920s-1550	SP90562 ⁽⁶⁾	BGP-USB3-LT665-1550	SP90385 (7)	
BeamGage Standard	BGS-USB3-SP920s-1550	SP90561 (6)	BGS-USB3-LT665-1550	SP90384 (7)	

dynamic range by up to 16x = +24 dB. (3) In normal (non-shuttered) camera operation, the frame rate is the fastest rate at which the laser may pulse and the camera can still separate one pulse from the next. With electronic shutter operation, higher rate laser pulses can be split out by matching the laser repetition to the shutter speed. (4) For more information please see "Optical Camera Trigger" catalog page. (5) This is the damage threshold of the filter glass of the filters. Assuming all filters mounted with ND1 (red housing) filter in the front. Distortion of the beam may occur with average power densities of 5W/cm² for beam size 5mm, 10W/cm² for 2mm beam and >30W/cm² for 1mm beam. (6) Comes with USB 3.0 cable, Trigger cable and 3 ND filters.

SP920s-1550 LT665 - 1550 1/4-20 -GPIO CONNECTOR STATUS LED 29. 6.0 20 USB3 CONNEC 5.5 4.5 ACTIVE AREA CS-MOUNT -ACTIVE AREA: 7.1 X 5.4 2X M2X0.4√2 1.5



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