

Specifications

5.1.4 In-Sight 5600 Series Vision Sensor Specifications

Table 5-6: 5603 and 5600 Sensor Specifications

Specification		In-Sight 5603	In-Sight 5600	
Performance Class			➔	
Minimum Firmware Requirement		In-Sight version 3.4.0		
Memory	Job/Program	64MB non-volatile flash memory; unlimited storage via remote network device.		
	Image Processing	128MB		
Image	Sensor	1/1.8-inch CCD	1/3-inch CCD	
	Optical Properties	8.923mm diagonal, 4.4 x 4.4µm sq. pixels	6mm diagonal, 7.4 x 7.4µm sq. pixels	
	Resolution (pixels)	1600 x 1200	640 x 480	
	Electronic Shutter Speed	27µs to 1000ms	16µs to 1000ms	
	Acquisition ¹	Rapid reset, progressive scan, full-frame integration.		
		256 grey levels (8 bits/pixel)		
		Gain/Offset controlled by software.		
	13 full frames per second.	42 full frames per second.		
Lens Type	C-mount			
Image Repeatability ²	±0.127mm (0.005in), (both x and y) from lens C-mount axis to center of imager.			
I/O	Trigger	1 opto-isolated, acquisition trigger input.		
		Remote software commands via Ethernet and RS-232.		
	Discrete Inputs	8 inputs available, using the optional 1450/1460 I/O Expansion Module. Unlimited inputs when using an Ethernet I/O system.		
	Discrete Outputs	2 built-in, high-speed outputs. 8 additional outputs available, using the optional 1450/1460 I/O Expansion Module. Unlimited outputs when using an Ethernet I/O system.		
Status LEDs	Power, Network Status, Network Traffic, 2 user configurable.			
Communications	Network	1 Ethernet port, 10/100 BaseT, TCP/IP protocol. Supports DHCP (factory default) or static IP address.		
	Serial	RS-232C (4800 to 115,200 baud rates; 1200 to 115,200 baud rates when connected to a 1450/1460 I/O Expansion Module).		
Power	24VDC ±10%, 600mA maximum.	24VDC ±10%, 500mA maximum.		
Mechanical	Material	Die-cast aluminum housing.		
	Finish	Painted/Powder coat (back plate).		
	Mounting	Eight M4 threaded mounting holes (four front and four back).		
	Dimensions	99.9mm (3.93in) x 124.1mm (4.88in) x 61.4mm (2.42in) with Lens Cover installed.		
		59.4mm (2.34in) x 124.1mm (4.88in) x 61.4mm (2.42in) without Lens Cover installed.		
Weight	463 g (16.3 oz.) Lens cover installed, without lens.	409 g (14.4 oz.) Lens cover installed, without lens.		