

# IN-SIGHT MODEL COMPARISON

## General-Purpose Vision Sensors



PRODUCT ATTRIBUTE		5100	1000	5400	4000
Memory	Firmware & User	16MB	4MB	16MB	8MB
Camera	Resolution	640 x 480	640 x 480	640 x 480	640 x 480
	Acquisition Rate (Max.)	60fps	30fps	60fps	38fps
	Partial Image Acquisition	Yes	No	Yes	No
	Max. Distance (camera to processor)	N/A	N/A	N/A	N/A
	NEMA/IP Ratings (camera)	NEMA 6/IP67 <sup>4</sup>	NEMA 4/IP55 <sup>3</sup>	NEMA 6/IP67 <sup>4</sup>	NEMA 4/IP55 <sup>3</sup>
	Max. Operating Temperature	45°C	45°C	45°C	35°C
Display Options	VGA Port	No	No	No	No
	PC (via In-Sight Explorer)	Yes	Yes	Yes	Yes
I/O Options	Trigger	Yes	Yes	Yes	Yes
	Strobe	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
	Integrated # of Outputs	2	2	2	2
	Integrated # of Inputs	1	1	1	1
	I/O Breakout Module (CIO-1350-XX) Support	Yes	Yes	Yes	Yes
	I/O Expansion Module (CIO-1450-XX) Support (adds 8in/8out)	Yes	Yes	Yes	Yes
	I/O Breakout Module (CIO-2350-00) Support (adds 8in/8out)	No	No	No	No
Ethernet I/O Support (up to 512in/ 512out)	Yes	Yes	Yes	Yes	
Communication Options	RS232 Port (w/ Rx/Tx & RTS/CTS)	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>
	RS232 Port (w/ Rx/Tx)	1	1	1	1
	Ethernet Ports	1	1	1	1
Lighting Options	Direct Power	No	No	No	No
Application Development	Control Pad	No	No	No	No
	In-Sight Explorer	Yes	Yes	Yes	Yes
Lens Mount	C or CS <sup>7</sup>	C	C	C	C
Vision Tool Support	PatFind	Yes	Yes	Yes	Yes
	Edge	Yes	Yes	Yes	Yes
	Blob	Yes	Yes	Yes	Yes
	Histogram	Yes	Yes	Yes	Yes
	Image Processing	Yes	Yes	Yes	Yes
	OCV/OCR	Yes	Yes	Yes	Yes
	<b>1D Codes:</b>				
	Code 3 of 9, Code 128, Interleaved 2 of 5,	Yes	Yes	Yes	Yes
	Reduced Space Symbology (RSS),	Yes	Yes	Yes	Yes
	UPC/EAN, PostNet, Planet Code, Pharma Code, UPU-57	Yes	Yes	Yes	Yes
	<b>2D Codes:</b> Data Matrix™, QR Code, PDF-17,	Yes	Yes	Yes	Yes
	Composite Symbology (CS)	Yes	Yes	Yes	Yes
	Color Tools	No	No	No	No

**Notes:**






- 1) Strobe output can also be used as general output for non-strobing applications.
- 2) Strobe outputs and Trigger inputs are located on the processor package (they are in the camera package on the IS2000/3000).
- 3) Requires optional camera enclosure for NEMA-rated protection.

4) Requires lens cover (included) for NEMA-rated protection.

5) When used with I/O Expansion module, PN# CIO-1450-XX.

6) QR and Data Matrix only.

7) Vision sensors with a CS lens mount include a 5mm extension for use with C-mount lenses.

Code Reader	General-Purpose Standalone Vision Sensors			Color	High-resolution	Remote Head
						
1010	3400	3000	2000	1000C	4001	4100
4MB	16MB	4MB	4MB	4MB	8MB	8MB
640 x 480	640 x 480	640 x 480	640 x 480	640 x 480	1024 x 768	640 x 480
30fps	38fps	30fps	30fps	30fps	18fps	38fps
No	Yes	Yes	Yes	No	Yes	Yes
N/A	50 feet	50 feet	50 feet	N/A	N/A	5 meters
NEMA 4/IP55 <sup>3</sup>	NEMA 6/IP67 <sup>3</sup>	NEMA 4/IP55 <sup>3</sup>	NEMA 4/IP55 <sup>3</sup>	NEMA 4/IP55 <sup>3</sup>	NEMA 4/IP55 <sup>3</sup>	NEMA 6/IP67 <sup>3</sup>
45°C	50°C	45°C	45°C	45°C	35°C	50°C
No	Yes	Yes	Yes	No	No	No
Yes	Yes	Yes	No	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>2</sup>
Yes <sup>1</sup>	Yes	Yes	Yes	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1,2</sup>
2	2	2	2	2	2	2
1	2	2	2	1	1	1
Yes	No	No	No	Yes	Yes	Yes
Yes	Yes	No	No	Yes	Yes	Yes
No	No	Yes	Yes	No	No	No
Yes	Yes	Yes	No	Yes	Yes	Yes
1 <sup>5</sup>	1	1	2	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>
1	0	0	0	1	1	1
1	1	1	0	1	1	1
No	Yes	Yes	Yes	No	No	No
No	Yes	Yes	Yes	No	No	No
Yes	Yes	Yes	No	Yes	Yes	Yes
C	CS	C	C	C	C	CS
No	Yes	Yes	Yes	Yes	Yes	Yes
No	Yes	Yes	Yes	Yes	Yes	Yes
No	Yes	Yes	Yes	Yes	Yes	Yes
No	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes
No	Yes	Yes	No	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	No	No	Yes	Yes	Yes
Yes	Yes	Yes <sup>6</sup>	Yes <sup>6</sup>	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes
No	No	No	No	Yes	No	No