

# DVT Model Comparison

## General Purpose Vision Sensors



		STANDARD RESOLUTION (INCREASING ORDER OF PERFORMANCE)				HIGH RESOLUTION
		515	535	545	550	554
Performance Multiplier	Average overall performance vs. a Model 515	1X	1.5X	4X	6X	6X
Memory	Firmware & Job Storage	16MB	16MB	16MB	16MB	16MB
Camera	Resolution	640 x 480	640 x 480	640 x 480	640 x 480	1280 x 1024
	Imager Size	1/3-inch CMOS	1/3-inch CCD	1/3-inch CCD	1/3-inch CCD	1/2-inch CCD
	Color	No	No	No	No	No
	Acquisition Rate (frames per second)	60fps	60fps	60fps	75fps	8fps
	Partial Image Acquisition	Yes	Yes	Yes	Yes	Yes
	Protection Rating	IP51	IP51	IP51	IP51	IP51
Display Options	SmartLink to VGA	Yes	Yes	Yes	Yes	Yes
I/O Options	Trigger/No. of High-speed Outputs	8	8	8	8	8
	I/O Breakout/Expansion Modules	Yes	Yes	Yes	Yes	Yes
	Ethernet I/O Support (up to 512in/ 512out)	Yes	Yes	Yes	Yes	Yes
Communication Options	Ethernet & RS232 (with optional Ethernet to serial converter CON-ETS)	Yes	Yes	Yes	Yes	Yes
Lighting	Integrated LED Lighting Available	Yes	Yes	Yes	Yes	Yes
Application Development	Intellect 1.3 or higher required	Yes	Yes	Yes	No	No
	Compatible with FrameWork	Yes	Yes	Yes	Yes	Yes
Lens Mount	C or CS	Both	Both	Both	Both	Both
Vision Tool Support	Preprocessing	Yes	Yes	Yes	Yes	Yes
	Positioning	Yes	Yes	Yes	Yes	Yes
	Counting	Yes	Yes	Yes	Yes	Yes
	Measurement	Yes	Yes	Yes	Yes	Yes
	Identification (modeling)	Yes	Yes	Yes	Yes	Yes
	Readers (1D, 2D, OCR/OCV) <sup>1</sup>	No	Yes	Yes	Yes	Yes
	Flaw Detection	Yes	Yes	Yes	Yes	Yes
	Script	Yes	Yes	Yes	Yes	Yes
	Application Specific	Yes	Yes	Yes	Yes	Yes
Power Consumption	Voltage Requirement	24VDC+/-10%	24VDC+/-10%	24VDC+/-10%	24VDC+/-10%	24VDC+/-10%
	Maximum Current (Not including lighting)	300mA	300mA	300mA	300mA	300mA
Max Oper.Temp.	Camera	45 deg C	45 deg C	45 deg C	45 deg C	45 deg C
Approvals	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS	CE <sup>2</sup>	CE <sup>2</sup>

Notes:

- 1) 2D codes include: Data Matrix, Snowflake, Rectangular code 1D Stacked codes include: Interleaved 2 of 5, Code 39, Code 93, Codabar, PharmaCode, BC412, UPC/EAN & Composite, RSS Limited, 14, Expanded, Composites A,B,C, Code 128 Composite, Postnet and Planet Code, PDF417, Micro PDF and PDF417 truncated
- 2) RoHS planned availability March 2007
- 3) This model requires Intellect 1.4 or higher

## Color Vision Sensors



		STANDARD RESOLUTION (INCREASING ORDER OF PERFORMANCE)		HIGH RESOLUTION	ID READER	LINE SCAN
		535C	545C	554C	XS	LS
Performance Multiplier	Average overall performance vs. a Model 535C	1X	4X	4X	6X	6X
Memory	Firmware & Job Storage	16MB	16MB	16MB	16MB	16MB
Camera	Resolution	640 x 480	640 x 480	1280 x 1024	640 x 480	2048 x 1
	Imager Size	1/3-inch CCD	1/4-inch CCD	1/2-inch CCD	1/3-inch CCD	1-inch CMOS
	Color	Yes	Yes	Yes	No	No
	Acquisition Rate (frames per second)	23fps	30fps	8fps	75fps	18k line per sec
	Partial Image Acquisition	Yes	Yes	Yes	Yes	Yes
	Protection Rating	IP51	IP51	IP51	IP51	IP51
Display Options	SmartLink to VGA	Yes	Yes	Yes	Yes	Yes
I/O Options	Trigger/No. of High-speed Outputs	8	8	8	8	8
	I/O Breakout/Expansion Modules	Yes	Yes	Yes	Yes	Yes
	Ethernet I/O Support (up to 512in/ 512out)	Yes	Yes	Yes	Yes	Yes
Communication Options	Ethernet & RS232 (with optional Ethernet to serial converter CON-ETS)	Yes	Yes	Yes	Yes	Yes
Lighting	Integrated LED Lighting Available	Yes	Yes	Yes	Yes	No
Application Development	Intellect 1.3 or higher required	Yes <sup>3</sup>	No	No	No	Required for continuous mode operation
	Compatible with FrameWork	Yes	Yes	Yes	Yes	No
Lens Mount	C or CS	Both	Both	Both	Both	Both
Vision Tool Support	Preprocessing	Yes	Yes	Yes	Yes	Yes
	Positioning	Yes	Yes	Yes	Yes	Yes
	Counting	Yes	Yes	Yes	No	Yes
	Measurement	Yes	Yes	Yes	No	Yes
	Identification (modeling)	Yes	Yes	Yes	No	Yes
	Readers (1D, 2D, OCR/OCV) <sup>1</sup>	Yes	Yes	Yes	Yes	Yes
	Flaw Detection	Yes	Yes	Yes	No	Yes
	Script	Yes	Yes	Yes	Yes	Yes
	Application Specific	Yes	Yes	Yes	No	Yes
Power Consumption	Voltage Requirement	24VDC+/-10%	24VDC+/-10%	24VDC+/-10%	24VDC+/-10%	24VDC+/-10%
	Maximum Current (Not including lighting)	300mA	300mA	300mA	300mA	300mA
Max Oper.Temp.	Camera	45 deg C	45 deg C	45 deg C	45 deg C	45 deg C
Approvals	CE, RoHS	CE, RoHS	CE <sup>2</sup>	CE <sup>2</sup>	CE <sup>2</sup>	CE <sup>2</sup>