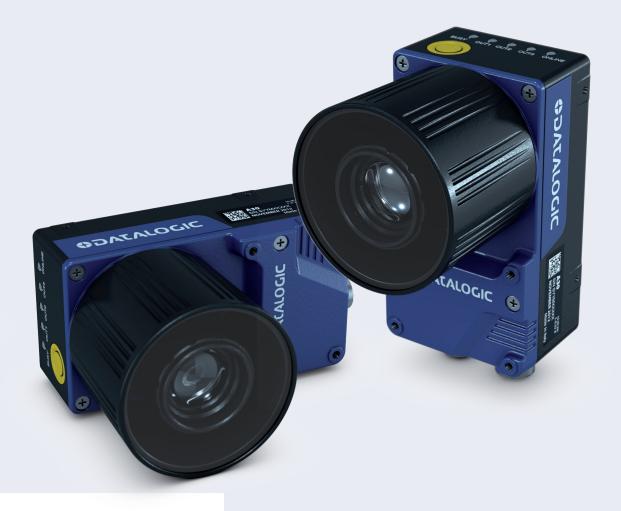
A30 SERIES

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HIGHLIGHTS

- IP67 Rated Enclosure with sealed connectors -No bulky "add on" enclosure required for harsh
- High quality VGA CCD sensor delivering reliable and stable image quality performance
- · Can be run with or without an operator interface - For full turnkey integration capability or standalone use
- Complete Impact software toolset for ultimate programming flexibility - Ability to address any inspection and user interface needs through Impact software
- · Complete communications support, including RS232 Serial, Ethernet and Discrete I/O - For easy data transfer to any industrial platform
- Real-time operating system Offers highly deterministic timing for precise output of inspection results

A20/T2X SMART CAMERAS SERIES

The A30 Series is a stand-alone, general purpose and cost effective Smart Camera that can be installed even in harsh industrial environments thanks to its IP67 rated housing. The A30 Series features a VGA (640x480) CCD imager, built-in discrete I/Os as well as Ethernet and Serial interfaces. Thanks to the ultimate programming flexibility offered by Impact software, the A30 Series represents the answer to every machine vision need.



PRODUCT SPECIFICATIONS

Resolution	640 x 480 CCD		
Pixel size	7.4 x 7.4 um		
Imager size	1/3"		
Lens mount	C-Mount		
Frames/sec	60		
Processor	800 MHz TI Da Vinci		
Housing	Right Angle - IP67		
Housing dimensions maximum (LxWxH)	123 x 65 x 86 mm (4.84 x 2.55 x 3.41 in)		
Dedicated I/O	1 In / 1 Out		
Configurable I/O	1 In / 2 Out		
I/O optically isolated	YES		
External button	YES		
Power requirements	10-30 VDC 1.0 - 0.33 A		
RS-232 serial	YES		
Ethernet	YES		
Storage	256 MB Flash		
RAM	512 MB		
Operating Temperature	0 to 45 °C		
Humidity (non-condensing)	0 to 90%		
Certifications	CE, CSA		

APPLICATIONS

Surface Flaw Detection

The A30 smart camera is perfectly suited to identify flaws such as scratches, porosity and other defects in the surfaces of machined materials or other finished goods. The system will identify and quantify the size, location and number of defects allowing for easy defect sorting and analysis. Additionally, the integrated high speed I/O will allow for fast rejection or signaling of inspection results to reject mechanisms or other devices such as PLCs. Viewing images and inspection data, as well as controlling the A30's settings, can be done through Impact's Control Panel Manager software.





Hi-Speed Product locating

With powerful high speed features, that rival more expensive PC based systems, the cost effective A30 is excellent for accurately finding part position



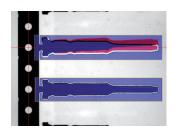




and rotation of product - in mere milliseconds. This capability makes the smart camera perfect for locating moving parts or compensating for movement in manufacturing processes that present paroducts in an inconsistent manner during inspection. This capability is a standard feature of the A30 product and enhances the smart camera's inspection performance.

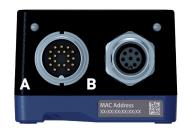
Template Matching

When contoured products, such as stamped connector pins, need inspections for edge variation or surface defects, the A30 can provide reliable testing at speeds up to 60 images per second with template matching. When the system trained on a good or "golden" part, variations found in inspected parts can be quantified for both size and number of defects. Tolerance parameters can then be set to allow small acceptable variations and or a maximum number of found defects in the inspected product. The operator is shown where the defects are found, by highlighted areas surrounding the defect, in the part image.



CONNECTORS

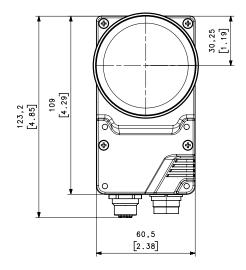


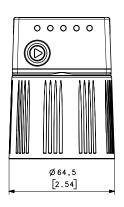


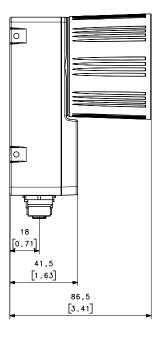
LED Color	Red	Yellow	Yellow	Yellow	Green
LED Function	Busy	Out 1	Out 2	Out 3	On Line

A - M16 Male 19 poles (I/O & Power) **B** - M12 Female 8 poles A-Coded (Gigabit Ethernet)

DIMENSIONS







mm [inch]

MODEL SELECTION AND ORDER INFORMATION

MODEL	ORDER N°
A30, 640 x 480, 60 FPS, 1/3" CCD	959965000

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
OCR Software License	OCR software license	098-0223
CAB-SCS01 Cable, A30/T4x to CBX, 1M	T4x to CBX connection cable - 1 meter	95A906068
CAB-SCS03 Cable, A30/T4x to CBX, 3M	T4x to CBX connection cable - 3 meters	95A906069
CAB-SCS05 Cable, A30/T4x to CBX, 5M	T4x to CBX connection cable - 5 meters	95A906070
CAB-SCS10 Cable, A30/T4x to CBX, 10M	T4x to CBX connection cable - 10 meters	95A906071
CAB-GE01 M12-IP67 TO RJ45 1M	Gig-E ethernet cable - 1 meter	93A050034
CAB-GE03 M12-IP67 TO RJ45 3M	Gig-E ethernet cable - 3 meters	93A050035
CAB-GE05 M12-IP67 TO RJ45 5M	Gig-E ethernet cable - 5 meters	93A050036
CAB-GE10 M12-IP67 TO RJ45 10M	Gig-E ethernet cable - 10 meters	93A051389
I/O Board, A30/T4x, Female DB25, DIN Rail Mountable	I/O Board, DIN Rail Mountable	95A906346
CBX500 CONNECTION BOX MODULAR	CBX500 connection box	93A301068
CBX800 GATEWAY	CBX800 connection box	93A301077
BM300 PROFIBUS MODULE	Profibus module	93ACC1810
BM310 PROFIBUS IP65 MODULE	Profibus module with IP65 connector	93ACC1811
BA100 DIN RAIL ADAPTERS	CBX adapter for DIN rail mounting	93ACC1821
BA200 BOSCH ADAPTERS	CBX adapter for Bosch profile mounting	93ACC1822

