DO-1600 Technical Specifications

General

Camera Type	Single chip CMOS monochrome 1394a Camera • 1024 X 1008 pixels X 256 grey levels (standard)
Camera Module Size (max)	300 mm height X 165 mm diameter
Camera Standoff Height from Disc	18 or 42 mm
Angular Measurement Accuracy	<2 degrees of rotation relative to graphics on disc <0.5 degrees of rotation with Subpixelization Alignment Module
Acceptable Disc Size	80 - 120 mm
Machine Interface	16 digital inputs; 16 digital outputs 0-24VDC - NPN or PNP compatible
Hardware Components	Rack Mount Industrialized computer complete with I/O interface module; monitor; Windows® Operating System Camera module with integrated optics and 2 Solid state light sources for good print and surface defect detection performance
Cable	10 m camera cable – other lengths available Camera cable fully compliant to IEC-61000-4-2 level 4 and IEC-61000-4-4 level 4 electrical immunity standards
Software Modules	• Advanced Pattern Matching Tool • Angular Tracking Module • Automated Teach Function • Production Statistics • Subpixelization Alignment Module (optional)
Cycle Time (standard system)	Up to 130 parts per minute depending on packaging machine cycle time Images are acquired within 100 ms of the "Look Now" signal and processed within 100 ms of acquisition
Number of Camera Heads	One DO500 Camera Head supported per processor Can be combined with Xiris Ident Code reading products to have one ID2500 Ident Code Reader and one DO1600 run on the same processor
Mounting	Mounting slots extruded on IAD body Optional Precision Mounting bracket with lift mechanism is available
Operating Conditions	Power: 120-240 VAC, 500 watts, 50-60 Hz. Temperature: 10-40 °C (50-104°F) Humidity: 10-60% RH (non-condensing)
Other MediaSense™ Products	• ID-2500 – Accurate Reading of IDENT Code for CDs and DVDs • PI-1600 – Basic Printed Graphics Inspection on Discs • PI-2000 – Full Printed Graphics Inspection on Discs • GV-2000 – Graphics Verification for Discs