



## HORIZONTAL DIGITAL VIDEO COMPARATORS

### HDV

#### HDV500 CNC

The HDV500 Digital Video Comparator offers the best features of a large horizontal optical comparator and a vision metrology system. Configured like a traditional horizontal comparator, the HDV500 has a long travel 20" x 8" (500 x 200mm) X-Y stage and heavy-duty steel construction. The workstage is the same as the popular HF600 and HF750 comparators, with a 330lb (150kg) load capacity. Much like the HDV300 and 400, the heart of the system centers on a uniquely designed interchangeable lens mounting system coupled to a hi-resolution color digital video camera (patent pending). The system is available with a choice of three telecentric lenses.

The HDV systems house a powerful 64-bit PC, which runs MetLogix M3 Metrology software. With this software, DXF CAD files can be imported and 2D Go-No-Go "profile gages" can be developed directly from the CAD files. Video-Edge-Detection (VED), allows real-time interaction of the imported file with the video image of the part being inspected.

#### HDV OPTICS

System Parameter	Telecentric Lenses		
Optical magnification	0.11x	0.16x	0.24x
Magnification on 42" monitor	6.5x	9.3x	14.7x
Field of view	3.0" (76mm)	2.1" (54mm)	1.4" (35mm)
Working distance	9.0" (228mm)	6.25" (159mm)	6.0" (150mm)
Optical Distortion, %	0.04%	0.03%	0.04%

#### OPERATOR INTERFACE

Feature	MetLogix™ M3
PC installed in main housing	x
Color graphics touch screen	x
Windows® 7 operating system	x
X-Y-Q (angle) measurements	x
2D geometry software with skew	x
Video edge detection	x
CAD file import and export	x
FOV measurements	x
Elimination of Overlays	x
Software developer	MetLogix™

Lens	Field of View (FOV)	
	in	mm
0.11x	3.0 x 2.5	76 x 64
0.16x	2.1 x 1.8	54 x 45
0.24x	1.4 x 1.1	35 x 29

