



OpenSYS 70 / 150

Video measuring system

MA 183 & MA 185



This entry-level system offers great ease of measurement. Its small size and weight makes it particularly practical in a workshop. Its simplicity of use is an asset for any operator.

- Granit base.
- Manual X-Y table.
- Manual precision Z column.
- Zoom-optics with indexes.
- 3.2 Mpx USB 3.0 color camera.
- LED circular illuminator.
- Computer with 27" monitor.
- Glass chromium deposit calibration ruler.
- Wide choice of measuring and comparison software.

Technical specifications



OpenSYS 70



OpenSYS 150

X-Y table range [mm]	70x70 manual	150x70 manual
Table precision [mm]	0.003 / 100	
Z column range [mm]	150 manual	150 manual
Column precision [mm]	0.030 / 100	
X-Y axis rulers	Acu-Rite	Heidenhain
Display resolution [mm]	0.001	
Maximum height of part to measure [mm]	150	
Weight (kg)	24	53
Dimensions column lowered (W x D x H) [mm]	410 x 370 x 550	550 x 440 x 550

Optical choice 1

Camera	Color 3.2 Mpx USB 3.0		
Optics	12X zoom / 8 indexes with or without coaxial illuminator		
Magnifications *	25X to 310X		
Fields of view [mm]	18.3 x 13.7 to 1.5 x 1.1		
Pixel resolution [μm] **	8.9	to	0.7
Focal length [mm]	86		

Optical choice 2






Camera	Color 3.2 Mpx USB 3.0		
Optics	12X zoom / 8 indexes with or without coaxial illuminator		
Magnifications *	40X to 465X		
Fields of view [mm]	12.2 x 9.2 to 1 x 0.7		
Pixel resolution [μm] **	5.9	to	0.5
Focal length [mm]	86		

Optical choice 3

Camera	Color 3.2 Mpx USB 3.0		
Optics	6.5X zoom / 4 indexes with or without coaxial illuminator		
Magnifications *	30X to 200X		
Fields of view [mm]	15.1 x 11.4 to 2.4 x 1.8		
Pixel resolution [μm] **	7.4	to	1.1
Focal length [mm]	92		

* = Indicated magnifications are calculated on 27" monitor and may be reduced by up to 12% according to the software configuration.

** = Camera pixel size / (sensor size / field of view)

Software					
Functions	 VideoPIC	 VideoDOC	 VideoRET Plus	 VideoPLAN	 M3
Displaying a reticle / cross	✓	✓	✓	✓	✓
Saving an image	✓	✓	✓	✓	✓
Saving measurements	-	✓	✓	✓	✓
Measuring / displaying angles	-	✓	✓	✓	✓
Distance measurement	-	✓	✓	✓	✓
Depth measurement	-	-	-	✓	✓
Importing and comparing DXF drawing	-	-	✓	✓	✓
Diameter and radius measurement	-	✓	✓	✓	✓
Measurement protocol	-	✓	✓	✓	✓
Display of X and Y axis	-	-	-	✓	✓
Display of Z axis	-	-	-	✓	✓
Automatic measurement by image processing	-	-	-	-	✓
Displaying and moving up to 2 pairs of lines	-	-	-	-	-
Displaying and moving up to 3 pairs of lines	-	-	-	-	-

Choice of axis display					
Axis Display	✓	✓	✓	-	-
Mx100	✓	✓	✓	-	-
Mx200	✓	✓	✓	-	-

Options

	Concentricity measuring tool for T-slot MA 143-007-02 (70) MA 145-003-02 (150)		Cast iron rotary table with graduation MA 145-15-70G (150)
	Concentricity control for T-slot MA 145r (150)		Aluminum rotary table with graduation MA 143-6-70G (70) MA 145-16-70G (150)
	Manual divider for T-slot MA 145d (150)		Aluminum rotary table MA 145-16-70 (150)
	±15° rotating between centers clamping bracket for T-slot MA 145a (150)		Vice (capacity 15mm) MA 143b-004 (70 / 150)
	Prism with clamping flange for T-slot MA 145e (150)		Adjustable vice (capacity 15mm) MA 143b-005 (70 / 150)
	Crocodile-pliers for T-slot MA 145b (150)		Crocodile-pliers on round support MA 143-010-01 (70 / 150)
	Clamp with parallel jaws for T-slot MA 145b-001 (150)		Clamp with parallel jaws on round support MA 143-010-02 (70 / 150)
	Collet holder for T-slot MA 145bZ (150)		Collet holder on round support MA 143-010-03 (70 / 150)
	V-block with spring clip for T-slot MA 145c (150)		V-block with spring clip on round support MA 143-010-04 (70 / 150)
	Ø40mm diaphragm for transmitted illuminator 45-030-01 (150)		Digital ruler Z-axis MA 461-170 (150)
	Digital display Mx100 MCA-300-101 (150)		Digital calculator Mx200 MCA-300-201 (150)