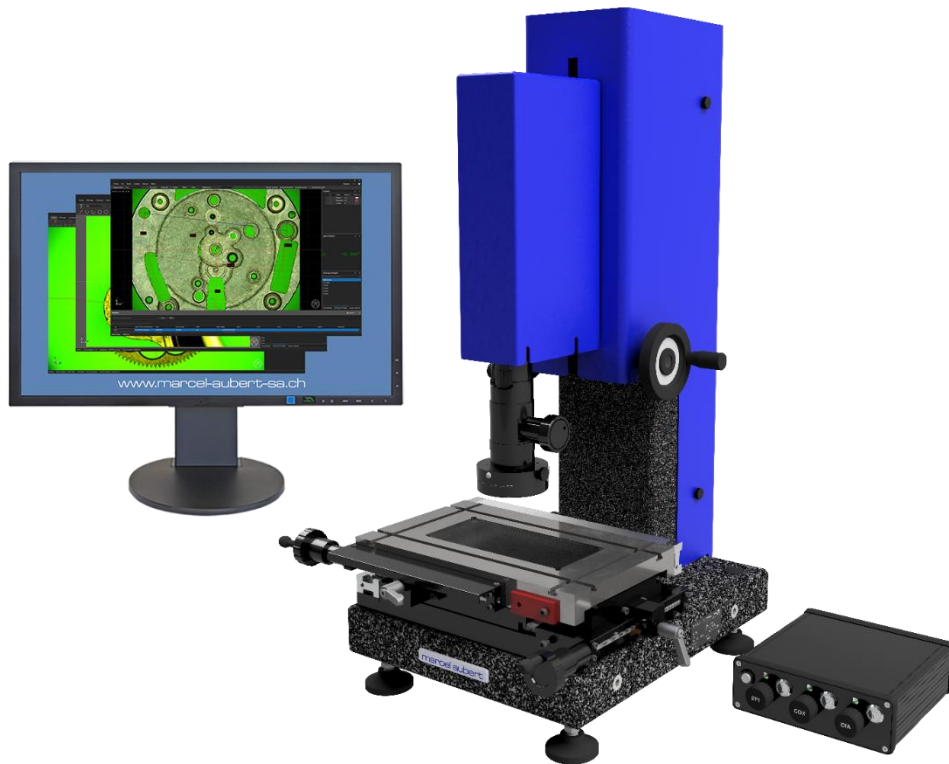




# Optimum GL 150

Video measuring system

MA 185



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This versatile enclosed workshop measuring machine offers great flexibility in the workplace thanks to improved ergonomics. The very high stability of the Z-axis column is optimized for measurements on panoramic images, composed using the "integrated image" (or "stitching") function.

The Optimum GL meets the most demanding applications thanks to its wide choice of zoom-optics for very high magnifications or telecentric optics with very large depths of field.

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

## Technical specifications



X-Y table range [mm]	150x70 manual
Table precision [mm]	0.003 / 100
Z column range [mm]	140 manual
Column precision [mm]	0.020 / 100
XYZ axis rulers	Heidenhain (Display resolution : 0.001mm)
Weight (kg)	70
Dimensions column lowered (W x D x H) [mm]	520 x 620 x 780



### Optical choice 1

Camera	Color 3.1 Mpx USB 3.0
Optics	Zoom 12.5X detent
Magnifications *	25X to 335X
Fields of view [mm]	18.2 x 13.7 to 1.4 x 1.1
Pixel resolution [ $\mu$ m] **	8.9 to 0.7
Focal length [mm]	77.4

### Optical choice 2

Camera	Couleur 3.1 Mpx USB 3.0
Optics	Zoom 12.5X detent
Magnifications *	40X to 505X
Fields of view [mm]	12.2 x 9.1 to 0.9 x 0.7
Pixel resolution [ $\mu$ m] **	6.0 to 0.5
Focal length [mm]	77.4

\* = 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	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	-	✓

## Options

	<b>Concentricity measuring tool for T-slot</b> MA 145-003-02		<b>Cast iron rotary table with graduation</b> MA 145-15-70G
	<b>Concentricity control for T-slot</b> MA 145r		<b>Aluminum rotary table with graduation</b> MA 145-16-70G
	<b>Manual divider for T-slot</b> MA 145d		<b>Aluminum rotary table</b> MA 145-16-70
	<b>±15° rotating between centers clamping bracket for T-slot</b> MA 145a		<b>Vice (capacity 15mm)</b> MA 143b-004
	<b>Prism with clamping flange for T-slot</b> MA 145e		<b>Adjustable vice (capacity 15mm)</b> MA 143b-005
	<b>Crocodile-pliers for T-slot</b> MA 145b		<b>Crocodile-pliers on round support</b> MA 143-010-01
	<b>Clamp with parallel jaws for T-slot</b> MA 145b-001		<b>Clamp with parallel jaws on round support</b> MA 143-010-02
	<b>Collet holder for T-slot</b> MA 145bZ		<b>Collet holder on round support</b> MA 143-010-03
	<b>V-block with spring clip for T-slot</b> MA 145c		<b>V-block with spring clip on round support</b> MA 143-010-04