

Garant**Video measuring microscope MM1, Type: 300****Order data**

Order number	492500 300
GTIN	4062406160210
Item class	41P

Description**Version:**

Measuring microscope with quick image processing, high-resolution colour camera, and a multi-touch panel PC that is easy to operate and suitable for the workshop environment, with **intuitive M3 measurement software**.

Incident illumination: 56 white LEDs in 2 concentric rings. 1 ring and 4 segments can each be separately switched and dimmed.

Transillumination: Long-life LEDs, telecentric, can be switched and dimmed. **Solid granite base** with surface-hardened indexing table and high-precision guides. Ergonomic quick adjustment with one-handed operation in both axes (X and Y). **Diode laser** as positioning guide. Very high repetition accuracy thanks to **automatic edge detection**.

Now with M3 software version 4:

- **With modern 64 bit application for easy handling of large data.**
- **Extended measurement programme recording mode with optional standard or extended recording mode.**
- **Save and load reference system: ideally suited to the use of quick-clamping systems.**
- **New export functions such as direct export to PDF and improved speed for direct export to Excel.**

Application:

- **In goods receiving, in the inspection room, in manufacturing.**

- **Suitable for general purpose use due to flexible four-quadrant incident light and compact measurement computer.**
- **A wide variety of geometric shapes and materials can be reliably measured in a user-friendly manner. Documentation can also be performed.**

Cutting data:

Zoom level / Shown on display / Field of view: 0.35× / 16× / 20×13 mm².

Zoom level / Shown on display / Field of view: 0.5× / 23× / 14×9 mm².

Zoom level / Shown on display / Field of view: 1× / 43× / 7×4 mm².

Zoom level / Shown on display / Field of view: 1.5× / 65× / 4×3 mm².

Zoom level / Shown on display / Field of view: 2× / 90× / 3×2 mm².

Zoom level / Shown on display / Field of view: 2.5× / 100× / 3×2 mm².

Supplied with:

All-in-One PC, wireless mouse and keyboard, dust cover, power supply unit, test certificate, and user manual.

Optional extras:

Lens No. 491912, software option No. 491913, cutting edge cleaner No. 354788.

Note:

Length measurement variation $E_{U_{XY}, MPE}$ to DIN EN ISO 10360-7 for magnification factor = 0.5.
Permissible ambient conditions: 20 °C ± 1 K, temperature gradient $\Delta_{th} = 0.5$ K/h, $\Delta_{th} = 4.0$ K/d, measured with a calibrated standard.

For all GARANT video measuring microscopes we can offer you the following on request:

- **Maintenance contract.**
- **Installation and commissioning with brief instruction on use.**
- **Individual training for your employees.**
- **On-site calibration.**

We reserve the right to make technical changes and to change the touch panel version.

Technical description

Measuring range Y	200 mm
Weight	115 kg
Measuring range X	300 mm
Field of view	14×9 mm
maximum component weight	20 kg
Camera	6.4 megapixels
Working distance	80 mm
Height	950 mm
Measuring range Z	200 mm

Magnification at the screen (times)	23
Width	900 mm
Lens (times)	0.5
Length	730 mm
maximum component height	200 mm
Length measurement variation $E_{UXY, MPE}$ optically (2D)	$2.9 + L / 100$ (L in mm) at $20\text{ °C} \pm 1\text{ K } \mu\text{m}$
Power supply	Mains operated
Nominal voltage	230 / 240 V
Type of product	Video measuring microscope

Accessories

Software option for MM1 Type PROFIL	491913 PROFIL
Software option for MM1 Type DXF	491913 DXF
Anti-slip mat $A5 \times 1\text{ mm}$	491955
Accessories for video measuring microscopes Type FEDER	491917 FEDER
Dust cover Type 300	491919 300
Base cabinet for measuring microscopes width×depth 1800X900 mm	491914 1800X900
Lens for measuring microscopes MM1/MM2 Type 3	491912 3
Spare glass plate for video measuring microscope MM1 Type 300	491948 300