

Video measuring microscope MM1, Type: 300/6X



Order data

| Order number | 492500 300/6X |
|--------------|---------------|
| GTIN | 4062406160234 |
| 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

With 6-step manual raster zoom lens, magnification from $0.35 \times$ to $2.25 \times$ and coaxial light for uniform illumination of components.

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 dataa:

Zoom level / Shown on display / Field of view: $0.35 \times / 16 \times / 20 \times 13 \text{ mm}^2$. Zoom level / Shown on display / Field of view: $0.5 \times / 23 \times / 14 \times 9 \text{ mm}^2$. Zoom level / Shown on display / Field of view: $1 \times / 43 \times / 7 \times 4 \text{ mm}^2$.

Zoom level / Shown on display / Field of view: $1.5 \times / 65 \times / 4 \times 3 \text{ mm}^2$. **Zoom level / Shown on display / Field of view:** $2 \times / 90 \times / 3 \times 2 \text{ mm}^2$.

Zoom level / Shown on display / Field of view: $2.5 \times / 100 \times / 3 \times 2 \text{ mm}^2$.

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 $E_{UXY,MPE}$ to DIN EN ISO 10360-7 for magnification factor = 0.5. Permissible ambient conditions: 20 °C \pm 1 K, temperature gradient Δ_{th} = 0.5 K/h, Δ_{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

| Lens (times) | 0.35 – 2.25 |
|---|---|
| Field of view | 20×13 – 3×2 mm |
| Measuring range Z | 200 mm |
| Length measurement variation E _{UXY, MPE} optically (2D) | $2.9 + L / 100$ (L in mm) at 20 °C ±1 K μ m |
| Working distance | 80 mm |
| Measuring range Y | 200 mm |
| Camera | 6.4 megapixels |

| Weight | 115 kg |
|-------------------------------------|----------------------------|
| Width | 900 mm |
| Measuring range X | 300 mm |
| maximum component height | 200 mm |
| Height | 950 mm |
| Magnification at the screen (times) | 16 – 100 |
| Length | 730 mm |
| maximum component weight | 20 kg |
| Nominal voltage | 230 / 240 V |
| Power supply | Mains operated |
| Type of product | Video measuring microscope |

Accessories

| Dust cover Type 300 | 491919 300 |
|--|-----------------|
| Lens for measuring microscopes MM1/MM2 Type 3 | 491912 3 |
| Base cabinet for measuring microscopes width×depth 1800X900 mm | 491914 1800X900 |
| Software option for MM1 Type PROFIL | 491913 PROFIL |
| Anti-slip matA5 × 1 mm | 491955 |
| Accessories for video measuring microscopes Type FEDER | 491917 FEDER |
| Software option for MM1 Type DXF | 491913 DXF |
| Spare glass plate for video measuring microscope MM1 Type 300 | 491948 300 |