Garant

Video measuring microscope MM1, Type: 200MZ

Order data

Order number	492500 200MZ
GTIN	4067263265085
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 motorised zoom lens, magnification from 0.3× to 3.5 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× / 16× / 20×13 mm^2.

Zoom level / Shown on display / Field of view: 0.5× / 23× / 14×9 mm^2.

Zoom level / Shown on display / Field of view: 1× / 43× / 7×4 mm^2.

Zoom level / Shown on display / Field of view: 1.5× / 65× / 4×3 mm^2.

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

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

Width	600 mm
Nominal voltage	230 / 240 V
Working distance	80 mm
Measuring range X	200 mm
Field of view	24×16 – 2×1 mm
Magnification at the screen (times)	10 – 162
Weight	60 kg
Height	770 mm

Camera	6.4 megapixels
Measuring range Z	100 mm
Length measurement variation $E_{UXY, MPE}$ optically (2D)	2.9 + L / 100 (L in mm) at 20 °C ±1 K µm
Measuring range Y	100 mm
maximum component height	100 mm
Lens (times)	0.3 – 3.5
Power supply	Mains-powered
maximum component weight	20 kg
Length	500 mm
Type of product	Video measuring microscope

Accessories

Clamping systems for GARANT video measuring microscopes suitable for table width 200 mm	494430 200
Accessories for video measuring microscopes Type FEDER	491917 FEDER
Lens for measuring microscopes MM1/MM2 Type 3	491912 3
Dust cover Type 200	491919 200
Software option for MM1 Type DXF	491913 DXF
Anti-slip matA5 × 1 mm	491955
Software option for MM1 Type PROFIL	491913 PROFIL
Spare glass plate for video measuring microscope MM1 Type 200	491948 200