

## Video measuring microscope MM1, Type: 200



## **Order data**

Order number	492500 200
GTIN	4062406159702
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 userfriendly 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  $\Delta_{th}$  = 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**

Magnification at the screen (times)	23
Measuring range X	200 mm
Working distance	80 mm
Measuring range Z	100 mm
Weight	60 kg
Camera	6.4 megapixels
Measuring range Y	100 mm
Width	600 mm
Field of view	14×9 mm

Length	500 mm
Length measurement variation E <sub>UXY, MPE</sub> optically (2D)	$2.9 + L / 100$ (L in mm) at 20 °C $\pm 1$ K $\mu$ m
maximum component height	100 mm
maximum component weight	20 kg
Height	770 mm
Lens (times)	0.5
Nominal voltage	230 / 240 V
Power supply	Mains operated
Type of product	Video measuring microscope

# **Accessories**

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