PRO-7 3D

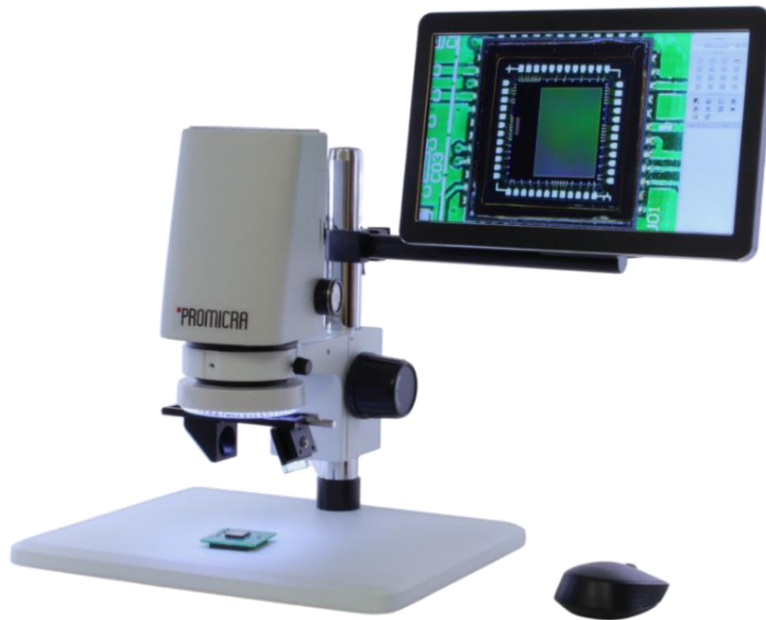**PROMICRA**

All-in-One 3D Digital Measuring Microscope
Easy and Responsive Sample Inspection, Acquisition, Documentation, and 2D Measurement without a Computer

Basic configuration of the PRO-7 3D microscope

Features and Functions:

- **An all-in-One digital microscope that doesn't need a computer, saving space and money**
- **Built-in 11.6" Full HD monitor** or an option to connect a separate monitor, TV or projector via HDMI cable
- **Mouse control of device functions directly on the connected monitor**
- **Unique spatial observation capability with 3D attachment;** easy switching between 2D and 3D observation; same center position for standard 2D and 3D observations
- **Large optical zoom range 7:1 (0.7 – 5x) with constant plane of focus and click-stop positions:** 0.7x, 1x, 1.5x, 2x, 2.5x, 3x, 4x, 5x
- **Built-in HD digital camera with 2 MP (Full HD – 1920 x 1080 px) resolution for live view and still images**
- **Highly fluent live view with a frame rate of 60 frames per second enables lag-free observation**
- **Built-in HDR function**
- **Built-in powerful ring LED illumination** with 144 LEDs and smooth intensity adjustment provides homogeneous illumination of the samples
- **Wide range of 2D measurement functions** in live view with the option of saving to images
- Live view text annotations with the option to save to images
- **Saving images and measurement results to a connected USB flash drive**
- **Viewing of saved images**
- **Exporting measurement results to a CSV file** (compatible with MS Excel and other table processors)
- **Easy handling and operation, quick system start**
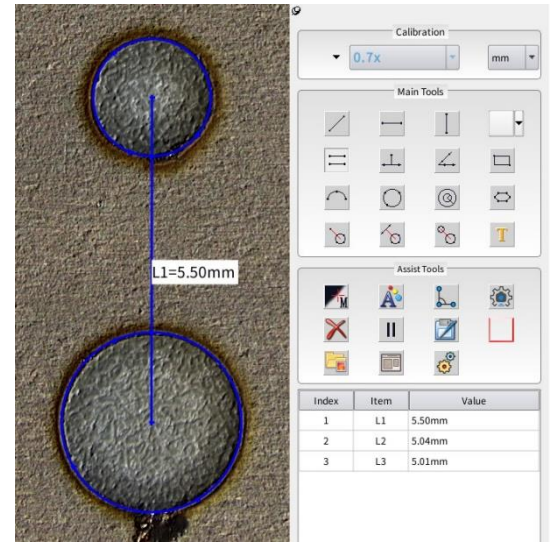- Ergonomic positioning of the built-in monitor to reduce user fatigue

Scan with your smart phone to view 3D observation demonstration videos

- Optional expansion by using additional lenses 0.5x, 0.7x
- Optional advanced stands e.g., stand with transmitted light, stand with swing arm (boom stand)
- Certification: CE, RoHS
- Dimensions including built-in monitor (W x D x H): 52.5 x 29 x 50 cm
- Weight: 5.5 kg
- A solution suitable also for education

Measurement Features:
- Measurement directly in the live view with the option of saving the measurements to the captured images
- Choice of units (microns, mm, mils, inches) and number of displayed decimal places
- Length of a line segment
- Distance of a point from a straight line
- Angle defined by two lines with the possibility of a vertex outside the field of view
- Rectangle: dimensions, perimeter, area
- Arc: radius, diameter, length, clamped angle
- Circle: radius, diameter, circumference, area
- Concentric circles (intermediate circles) – radii of inner and outer circles, their difference and ratio, area of the intermediate circle
- Polygon: perimeter, area
- Distance of the center of the circle from the point
- Distance of the center of the circle from the line
- Distance between the centers of two circles
- Central cross and grid display
- Automatic snapping to edges in the image
- Possibility to choose the color and thickness of lines of measuring objects

Magnification Specifications:

Objective Magnification	0.5x (optional)	0.7x (optional)	1x (included)
Total magnification on the built-in 11.6" monitor	5x – 37x	7x – 52x	10x – 74x
Total magnification on optional 24" monitor	10x – 74x	14x – 102x	20x – 152x
Field of view (diagonal)	60 mm – 8.3 mm	43 mm - 6 mm	30 mm - 4 mm
Working distance	180 mm	128 mm	110 mm

Parts of the Basic Configuration:

Microscope body with 7:1 zoom with built-in 1x objective, built-in digital HD camera, built-in computer with measurement software and 12V power supply, ring LED illuminator, 3D extension attachment for spatial observation, 11.6" Full HD monitor with mounting arm, connecting HDMI cable and 12V power supply, stand with 32 x 26 cm flat base and mounting rod of 32 mm diameter, mouse, USB flash drive to store images and measurement results.

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