

PRO-20 AF

PROMICRA

All-in-One Digital Measuring Macro-microscope
with 20:1 Optical Motorized Zoom and Autofocus



PRO-20 AF basic configuration

Main Features:

- **All-in-One digital macro-microscope that does not need a computer, saving space and money**
- **Optical zoom with a large magnification range of 20:1 with motorized control suitable for macro and micro inspection and documentation**
- **Fast autofocus**
- **Extra-large field of view 200 x 112.5 mm at the smallest zoom magnification**
- **Built-in 13.3" Full HD LCD 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
- **Built-in HD digital camera with 2 MP (Full HD – 1920 x 1080 px) resolution for live video and still images**
- **Highly fluent live image with a frame rate of 60 frames per second** enables lag-free observation
- **Built-in computer with measuring software**
- **Built-in ring LED diffused illumination** with smooth intensity control provides homogeneous illumination of the samples
- **Wide range of 2D measurement functions** in live image with the option of saving to images
- **Marking points of interest in live image with arrows** with the option of saving to images
- **Video recording**
- **Storage of images, videos, and measurement results on SD card**
- **Viewing of saved images, interactive comparison of an image with the live image**
- **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
- Optional advanced stands e.g. stand with transmitted light, stand with swing arm (boom stand)
- Certification: CE, RoHS
- Dimensions including built-in 13.3" monitor (w x d x h): 60 x 28 x 40 cm
- Weight: 5 kg

Measuring Features:



- Measurements directly in the live image with the option to save the measurements to the captured images
- Choice of units (microns, mm, mils, inches) and number of displayed decimal places
- Display of calibrated scale bar
- Length of a line segment
- Distance of the point from the line
- Angle through three points, angle defined by two lines with the possibility of a vertex outside the field of view
- Rectangle: dimensions, perimeter, area
- Circle: diameter, perimeter, area
- Arc: diameter, length, clamped angle
- Concentric circles (intermediate circles): radii of the inner and outer circles, area of the intermediate circle
- Distance between the centres of two circles
- Polygon: perimeter, area
- Length of a curve
- Display of the central cross, grid
- Possibility to choose the color and thickness of lines of measuring objects

Magnification Specifications:

	Minimal zoom value 1x	Maximal zoom value 20x
Total magnification on 13.3" built-in monitor	1.5x	29.4x
Total magnification on optional 24" monitor	2.7x	53x
Field of view dimensions	200 x 112.5 mm	10 x 5.6 mm
Working distance	195 mm	195 mm

Parts of the Basic Configuration:

PRO-20 AF body with 20:1 motorized zoom and autofocus, built-in digital HD camera, built-in computer with measuring software and 12V AC adapter, ring light diffused illuminator, 13.3" Full HD LCD monitor with mounting arm, HDMI cable and 12V AC adapter, stand with 38 x 26 cm flat base and a mounting rod of 25 mm diameter, mouse, SD card.

