

PRO-18 AF 4K

PROMICRA

All-in-One 4K Digital Measuring Macro-microscope
with 18:1 Optical Motorized Zoom and Autofocus



PRO-18 AF 4K device with optional illuminator for large samples and 28" 4K UHD monitor

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 18:1 with motorized control suitable for macro and micro inspection and documentation**
- **Fast autofocus**
- **Extra-large field of view 255 x 1145 mm at the smallest zoom magnification**
- **Built-in 13.3" 4K UHD LCD monitor** or an option to connect a separate 4K or Full HD monitor, TV or projector via HDMI cable
- **Mouse control of device functions** directly on the connected monitor
- **Built-in 4K digital camera with 8 MP (4K UHD – 3840 x 2160 px) resolution for live video and still images**
- **Highly fluent live image with a frame rate of 30 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
- **4K UHD video recording to an SD card or a USB flash drive**
- **Storage of images and measurement results to an SD card or a USB flash drive**
- **Viewing of saved images, interactive comparison of a saved image with the live image or two 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**

- Optional advanced stands e.g. stand with swing arm (boom stand) and illuminators e.g. LED illuminator for large samples, illuminator with transmitted light, goose neck illuminator
- Certification: CE, RoHS
- Dimensions including built-in 13.3" monitor (w x d x h): 50 x 38 x 54 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
- Distance between two parallel lines
- 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
- Ellipse: 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 18x
Total magnification on 13.3" built-in monitor	1.2x	20.8x
Total magnification on optional 28" monitor	2.4x	43.7x
Field of view dimensions	255 x 145 mm	14.2 x 8 mm
Working distance	250 mm	250 mm

Parts of the Basic Configuration:

PRO-18 AF 4K body with 18:1 motorized zoom and autofocus, built-in digital 4K camera, built-in computer with measuring software and 12V AC adapter, diffused ring light LED illuminator, 13.3" 4K UHD LCD monitor with mounting arm and HDMI cable, tiltable stand with 26 x 38 cm flat base with manual working distance adjustment (up to 34 cm), wireless mouse, SD card.

