

PRO-7 3D 4K

PROMICRA

All-in-One 4K Motorized 3D Digital Measuring Microscope

Fast observation, documentation and measurement without the need for a computer



Key Advantages:

- **Space and cost savings** – All-in-One solution without an external computer
- **Instant measurement readiness** – built-in computer with measurement software, fast system startup
- **Top image quality** – images and video in resolution 8 MP/4K UHD.
- **Higher work productivity** – motorized zoom and fast autofocus
- **Perfect sharpness across the entire sample** – built-in focus stacking (EDF) for large depth of field
- **3D visualization of sample structure** – 3D attachment with side view and rotation
- **Homogeneous sample illumination** – powerful 4-zone circular LED illumination with continuous intensity control
- **Healthier and more comfortable work** – ergonomic observation on a tiltable monitor instead of eyepieces
- **Easy operation** – intuitive controls suitable even for less experienced users
- **Wide range of applications** – suitable for technical and life science applications and education

Features and Specifications:

- **All-in-One digital microscope, no PC required** – saves space and costs
- **Built-in computer with measurement software**
- **Built-in 4K UHD camera**, images and video at 8 MP resolution
- **Smooth live image at 4K UHD (3840 × 2160 px) or Full HD (1920 × 1080 px) at 60 fps** (no delay)
- **Motorized optical zoom 6.9:1 + digital zoom 1× – 6×**
- **Fast autofocus with interactive control + manual focus**
- **Automated focus stacking (EDF)**
- **Extensive live-view measurement functions** with the option to save results to images
- **Automatic zoom value readout for accurate measurement**
- **Unique spatial observation using the 3D attachment**; easy 2D/3D switching
- **4-zone LED illumination with diffuser**, continuous intensity control for homogeneous sample illumination
- **Built-in HDR function**
- **Built-in 11.6" Full HD monitor**, with the option to connect an external 4K or Full HD monitor, TV, or projector
- **Operated via wireless mouse** directly on the device monitor
- **Hand controller (keypad) for image capture, AF/MF switching and manual focus control**
- **Live view annotations** (arrows, drawings, text notes) saved to images
- **Save 8 MP images, 4K UHD videos (60/30 fps) and measurement results to USB flash drive** (max. 128 GB)
- **View images and videos directly on the device, including interactive comparison of an image with live view**
- **Export measurement results to CSV** (compatible with Microsoft® Excel® and other spreadsheet applications)
- **Ergonomically tiltable monitor** to reduce user fatigue
- **Easy handling, fast system startup**
- **Expandable with optional add-on 0.5× lens** for a larger field of view (replaces the 3D attachment)
- **Certifications: CE, RoHS**
- **Dimensions (W × D × H): 26 × 32 × 41 cm (10.2" × 12.6" × 16.1")**; weight: 5,1 kg



Scan to watch
3D observation videos

2D Measurement Features:

- **2D measurement directly in live view** with option to save to captured images
 - **Unit and precision settings** – configure units, decimal places and measured quantities
 - **Point coordinate display**
 - **Length and distance measurement** – line length, distance between two parallel lines, multiple parallel line distances, polyline length
 - **Measurement relative to reference line** – distance(s) from the reference line, point-to-line distance
 - **Two perpendicular line segments** – measuring individual lengths
 - **Angle measurement** – angle by three points, angle between two line segments (vertex may be outside the field of view)
 - **Arc measurement** – length and radius
 - **Circle defined by radius, diameter or three points** – radius, diameter, circumference and area
 - **Distance between circle center and a point**
 - **Distance between centers of two circles**
 - **Concentric circles** – radii, circumferences and areas
 - **Rectangle** – width, height, perimeter and area
 - **Polygon** – perimeter and area
 - **Ellipse** – dimensions, circumference, area and eccentricity
 - **Freehand area** – perimeter and area
 - **Manual object counting**
 - **Scale and guide display** – scale bar, crosshair or grid
 - **Automatic snap of measurement points** to edges in the image
 - **Measurement appearance settings** – line color and thickness, font size and color
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Magnification Specifications:

Objective Magnification	1× (included)	0.5× (optional)
Total magnification on built-in 11.6" monitor	9.3× – 63.8×	4.7× – 31.9×
Total magnification on optional 27" monitor	21.6× – 148.5×	10.8× – 74×
Field of view	27.17 × 15.28 – 4.0 × 2.25 mm	54 × 30 – 8.0 × 4.5 mm
Working distance	100 mm	180 mm

Standard Configuration Includes:

- Microscope body with 6.9:1 zoom and 1× objective lens
- Built-in 8 MP digital camera
- Built-in computer with measurement software and 12V power adapter
- Built-in 4-zone circular LED illuminator
- 3D attachment for spatial observation
- Stand with flat base (W × D) 26 × 32 cm (10.2" × 12.6") and a column height 35 cm (13.8")
- Hand controller (keypad)
- Wireless mouse
- USB flash drive for storing images, videos and measurement results

