

# MEC3 Inverted Microscope

UNITRON®

- Compact, ergonomic design for easy, durable use for observation of metallurgical samples, electronic components, and metal parts
- Suitable for brightfield & simple polarization observation
- Dual photo ports maximize usability and versatility



EXCELLENCE BY DESIGN

# MEC3 Inverted Microscope

UNITRON®



Cat #14701

- Fixed stage design and new integrated mechanical stage provide stable control even with heavy samples
- UNITRON's new Infinity M Plan Achromat LWD objectives provide bright, high resolution images with improved contrast and high N.A. values
- 10 watt LED reflected light illuminator with a condenser and lamp centering mechanism

## SPECIFICATIONS

<b>Optical System</b>	UNITRON Infinity M Plan Achromat LWD 5x, 10x, 20x and 50x objectives <i>Optional 100x dry objective available</i>
<b>Observation Method</b>	Brightfield and simple polarizer/analyzer
<b>Focusing</b>	Vertical action movement revolving nosepiece (fixed stage); coaxial coarse and fine adjustment
<b>Nosepiece</b>	Quintuple revolving nosepiece
<b>Stage</b>	Integrated double layer mechanical stage: 226 x 178mm; travel range: 40mm (X) 40mm (Y) with $\varnothing$ 20mm and $\varnothing$ 30mm aperture teardrop stage insert plates
<b>Illuminator</b>	10 watt variable LED illuminator with lamp centering mechanism, built-in lever type condenser and aperture diaphragm with rotatable filter slot for blue, yellow, green and frosted filters
<b>Eyepieces</b>	WF10x/20mm focusing eyepieces with roll-down eyeguards
<b>Viewing Head</b>	45° inclined trinocular viewing head with 48-75mm interpupillary adjustment; viewing heads have a 180° rotatable eyepoint adjustment to accommodate the needs of individual users
<b>Imaging Ports</b>	Dual imaging ports: Bottom: 100% binocular or 80% binocular / 20% camera Top: 0% binocular / 100% camera
<b>Dimensions &amp; Weight</b>	279 x 647 x 444 mm (w x d x h); weight: 23 lbs.
<b>Accessories</b>	<i>Excelis HD, Lumenera®, and Micrometrics® cameras with measurement and materials software</i> C-mount adapters with 0.30x, 0.50x, 0.5x high resolution, 0.67x high resolution, and 0.70x Reticles: crossline, grid, Austenite grain size and custom patterns are available Stage micrometers, Metric (mm) and English (inches) with NIST traceability are available

CAT #	Magnification	N.A.	Working Distance (mm)
147-15-05	5x	0.12	10
147-15-10	10x	0.25	10
147-15-20	20x	0.40	5
147-15-50	50x	0.75	2
147-15-100	100x	0.90	0.7

**ISO 9001**  
Certification  
Design and production adheres to ISO9001 international quality standard.



**ISO 14001**  
Certification  
Design and production meets the requirements of international standard ISO 14001 for environmental management.

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