DI-AM1165
Super-depth 3D 디지털 현미경



- A high-definition telecentric imaging lens System, achieving a magnification range of 30x to 6000x.
- Equipped with four objective lenses that can be fully electrically switched, eliminating the need for manual lens switching.
- Supports various reflective illumination modes, including: bright-field coaxial illumination, bright-field oblique illumination, dark-field coaxial illumination, dark-field oblique illumination, mixed illumination, and transmitted illumination, with adjustable brightness.
- Features an electric XY axis, an electric lower Z axis, and an electric upper Z axis, enabling fully automated high-precision control.
- Supports 2D observation, automatic focusing, image quality enhancement, split-screen display, 3D observation, 2D/3D stitching, 2D/3D measurement, image capturing, saving, and video recording.
- Configured with an industrial control computer for display processing, integrated with a 12th-generation processor, and supporting the Windows 10 operating system.

Specification

Parameter	
Objective Lens	Optional, four objective lenses available: M30, M300, M700, M1500. Default configuration includes four lenses.
Handle	Optional, USB 2.0 interface, default configuration includes one handle.
Microscope Specifications	
Magnification	30X~6000X
Lateral Resolution	0.42um
Observation Distance	Maximum 30mm, Minimum 2mm
Maximum Sample Height	90mm
Maximum Depth of Field	30mm
Illumination	Modes Bright-field coaxial, Bright-field oblique, Dark-field coaxial, Dark-field oblique, Mixed illumination, Transmitted illumination
Light Source Lifespan	LED light source with an estimated lifespan of 40,000 hours
Objective Lens Switching	Electric
Zoom Mode	Electric
Maximum Observable Image Size	5 billion pixels
Tilt Observation Angle	-89° to 89° (±1°)
Camera Parameters	
CMOS Sensor	1/1.7" 12.22 MP (4168 × 3062)
Scanning Mode	Progressive Scan
Frame Rate	30 fps
Resolution	Fast Mode: 2048 × 1536 Standard Mode: 2880 × 2160 High-Resolution Mode: 4000 × 3000 Ultra High-Resolution Mode: 8000 × 6000 / 12000 × 9000
White Balance	Manual, Preset
Gain	Manual, Preset
Display Parameters	
Size	27 inches
Screen Dimensions	596.736mm×335.664mm
Pixel Pitch	0.1554mm×0.1554mm
Resolution	3840×2160
Display Colors	Approximately 1.07 billion colors
XY Motion Platform Parameters	
Electric/Manual	Electric
Motor Type	2-phase stepper motor
Positioning Accuracy	1um
Movement Speed	10mm/s
Motion Range	±20mm
Tilt Angle	-90° to 90° (±1°)
Platform Dimensions	228mm×204mm
Load Capacity	5kg
Upper Z-axis	
Electric/Manual	Electric

Motor	5 -phase stepper motor
Resolution	0.1um
Movement Speed	16.5mm/s
Movement	50mm
Lower Z axis	
Electric / Manual	electric
Motor	2- phase stepper motor
Resolution	1um
Movement Speed	6mm/s
Movement distance	50mm
Environmental requirements	
Operating temperature	5~40 ℃
Operating humidity	20 to 80%RH (non- condensing)
Storage temperature	5~40 ℃
Storage humidity	20 to 80%RH (non- condensing)
other	
weight	70Kg
size	Width 323mm × Height 710mm × Length 597mm
power supply	220V
Power consumption	Peak 700W
Microscope function parameters	
2D basic observation	Yes
Autofocus	Yes
Manual focus	Yes
Focus View	Yes
Lighting Switching	Yes
2D Tilted Observation	Yes
Screen Splitting	Yes (Supports left-right, up-down, 4-segment, and 9-segment screens; can be customized for multiple display areas)
Wide-angle display	Yes
Real-time digital zoom	Yes , 1~10x
Batch Display	Yes
Glare Removal	Yes, brightness adjustable from 0 to 100
Ambient Light Removal	Yes, adjustable between weak, medium and strong
HDR (High Dynamic Range)	Yes, brightness / texture emphasis / contrast / color 0~100 adjustable
Optical Shadowing	Yes
Contrast adjustment	Yes
Saturation adjustment	Yes
Shake Correction	Yes
AI Enhancement	Yes
Resolution Enhancement	Yes
2D stitching	Yes, maximum stitching size 5 billion pixels
3D stitching	Yes, maximum stitching size 2.5 billion pixels, 50,000×50,000 pixels
High-Precision 3D Synthesis	Yes

Fast 3D Synthesis	Yes
Flying 3D	Yes
Ultra-high precision 3D synthesis	Yes
Microscopic Observation	Yes
3D Display	Yes
Capture and save images/videos	Yes
Scheduled Capture	Yes
Capture Condition Replay	Yes
Video Recording Playback	Yes
Scale Display	Yes
2D measurement - distance / angle / radius /area measurement	Yes
Automatic area measurement	Yes, can measure length and area by extracting brightness / color you
2D measurement - automatic edge extraction	Yes
Particle counting	Yes
3D Wheel Groove Measurement	Yes
Point height measurement	Yes
Volume measurement	Yes
Roughness measurement	Yes
Quick Start Function	Yes
Navigation	Yes
One-click Report Export	Yes

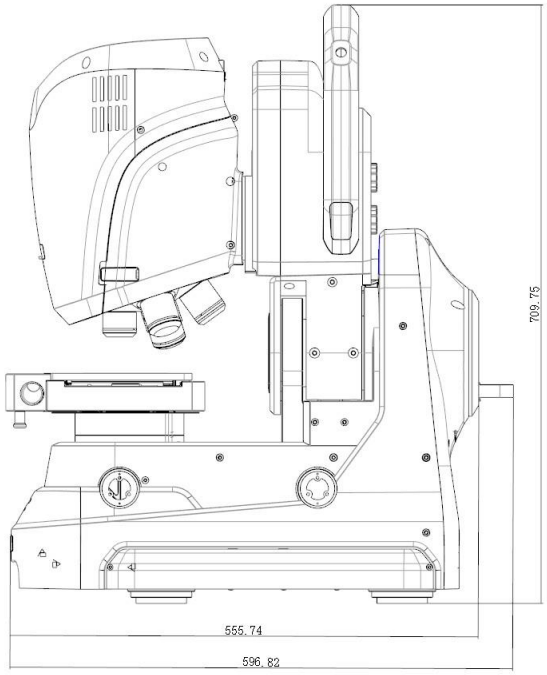
▪ Order Model

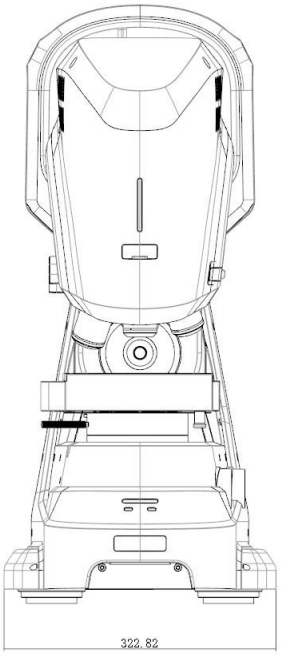
DI-AM1165

DI-AM1165- Z

DI-AM1165- M

▪ Dimensions


709.75
555.74
596.82


322.82

见远 行更远

See Far, Go Further



online小程序



国内公众号



服务公众号



企业微信

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