Dino-Lite
Digital Microscope

AM7915MZT

The 5MP Edge AM7915MZT has perfectly merged AMR and EDOF/EDR into one unit which maximizes flexibility to meet most professional needs, not to mention its stunningly image quality and illumination freedom are well-suited for various imaging requirement.
.Overview

Adjustable polarizer
The built-in adjustable polarizer allows to remove freely the unwanted reflection or glare from the object surface for a better contrast.

High optical resolution
The superior optics adopted in the Edge series reveals the finest details, answering the needs of the most demanding microscopy applications.

5.0 Megapixels
Thanks to the low loss MJPEG compression, the advanced CMOS image sensor allows to transmit fluid and crisp image with resolution up to 2592x1944.

Extended Depth of Field (EDOF)
Viewing rough surface with height range out of depth of focus, the EDOF can take several images at different focus and stack them automatically within a click.

Extended Dynamic Range (EDR)
Observing high contrast or reflective surface, the EDR can help to reveal the details of dark or bright areas by stacking images taken at different exposure levels.

Scroll Lock
The scroll lock ensures the focus knob staying at the desired focus or magnification position without worry of unintentional movement.

Robust housing
The metal housing made of aluminum alloy offers compelling advantages of protection and endurance.

Interchangeable caps
The interchangeable caps provide adaptability to numerous applications with alternative lighting or object interface, such as but not limited to diffused-light, ring-light, and coaxial-light etc.

Flexible LED Control (FLC)
Tasking with software, the FLC maximizes illumination flexibility by offering independent on/off control to the four LED quadrants in addition to the 6-levels intensity adjustment capability.

Automatic Magnification Reading (AMR)
Without the hassle to stop and check the magnification for doing a measurement, the AMR detects the magnification rate automatically through the software, making the measurement be a more efficient, accurate, and pleasant process.

Interchangeable front caps

N3C-C / Close Cap
This cap protects the lens and LED lights from contamination of dust, debris, or moisture.

N3C-E / Extended Open Cap
Dino-Lite Edge (stand type) will focus at approximately 200x when the cap touches surface.

N3C-O / Open Cap
This is the standard cap for normal usage.

N3C-D / Diffuser Cap
This cap diffuses the LED light.

N3C-D2 / Opal Diffuser Cap
This cap diffuses the LED light.

N3C-L / Long Cap
This cap is useful to adjust the working focus of Dino-Lite Edge at lower magnification.

N3C-S / Sidelight Cap
This cap creates images with more depth and texture.

Specification

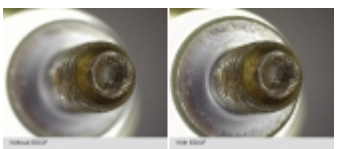
Model	AM7915MZT Dino-Lite Edge
Interface	USB 2.0
Product Resolution	5M pixels (2592x1944)
Magnification	10x~220x
Frame Rate	10fps in 5MP/3MP/2MP, MJPEG 25fps in 1.3MP, MJPEG 30fps in VGA, MJPEG
Lighting	8 white LEDs
Polarizer	Yes
Microtouch	Yes
Operating System Supported	Windows 10, 8, 7, Vista, XP Mac OS 10.9 or later (EDOF/EDR are NOT controllable on Mac OS)

System Requirements

· Intel Core2 Duo @ 2.20 GHz/AMD Athlon X2 Dual Core BE-2400 (2.3GHz)
· 20GB available HD space
· 2GB available RAM or more
· 512MB video card or more
· CD-ROM drive for installation
· USB 2.0

Calibration Function	Yes
Measurement Function	Yes
Unit Dimension	10.5cm (H) x 3.2cm (D)
Unit Weight	138g

Gallery



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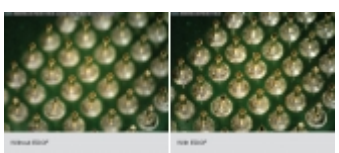

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Watch

Ply Metal

Information about working distance and field of view

M	WD	FOV (x)	FOV (y)	DOF
10	136.0	37.8	28.3	
20	60.2	19.5	14.6	2.5
30	33.5	13.0	9.7	1.8
40	20.9	9.8	7.3	1.5
50	13.9	7.8	5.8	
60	9.7	6.5	4.8	
70	7.1	5.6	4.2	1.0
80	5.5	4.9	3.6	
90	4.5	4.3	3.2	
100	4.1	3.9	2.9	
110	4.0	3.6	2.7	
120	4.1	3.3	2.4	
130	4.5	3.0	2.2	
140	5.0	2.8	2.1	
150	5.6	2.6	1.9	
160	6.3	2.4	1.8	
170	7.1	2.3	1.7	
180	8.0	2.2	1.6	
190	8.9	2.1	1.5	
200	9.9	2.0	1.5	
210	10.9	1.9	1.4	
220	11.9	1.8	1.3	0.1

M = magnification rate WD = working distance (without front cap) FOV = field of view DOF= depth of field Unit = mm