AM73915MZT

The Dino-Lite Edge 3.0 AM73915MZT, an all-in-one device together with USB 3.0 connecting capability, is well-suited for most professional applications within 10-220x magnification. Inheriting advantages from Edge 3.0 series, the AM73915MZT provides fluid and uncompressed images but added with sophisticated EDOF/EDR, AMR and FLC functionalities, making it one of the most versatile devices of Dino-Lite.

High-Speed transmission
Through the use of USB 3.0 interface, the device is capable to obtain smooth and high-quality image at up to 15 FPS at 2560x1920 or 45 FPS at 1280x960.

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
The advanced CMOS image sensor allows to transmit sharp and crisp image with resolution up to 2560x1920 without compression.

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.

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.

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.

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

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.

Model	AM73915MZT Dino-Lite Edge 3.0
Interface	USB 3.0
Product Resolution	5M pixels (2560x1920)
Magnification	10x~220x
Frame Rate	15fps at 5MP, YUY2 (USB 3.0) 45fps at 1.3MP, YUY2 (USB 3.0) 15fps at 1.3MP, YUY2 (USB 2.0)
Lighting	8 white LEDs
Microtouch	Yes
Operating System Supported	Windows 10, 8, 7 Mac OS 10.9 or later (EDOF/EDR are NOT controllable on Mac OS)
System Requirements	· Intel® Core™ i5 3.2GHz · 20GB available HD space · 8GB available RAM or more · 2GB video card or more · CD-ROM drive for installation · USB 3.0 with intel chipset
Calibration Function	Yes
Measurement Function	Yes
Unit Dimension	11.9cm (H) x 3.3cm (D)
Unit Weight	110g

Interchangeable front caps

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

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

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

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

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

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

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

Information about working distance and field of view

M	WD	FOV (x)	FOV (y)	DOF
10	136	37.8	28.3	
20	60.2	19.5	14.6	2.5
30	33.5	13	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
80	5.5	4.9	3.6	
90	4.5	4.3	3.2	
100	4.1	3.9	2.9	
110	4	3.6	2.7	
120	4.1	3.3	2.4	
130	4.5	3	2.2	
140	5	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	2.2	1.6	
190	8.9	2.1	1.5	
200	9.9	2	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

Without EDOF

With EDOF

Without EDOF

With EDOF

Without EDR

With EDR