

## **AM8917MZT**

### **Dino-Lite Edge<sup>PLUS</sup>**



Pushing the limits of handheld digital microscopy, the 8-megapixel AM8917MZT is a high-resolution digital microscope capable of revealing the minute details of the target. The microscope also delivers outstanding color fidelity, enhancing the imaging experience with detailed and natural-looking results. Ready to perform a wide range of tasks, AM8917MZT offers a polarizer as well as DPQ, EDOF, EDR, AMR, and eFLC.

### **Overview**

#### **High Optical Resolution**

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

#### **8.0 Megapixel**

The 8.0-megapixel sensor captures a large field of view with a 16:9 aspect ratio and delivers natural-looking colors and enhanced image contrast at a resolution of up to 3840 x 2160.

#### **Enhanced Flexible LED Control (eFLC)**

Improving FLC capabilities, eFLC can adjust the light intensity on two assigned groups of LED quadrants, each with 32-level light intensity adjustment.

#### **Adjustable Polarizer**

The built-in adjustable polarizer removes unwanted reflection or glare from the object's surface for better contrast.

#### **Depth Acquisition (DPQ)**

The delicate focus control of this model allows for the acquisition of more accurate depth information.

### **Extended Depth of Field (EDOF)**

Viewing rough surfaces with height ranges out of depth of focus, the EDOF can take several images at different focuses 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)**

The AMR feature automatically detects the magnification power in real time, improving measurement efficiency, easing magnification readings, and minimizing input errors in measurement tasks.

### **Robust Metal Housing**

The metal housing made of anodized aluminum alloy offers compelling advantages of protection and endurance. The anodized alloy provides extra protection from electromagnetic interference.

### **Information about working distance and field of view**

<b>M</b>	<b>WD</b>	<b>FOV (x)</b>	<b>FOV (y)</b>	<b>DOF</b>
10	142.6	60.69	34.14	26.01
20	60.1	30.35	17.07	7.01
30	33.6	20.23	11.38	3.34
40	21.0	15.17	8.53	2.01
50	14.0	12.14	6.83	1.37
60	9.8	10.11	5.69	1.01
70	7.3	8.67	4.88	0.78
80	5.7	7.59	4.27	0.63
90	4.8	6.74	3.79	0.52
100	4.3	6.07	3.41	0.44
110	4.2	5.52	3.10	0.38
120	4.3	5.06	2.85	0.34
130	4.7	4.67	2.63	0.31
140	5.2	4.34	2.44	0.28
150	5.8	4.05	2.28	0.26
160	6.5	3.79	2.13	0.24
170	7.3	3.57	2.01	0.22
180	8.1	3.37	1.90	0.20

190	9.1	3.20	1.80	0.19
200	10.0	3.03	1.71	0.18
210	11.0	2.89	1.63	0.17
220	12.1	2.76	1.55	0.16

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

## **Specification**

<b>Model</b>	AM8917MZT
<b>Series</b>	Dino-Lite Edge <sup>PLUS</sup>
<b>Interface</b>	USB 2.0
<b>Resolution</b>	8.0 Megapixel (3840 x 2160)
<b>Magnification</b>	10x ~ 220x (Magnifications below 25x may produce images with dark edges for 8.0 MP and 5.0 MP resolution.)
<b>Working Distance</b>	142.6 ~ 12.1 mm
<b>Frame Rate</b>	10 fps at 8.0 MP, MJPEG 25 fps at 2.0 MP, MJPEG
<b>System Requirements</b>	CPU: 2.9 GHz dual-core Intel Core i5 equivalent or greater RAM: 4 GB or more HD: 150 MB available space or more
<b>Operating System</b>	Windows 10/11
<b>Saving Format</b>	Image: DinoCapture 2.0: BMP, GIF, PNG, MNG, TIF, TGA, PCX, WBMP, JP2, JPC, JPG, PGX, RAS, PNM  Video: DinoCapture 2.0: WMV, FLV, SWF
<b>Measurement Function</b>	Yes
<b>Calibration Function</b>	Yes
<b>Microtouch</b>	Yes

<b>Scroll Lock</b>	Yes
<b>Illumination</b>	8 white LEDs
<b>Included Front Caps</b>	N3C-C (Close Cap) N3C-D (Diffuser Cap) N3C-D2 (Opal Diffuser Cap) N3C-E (Extended Open Cap) N3C-L (Long Cap) N3C-O (Open Cap) N3C-S (Sidelight Cap)
<b>Cable Type</b>	Type-C to Type-C cable (detachable, w/screw lock) Type-C to Type-A cable (detachable, w/screw lock)
<b>Cable Length</b>	Approx. 1.8 m
<b>Unit Dimension</b>	130 mm (H) x 33 mm (D)
<b>Unit Weight</b>	Approx. 120 g