

# AM7115MZTW

**Product Code:** AM7115MZTL



## Short Description

5 Megapixel resolution  
Robust metal housing  
Wide Field of View (WFOV)  
Wide Field of View (WFOV)  
Flexible LED Control (FLC)

## Description

Designed for macro-view observation, the 5MP Edge AM7115MZTW provides wide field-of-view while offering large depth-of-field within a magnification range of 10X-50X. With astonishing image quality and illumination flexibility inherited from 5MP Edge series, the AM7115MZTW can be accommodated to a wide range of demanding imaging tasks.



USB 2.0



Flexible LED  
Control FLC



Measurement  
functionality



Metal  
housing



5 megapixel  
2592 x 1944



8 White LEDs  
switchable



Magnification  
lock



Adjustable  
~10-50x



Polarizer  
anti-reflection



Exchangeable  
cap

The superior optics adopted in the Edge series reveals the finest details, answering the needs of the most demanding microscopy applications. Thanks to the low loss MJPEG compression, the advanced CMOS image sensor allows to transmit fluid and crisp image with resolution up to 2592x1944. Wide Field of View (WFOV) This significant feature is specially designed to provide large FOV at a reasonable working distance while keeping crisp image over the whole image for macro-view observation.

### The main features of the AM7115MZTW are:

- 5 Megapixel Edge sensor
- Wide Field of View (WFOV)
- 10X~50X magnification
- Integrated polarizer
- Aluminum housing
- Flexible LED Control (FLC)
- Extensive measurement functions
- Calibration
- Exchangeable front caps
- And more...

### Working distance/field of view/depth of field

| MAGNIFICATION RATE                | WORKING DISTANCE* | FIELD OF VIEW(X)    | FIELD OF VIEW(Y) | DEPTH OF FIELD |
|-----------------------------------|-------------------|---------------------|------------------|----------------|
| Listed values may differ slightly |                   | * Without front cap |                  | Unit = mm      |
| T Zone                            |                   |                     |                  |                |
| 50                                | 14                | 9                   | 7                | 3              |
| 40                                | 42                | 11                  | 9                | 5              |
| 30                                | 64                | 15                  | 12               | 9              |
| 20                                | 119               | 23                  | 19               | 21             |
| 15                                | 182               | 30                  | 24               | 39             |

MAGNIFICATION RATE    WORKING DISTANCE    FIELD OF VIEW(X)    FIELD OF VIEW(Y)    DEPTH OF FIELD

| ON RATE                                  | DISTANCE* | VIEW(X)                    | VIEW(Y) | FIELD            |
|------------------------------------------|-----------|----------------------------|---------|------------------|
| <b>Listed values may differ slightly</b> |           | <b>* Without front cap</b> |         | <b>Unit = mm</b> |
|                                          |           | <b>W Zone</b>              |         |                  |
| 30                                       | 11        | 14                         | 11      | 6                |
| 20                                       | 25        | 25                         | 20      | 13               |
| 15                                       | 39        | 31                         | 25      | 22               |
| 10                                       | 68        | 41                         | 33      | 51               |
| 5                                        | 156       | 98                         | 78      | 250              |

## Specification

| Lighting                          |                                                                       |
|-----------------------------------|-----------------------------------------------------------------------|
| Light/ LED type                   | White                                                                 |
| Number of LEDs                    | 8                                                                     |
| LED on/off switchable:            | Yes                                                                   |
| Infrared filter                   | IR cut-filter >650 nm                                                 |
| Diffuser available                | Yes (N3C-D included)                                                  |
| Emission filter                   | No                                                                    |
| Polarizer                         | Yes, linear                                                           |
| Optics                            |                                                                       |
| Magnification                     | 10x ~ 50x                                                             |
| Macro zoom                        | No                                                                    |
| Working distance                  | Standard                                                              |
| Lens type                         | Glass with anti-reflection coating                                    |
| Sensor                            |                                                                       |
| Sensor type                       | CMOS                                                                  |
| Resolution                        | 5.0 Megapixel (2592x1944)                                             |
| Maximum frame rate                | 30 fps                                                                |
| Compatibility                     |                                                                       |
| Interface                         | USB 2.0                                                               |
| Operating system                  | Windows 7, 8, 10 & 11, MacOS 10.9 and up                              |
| Software                          | DinoCapture 2.0 (Windows), DinoXcope (Mac OS)                         |
| Supported image formats (Windows) | BMP, GIF, PNG, JPG, TIF, RAS, PNM, TGA, PCX, MNG, WBMP, JP2, JPC, PGX |
| Supported video formats (Windows) | WMV, FLV, SWF                                                         |
| Supported image formats (MacOS)   | JPEG, PNG                                                             |
| Supported video formats (MacOS)   | MOV (max 1.3MP)                                                       |

|                      |                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging standards    | DirectShow, UVC                                                                                                                                                                              |
| Wifi                 | Wireless-ready, requires the WF-10 WiFi streamer (optional)                                                                                                                                  |
| <b>Housing</b>       |                                                                                                                                                                                              |
| Housing material     | Metal housing                                                                                                                                                                                |
| Magnification lock   | Yes                                                                                                                                                                                          |
| Dimensions           | 10.5cm (L) x 3.2cm (D)                                                                                                                                                                       |
| Weight               | 135gr                                                                                                                                                                                        |
| Cable length         | 1.8m                                                                                                                                                                                         |
| <b>Features</b>      |                                                                                                                                                                                              |
| Special feature      | Flexible LED Control (FLC)                                                                                                                                                                   |
| Measurement          | Yes                                                                                                                                                                                          |
| Calibration          | Yes                                                                                                                                                                                          |
| Microtouch sensor    | Yes                                                                                                                                                                                          |
| ESD safe             | Yes                                                                                                                                                                                          |
| <b>Information</b>   |                                                                                                                                                                                              |
| Package contents     | Microscope, carry pouch, software CD, calibration target, user manual, N3C-O- Open cap, N3C-C- Closed cap, N3C-D- diffuser cap, N3C-E- extension cap, N3C-L- Long cap, N3C-S- Side light cap |
| Warranty information | 2 years European warranty                                                                                                                                                                    |
| Regulatory approval  | CE, FCC, ROHS                                                                                                                                                                                |
| Price range          | €900,00 - €1100,00                                                                                                                                                                           |

## Product Gallery