

# AF7915MZTL

**Brand:**

**Product Code:** AF7915MZTL



## Short Description

- 5 Megapixel resolution
- Extended Depth of Field (EDOF)
- Extended Dynamic Range (EDR)
- Flexible LED Control (FLC)
- 10-140x magnification
- Long working distance (LWD)
- Wireless Ready

## Description

The AF7915MZTL is part of the Long Working Distance (LWD) range and with its Long Working Distance and magnification range from 10 - 140x, it is suitable for a wide range of applications where extra distance to the object or a larger field of view is required.



USB 2.0



Continuous  
~10x - 140x



5 megapixel  
2592 x 1944



Long working  
distance



Metal  
housing



Extended  
Depth Of Field  
EDOF



With the Extended Dynamic Range (EDR) feature, the details of darker or brighter areas within the object can be revealed by stacking images at different exposure levels. The Extended Depth of Field (EDOF) feature automatically stacks images at different focus level to improve the depth of field on rough or uneven surfaces. The AMR function is of particular importance when the measurement functions are frequently used. Because of the built-in polarization filter this model is ideal when working with shiny or reflective objects such as metal, plastic, glass, jewelry, electronics, etc.

**The main features of the AF7915MZTL are:**

- 5 Megapixel Edge sensor
  - Extended Depth of Field (EDOF)
  - Extended Dynamic Range (EDR)
  - 10-140x magnification
  - Long working distance
  - Automatic Magnification Reading (AMR)
  - Adjustable polarizer
  - Flexible LED Control (FLC)
- Wireless Ready
- And more...

*(\*EDOF/EDR only functions under Windows OS)*

**Optical Data Table**

| MAGNIFICATION RATE                       | WORKING DISTANCE*         | FIELD OF VIEW(X) | FIELD OF VIEW(Y) | DEPTH OF FIELD   |
|--|---------------------------|------------------|------------------|------------------|
| <b>Listed values may differ slightly</b> | <b>*Without front cap</b> |                  |                  | <b>Unit = mm</b> |
| 10                                       | 234.5                     | 39.0             | 29.2             | 12.0             |

|     |       |      |      |      |
|-----|-------|------|------|------|
| 20  | 112.5 | 19.5 | 14.6 | 4.5  |
| 30  | 72.5  | 13.0 | 9.7  | 3.1  |
| 40  | 54.5  | 9.8  | 7.3  | 1.8  |
| 50  | 43.5  | 7.8  | 5.8  | 1.2  |
| 60  | 37.5  | 6.5  | 4.8  | 0.9  |
| 70  | 33.7  | 5.6  | 4.2  | 0.6  |
| 80  | 31.3  | 4.9  | 3.6  | 0.5  |
| 90  | 29.9  | 4.3  | 3.2  | 0.37 |
| 100 | 29.2  | 3.9  | 2.9  | 0.28 |
| 110 | 29.1  | 3.5  | 2.6  | 0.22 |
| 120 | 29.3  | 3.3  | 2.4  | 0.17 |
| 130 | 29.8  | 3.0  | 2.2  | 0.12 |
| 140 | 30.5  | 2.8  | 2.1  | 0.09 |

## 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          | 10-140x                                       |
| Macro zoom             | No  |
| Working distance       | Long  |
| Lens type              | Glass with anti-reflection coating            |
| Sensor                 |   |
| Sensor type            | CMOS  |
| Resolution             | 5 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-20 (optional)  |
| <b>Housing</b>                    |  |
| Housing material                  | Metal housing  |
| Dimensions                        | 11.5cm (L) x 3.4cm (D)   |
| Weight                            | 97g  |
| Cable length                      | 1.8m   |
| <b>Features</b>                   |  |
| Special feature                   | Automatic Magnification Reading (AMR), Extended Dynamic Range (EDR), Extended Depth of Field (EDOF), 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                       | €1100,00 - €1300,00  |