

# AF7115MZTL

**Product Code:** AF7115MZTL



## Short Description

High Optical Resolution

5.0 Megapixels

Long Working Distance (LWD) Optics

Flexible LED Control (FLC)

Adjustable Polarizer

Adaptable Interface

Robust Metal Housing

## Description

AF7115MZTL is a long working distance 5-megapixel digital microscope that delivers high-resolution images at a magnification range of 10x ~ 140x. This model features Flexible LED Control (FLC) for illumination adjustability and a polarizer for removing unwanted reflections. AF7115MZTL is compatible with WF-20 for wireless connectivity.



USB 2.0



Flexible LED  
Control FLC



Continuous  
~10x - 140x



Measurement  
functionality



Metal  
housing



5 megapixel  
2592 x 1944



8 White LEDs  
switchable



Magnification  
lock



Polarizer  
anti-reflection



Long working  
distance



Exchangeable  
cap



Wireless  
Ready

The AF7115MZTL 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.

The extra working distance and larger field of view make this model an ideal solution for tasks such as repair, rework or assembly or for working with bulky or fragile objects that cannot be touched. 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 AF7115MZTL are:

- 5 Megapixel Edge sensor
- Long Working Distance (LWD)
- 10-140x magnification
- Integrated polarizer
- Aluminum housing
- Flexible LED Control (FLC)
- Extensive measurement functions
- Calibration
- Exchangeable front caps
- Wireless Ready
- And more...

### Optical Data Table

| 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      |

|     |       |      |      |      |
|-----|-------|------|------|------|
| 10  | 237.5 | 39.6 | 29.7 | 25.8 |
| 20  | 115.3 | 19.8 | 14.8 | 6.9  |
| 30  | 75.9  | 13.2 | 9.9  | 3.3  |
| 40  | 57.3  | 9.9  | 7.4  | 2.2  |
| 50  | 47.0  | 7.9  | 5.9  | 1.6  |
| 60  | 40.8  | 6.6  | 4.9  | 1.2  |
| 70  | 36.9  | 5.7  | 4.2  | 1.0  |
| 80  | 34.6  | 4.9  | 3.7  | 0.8  |
| 90  | 33.2  | 4.4  | 3.3  | 0.7  |
| 100 | 32.6  | 4.0  | 3.0  | 0.6  |
| 110 | 32.4  | 3.6  | 2.7  | 0.5  |
| 120 | 32.6  | 3.3  | 2.5  | 0.5  |
| 130 | 33.1  | 3.0  | 2.3  | 0.4  |
| 140 | 33.8  | 2.8  | 2.1  | 0.4  |

## 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 ~ 140x                                                            |
| Macro zoom                        | No                                                                    |
| Working distance                  | Long                                                                  |
| 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           | WMV, FLV, SWF                                                         |

|                                 |                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (Windows)                       |                                                                                                                                                                                              |
| 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)                                                                                                                                                |
| Housing                         |                                                                                                                                                                                              |
| Housing material                | Metal housing                                                                                                                                                                                |
| Magnification lock              | Yes                                                                                                                                                                                          |
| Dimensions                      | 11.5cm (L) x 3.4cm (D)                                                                                                                                                                       |
| Weight                          | 97gr                                                                                                                                                                                         |
| Cable length                    | 1.8m                                                                                                                                                                                         |
| Features                        |                                                                                                                                                                                              |
| Special feature                 | Flexible LED Control (FLC)                                                                                                                                                                   |
| Measurement                     | Yes                                                                                                                                                                                          |
| Calibration                     | Yes                                                                                                                                                                                          |
| Microtouch sensor               | Yes                                                                                                                                                                                          |
| ESD safe                        | Yes                                                                                                                                                                                          |
| Information                     |                                                                                                                                                                                              |
| 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                                                                                                                                                                           |