

# AF7115MZT

**Product Code:** AF7115MZT



## Short Description

High Optical Resolution

5.0 Megapixel

Flexible LED Control (FLC)

Adjustable Polarizer

Adaptable Interface

Robust Metal Housing

## Description

AF7115MZT is a 5-megapixel digital microscope offering high-resolution imaging with a 20x ~ 220x magnification. This model has Flexible LED Control (FLC) for maximizing lighting adjustability and a polarizer for reducing unwanted reflections. AF7115MZT is compatible with WF-20, a Wi-Fi streamer.



USB 2.0



Measurement  
functionality



Adjustable  
~20x-220x



Magnification  
lock



Metal  
housing



5 megapixel  
2592 x 1944



The AF7115MZT is part of the universal range and with its standard working distance and wide magnification range from 20 – 220x, it is suitable for a wide range of applications. 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 AF7115MZT are:

- 5 Megapixel Edge sensor
- 20x ~ 220x 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 1 | FIELD OF VIEW(X) | FIELD OF VIEW(y) | DEPTH OF FIELD |
|--------------------|--------------------|------------------|------------------|----------------|
| 10                 | 142.6              | 39.6             | 29.7             | 26.0           |
| 20                 | 60.1               | 19.8             | 14.8             | 7.0            |
| 30                 | 33.6               | 13.2             | 9.9              | 3.3            |
| 40                 | 21.0               | 9.9              | 7.4              | 2.0            |
| 50                 | 14.0               | 7.9              | 5.9              | 1.4            |
| 60                 | 9.8                | 6.6              | 4.9              | 1.0            |
| 70                 | 7.3                | 5.7              | 4.2              | 0.8            |
| 80                 | 5.7                | 4.9              | 3.7              | 0.6            |
| 90                 | 4.8                | 4.4              | 3.3              | 0.5            |
| 100                | 4.3                | 4.0              | 3.0              | 0.4            |
| 110                | 4.2                | 3.6              | 2.7              | 0.4            |
| 120                | 4.3                | 3.3              | 2.5              | 0.3            |
| 130                | 4.7                | 3.0              | 2.3              | 0.3            |

|                                          |      |                            |     |                  |
|------------------------------------------|------|----------------------------|-----|------------------|
| 140                                      | 5.2  | 2.8                        | 2.1 | 0.3              |
| 150                                      | 5.8  | 2.6                        | 2.0 | 0.3              |
| 160                                      | 6.5  | 2.5                        | 1.9 | 0.2              |
| 170                                      | 7.3  | 2.3                        | 1.8 | 0.2              |
| 180                                      | 8.1  | 2.2                        | 1.6 | 0.2              |
| 190                                      | 9.1  | 2.1                        | 1.6 | 0.2              |
| 200                                      | 10.0 | 2.0                        | 1.5 | 0.2              |
| 210                                      | 11.0 | 1.9                        | 1.4 | 0.2              |
| 220                                      | 12.1 | 1.8                        | 1.3 | 0.2              |
| <b>Listed values may differ slightly</b> |      | <b>* Without front cap</b> |     | <b>Unit = mm</b> |

## 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                     | 20x ~ 220x                                                            |
| 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-20 (optional)                                                                                                                                             |
| <b>Housing</b>                    |                                                                                                                                                                                           |
| Housing material                  | Metal housing                                                                                                                                                                             |
| Dimensions                        | 11.5cm (L) x 3.4cm (D)                                                                                                                                                                    |
| Weight                            | 97gr                                                                                                                                                                                      |
| 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-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                                                                                                                                                                        |