

# AM73915MZTL



**Brand:**  
**Product Code:** AM73915MZTL

## Short Description

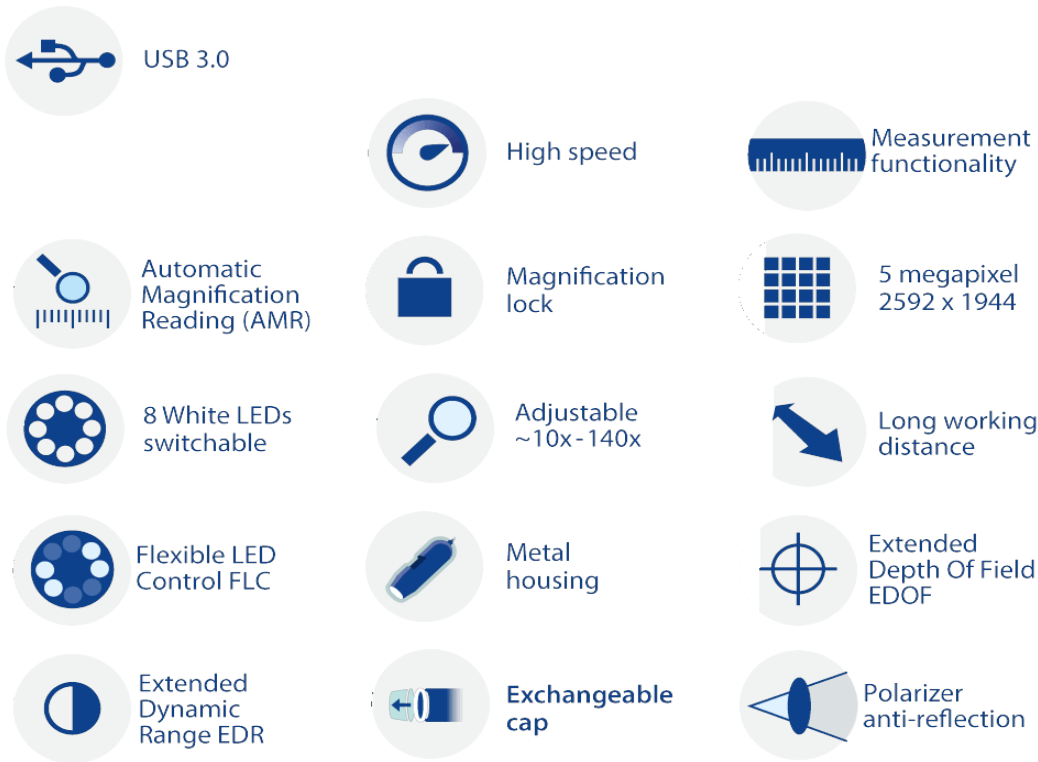
5 Megapixel Edge sensor  
USB 3.0, maximum 45fps  
10-140x magnification  
Long working distance  
Flexible LED Control (FLC)  
Polarizer  
Extended Depth of Field (EDOF)  
Extended Dynamic Range (EDR)  
Automatic Magnification Reading (AMR)

## Description

The Dino-Lite AM73915MZTL is a Long Working Distance model that is part of the High Speed range with USB 3.0 connection. It offers superb uncompressed image quality and color reproduction in a robust, compact and appealing metal housing.

USB 3.0 adds a new transfer mode called "SuperSpeed" (SS) capable of transferring data up to 5Gbits/s (625MB/s). Dino-Lite models with USB 3.0 offer an image transfer speed of up to 45FPS at a 1280 x 960 resolution. SuperSpeed allows you to take advantage of the full power of the Dino-Lite Edge Series optics including improved colour accuracy and image quality.

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EDOF allows users to automatically capture multiple images at different depths and automatically combine them into one clear image. EDR automatically captures and combines multiple images at different exposure levels to produce a final image with greater dynamic range. The AMR function automatically detects and displays the magnification of the Dino-Lite. The magnification is displayed within the Dino-Lite software and stored with the captured picture and simplifies the measuring process.

The AM73915MZTL is one top-level Dino-Lite products available and the most advanced product within the Dino-Lite USB 3.0 range. For professionals who are looking for extended working distance, high speed data transfer, the best available image quality and many advanced features this is the model of choice.

The Dino-Lite AM73915MZTL is a USB 3.0 model with a magnification range of 10x - 140x and a Long Working Distance of up to 24 cm. This model is member of the Dino-Lite Edge family with the latest, cutting-edge optics, an unmatched 5 megapixel sensor and several special features such as the Extended Depth of Field (EDOF), Enhanced Dynamic Range (EDR), Automatic Magnification Reading (AMR), Flexible LED Control (FLC), built-in polarization filter, full metal body, extensive measurement functions, calibration, exchangeable front caps and more.

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

## Optical Data Table

| <b>MAGNIFICATION RATE</b> | <b>WORKING DISTANCE*</b> | <b>FIELD OF VIEW(X)</b> | <b>FIELD OF VIEW(Y)</b> | <b>DEPTH OF FIELD</b> |
|---------------------------|--------------------------|-------------------------|-------------------------|-----------------------|
| <b>10</b>                 | 234.5                    | 39.0                    | 29.2                    | 12.0                  |
| <b>20</b>                 | 112.5                    | 19.5                    | 14.6                    | 4.5                   |
| <b>30</b>                 | 72.5                     | 13.0                    | 9.7                     | 3.1                   |
| <b>40</b>                 | 54.5                     | 9.8                     | 7.3                     | 1.8                   |
| <b>50</b>                 | 43.5                     | 7.8                     | 5.8                     | 1.2                   |
| <b>60</b>                 | 37.5                     | 6.5                     | 4.8                     | 0.9                   |
| <b>70</b>                 | 33.7                     | 5.6                     | 4.2                     | 0.6                   |
| <b>80</b>                 | 31.3                     | 4.9                     | 3.6                     | 0.5                   |
| <b>90</b>                 | 29.9                     | 4.3                     | 3.2                     | 0.37                  |
| <b>100</b>                | 29.2                     | 3.9                     | 2.9                     | 0.28                  |
| <b>110</b>                | 29.1                     | 3.5                     | 2.6                     | 0.22                  |
| <b>120</b>                | 29.3                     | 3.3                     | 2.4                     | 0.17                  |
| <b>130</b>                | 29.8                     | 3.0                     | 2.2                     | 0.12                  |
| <b>140</b>                | 30.5                     | 2.8                     | 2.1                     | 0.09                  |

Listed values may differ slightly

\*Without front cap

Unit = mm

## Specification

|                        |                                    |
|------------------------|------------------------------------|
| <b>Lighting</b>        |                                    |
| 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                        |
| <b>Optics</b>          |                                    |
| Magnification          | 10x ~ 140x                         |
| Macro zoom             | No                                 |
| Working distance       | Long                               |
| Lens type              | Glass with anti-reflection coating |
| <b>Sensor</b>          |                                    |
| Sensor type            | CMOS                               |
| Resolution             | 5 Megapixel (2592x1944)            |
| Maximum frame rate     | 45fps (max 20fps video recording)  |

| Compatibility                     |   |
|-----------------------------------|---|
| Interface                         | USB 3.0, Cable included**   |
| 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                              | No  |
| Housing                           |   |
| Housing material                  | Metal housing   |
| Magnification lock                | Yes   |
| Dimensions                        | 11.9cm (L) x 3.3cm (H)  |
| Weight                            | 110g  |
| Cable length                      | 1.8m  |
| Features                          |   |
| 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   |
| Information                       |   |
| Package contents                  | Microscope, carry pouch, software CD, user manual, quick guide, calibration target, front cover 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                       | €1300,00 - €1500,00   |
| Note                              | **Dino-Lite USB 3.0 models use a custom USB-A and USB-C cable that is specifically designed for Dino-Lite   |

## Product Gallery

