

# AM73915MZT



**Marca:** Dino-Lite

**Código del producto:** AM73915MZT

## Short Description

5 Megapixel Edge sensor

USB 3.0, maximum 45fps

20-220x magnification

Flexible LED Control (FLC)

Polarizer

Extended Depth of Field (EDOF)

Extended Dynamic Range (EDR)

Automatic Magnification Reading (AMR)

## Descripción

The Dino-Lite AM73915MZT 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 AM73915MZT is one of the most high-end Dino-Lite products available and the top-level product within the Dino-Lite USB 3.0 range. For professionals who are looking for high speed data transfer, the best available image quality and are looking for advanced features this is the model of choice.

The Dino-Lite AM73915MZT is a USB 3.0 model with a magnification range of 10x - 220x and a standard working distance of up to 6 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

| MAGNIFICATION RATE                | WORKING DISTANCE   | FIELD OF VIEW(X) | FIELD OF VIEW(Y) | DEPTH OF FIELD |
|-----------------------------------|--------------------|------------------|------------------|----------------|
| 10                                | 142.4              | 37.8             | 28.3             | 19.7           |
| 20                                | 59.5               | 19.5             | 14.6             | 5.4            |
| 30                                | 32.9               | 13.0             | 9.7              | 2.6            |
| 40                                | 20.2               | 9.8              | 7.3              | 1.6            |
| 50                                | 13.2               | 7.8              | 5.8              | 1.1            |
| 60                                | 9.0                | 6.5              | 4.8              | 0.8            |
| 70                                | 6.4                | 5.6              | 4.2              | 0.6            |
| 80                                | 4.8                | 4.9              | 3.6              | 0.5            |
| 90                                | 3.9                | 4.3              | 3.2              | 0.42           |
| 100                               | 3.5                | 3.9              | 2.9              | 0.36           |
| 110                               | 3.3                | 3.6              | 2.7              | 0.31           |
| 120                               | 3.5                | 3.3              | 2.4              | 0.27           |
| 130                               | 3.8                | 3.0              | 2.2              | 0.24           |
| 140                               | 4.3                | 2.8              | 2.1              | 0.22           |
| 150                               | 4.9                | 2.6              | 1.9              | 0.2            |
| 160                               | 5.6                | 2.4              | 1.8              | 0.18           |
| 170                               | 6.4                | 2.3              | 1.7              | 0.17           |
| 180                               | 7.3                | 2.2              | 1.6              | 0.15           |
| 190                               | 8.2                | 2.1              | 1.5              | 0.14           |
| 200                               | 9.2                | 2.0              | 1.5              | 0.13           |
| 210                               | 10.2               | 1.9              | 1.4              | 0.13           |
| 220                               | 11.3               | 1.8              | 1.3              | 0.12           |
| Listed values may differ slightly | *Without front cap |                  |                  | Unit = mm      |

## Especificación

| 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          | 10-220x               |
| Macro zoom             | No                    |

|                                   |                                                                                                                                                                                                                          |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Working distance                  | Standard                                                                                                                                                                                                                 |
| Lens type                         | Glass with anti-reflection coating                                                                                                                                                                                       |
| Sensor                            |                                                                                                                                                                                                                          |
| Sensor type                       | CMOS                                                                                                                                                                                                                     |
| Resolution                        | 5 Megapixel (2592x1944)                                                                                                                                                                                                  |
| Maximum frame rate                | 45fps (max 20fps video recording)                                                                                                                                                                                        |
| Compatibility                     |                                                                                                                                                                                                                          |
| Interface                         | USB 3.0, Cable included**                                                                                                                                                                                                |
| Operating system                  | Windows7, 8, 10 & 11, MacOS 10.9 and up                                                                                                                                                                                  |
| Included 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<br>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

