

# AM4517MT-DFRW



**Marca:**

**Código del producto:** AM4517MT-DFRW

## Short Description

1.3 Megapixel Edge sensor

High Sensitivity Sensor

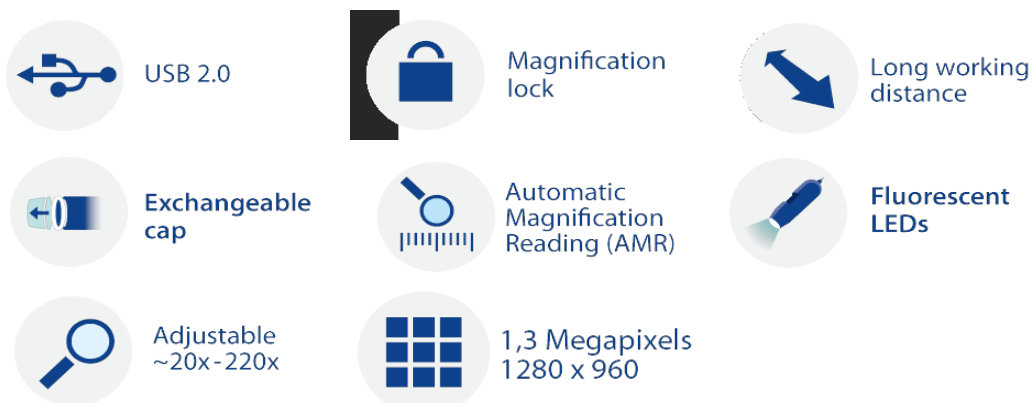
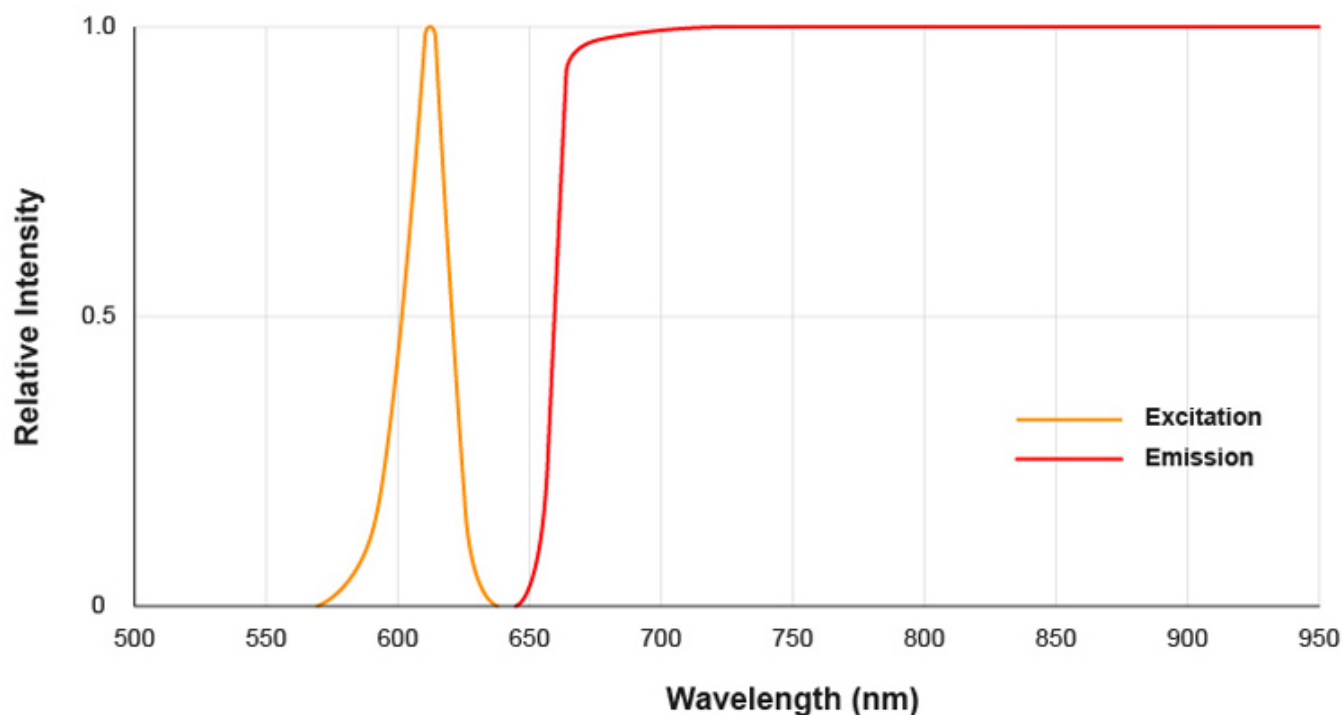
Fluorescence

Automatic Magnification Readout (AMR)

Robust Metal Housing

## Descripción

Detect deep-red or near-infrared (NIR) fluorescence emissions with the AM4517MT-DFRW high-sensitivity 20x ~ 220x digital microscope. Equipped with 620 nm excitation lights and a 655 nm ~ 950 nm emission filter, it captures emissions from fluorescent probes such as CY5, Alexa Fluor 647, and Qdot 655. This model features AMR to ease measurements.



## The main features of the AM4517MT-DFRW are:

- 1.3 Megapixel
- High Sensitivity Sensor
- Wide-Ranging Fluorescence Detection
- Switchable White Light
- Automatic Magnification Readout (AMR)
- Robust Metal Housing

## Optical Data Table

|               |         |                  |          |                |
|---------------|---------|------------------|----------|----------------|
| Magnification | Working | Field of View(x) | Field of | Depth of Field |
|---------------|---------|------------------|----------|----------------|

| Listed values<br>may differ<br>slightly | Distance *             |       | View(y) | Unit = mm |
|-----------------------------------------|------------------------|-------|---------|-----------|
|                                         | * Without front<br>cap |       |         |           |
| 20x                                     | 60.4                   | 19.53 | 14.65   | 6.34      |
| 30x                                     | 33.7                   | 13.02 | 9.77    | 3.03      |
| 40x                                     | 21.1                   | 9.77  | 7.33    | 1.82      |
| 50x                                     | 14.1                   | 7.81  | 5.86    | 1.24      |
| 60x                                     | 9.9                    | 6.51  | 4.88    | 0.91      |
| 70x                                     | 7.3                    | 5.58  | 4.19    | 0.71      |
| 80x                                     | 5.7                    | 4.88  | 3.66    | 0.57      |
| 90x                                     | 4.8                    | 4.34  | 3.26    | 0.47      |
| 100x                                    | 4.3                    | 3.91  | 2.93    | 0.40      |
| 110x                                    | 4.2                    | 3.55  | 2.66    | 0.35      |
| 120x                                    | 4.3                    | 3.26  | 2.44    | 0.31      |
| 130x                                    | 4.7                    | 3.01  | 2.25    | 0.27      |
| 140x                                    | 5.2                    | 2.79  | 2.09    | 0.24      |
| 150x                                    | 5.8                    | 2.60  | 1.95    | 0.22      |
| 160x                                    | 6.5                    | 2.44  | 1.83    | 0.20      |
| 170x                                    | 7.3                    | 2.30  | 1.72    | 0.18      |
| 180x                                    | 8.2                    | 2.17  | 1.63    | 0.17      |
| 190x                                    | 9.1                    | 2.06  | 1.54    | 0.16      |
| 200x                                    | 10.1                   | 1.95  | 1.47    | 0.15      |
| 210x                                    | 11.1                   | 1.86  | 1.40    | 0.14      |
| 220x                                    | 12.1                   | 1.78  | 1.33    | 0.13      |

## Especificación

| Lighting               |                                    |
|------------------------|------------------------------------|
| Light/ LED type        | 620 nm excitation + white          |
| Number of LEDs         | 7 FL + 1 White                     |
| LED on/off switchable: | Yes                                |
| Infrared filter        | No                                 |
| Diffuser available     | No                                 |
| Emission filter        | 655 nm ~ 950 nm                    |
| Polarizer              | No                                 |
| Fluorophores           | Y5, Alexa Fluor 647, and Qdot 655  |
| Optics                 |                                    |
| Magnification          | 20x ~ 220x                         |
| Macro zoom             | No                                 |
| Working distance       | Standard                           |
| Lens type              | Glass with anti-reflection coating |

| Sensor                            |                                                                                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor type                       | CMOS                                                                                                                                                         |
| Resolution                        | 1.3 Megapixel (1280x960)                                                                                                                                     |
| 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                                                                                                                                                          |
| Housing                           |                                                                                                                                                              |
| Housing material                  | Metal housing                                                                                                                                                |
| Magnification lock                | Yes                                                                                                                                                          |
| Dimensions                        | 104 mm (H) x 32 mm (D)                                                                                                                                       |
| Weight                            | 90g                                                                                                                                                          |
| Cable length                      | 1.8m                                                                                                                                                         |
| Features                          |                                                                                                                                                              |
| Special feature                   | Automatic Magnification Readout (AMR)                                                                                                                        |
| Measurement                       | Yes                                                                                                                                                          |
| Calibration                       | Yes                                                                                                                                                          |
| Microtouch sensor                 | Yes                                                                                                                                                          |
| Information                       |                                                                                                                                                              |
| Package contents                  | Microscope, carry pouch, calibration target, user manual, N3C-C (Close Cap) N3C-EB (Extended Open Black Cap) N3C-LB (Black Long Cap) N3C-OB (Black Open Cap) |
| Warranty information              | 2 years European warranty                                                                                                                                    |
| Regulatory approval:              | CE, FCC, ROHS                                                                                                                                                |
| Price range                       | €1100,00 - €1300,00                                                                                                                                          |