

# AM4517MT-RFCW



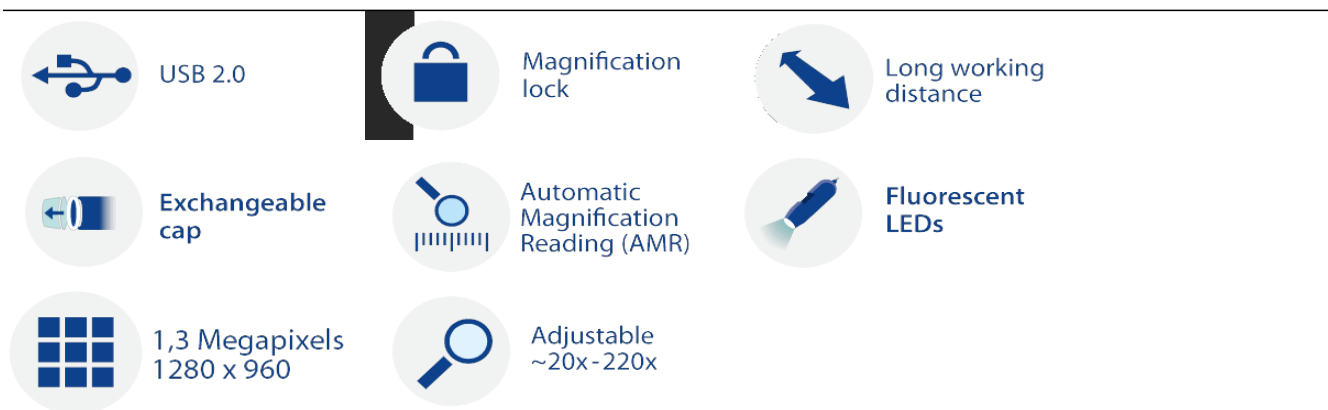
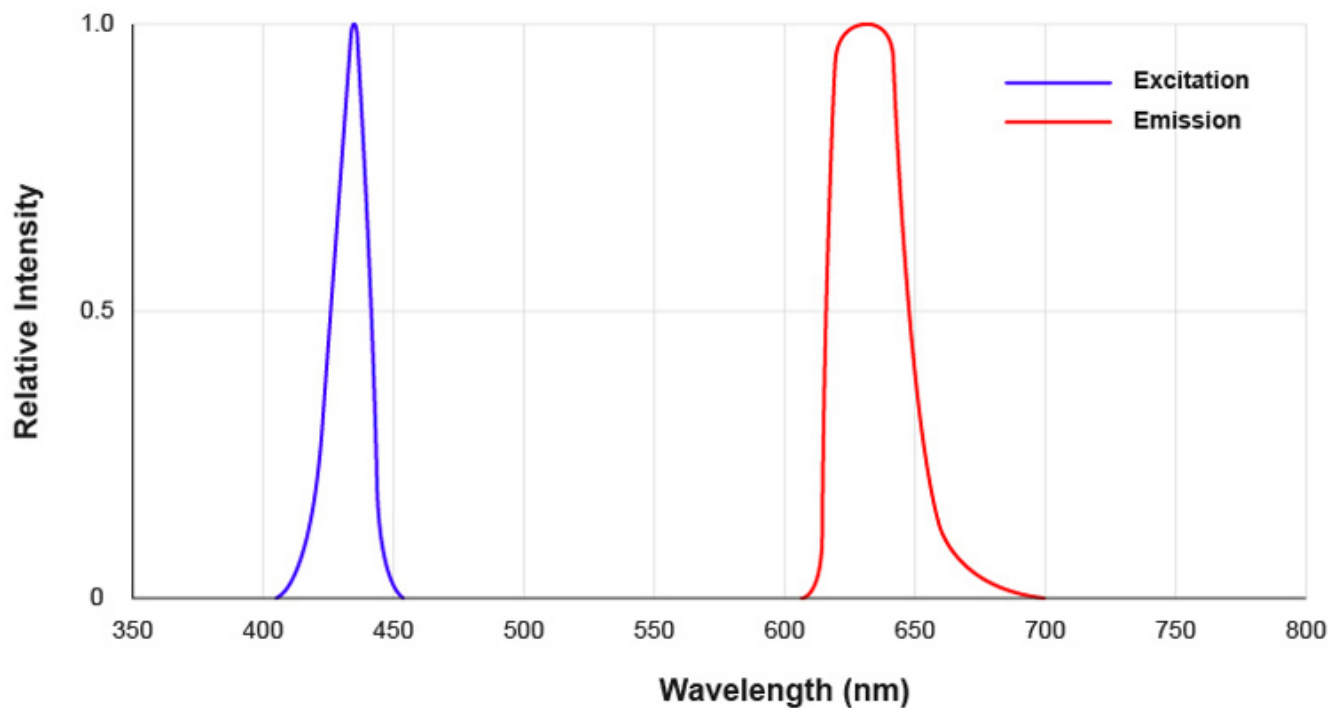
**Product Code:** AM4517MT-RFCW

## Short Description

- 1.3 Megapixel Edge sensor
- High Sensitivity Sensor
- Large Stokes Shift (LSS) Red Fluorescence
- Automatic Magnification Readout (AMR)
- Robust Metal Housing

## Description

Detect red fluorescence excited by blue light with the AM4517MT-RFCW high-sensitivity 20x ~ 220x digital microscope. It features 435 nm excitation lights and a 615 nm ~ 650 nm emission filter, enabling visualization of fluorescence probes with large Stokes shifts, such as mKeima, FuraRed, and LSSmKate1. This model features AMR to ease measurements.



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

- 1.3 Megapixel
- High Sensitivity Sensor
- —
- —
- Automatic Magnification Readout (AMR)
- Robust Metal Housing

### Optical Data Table

| Magnification (Mag) | Working Distance (WD) * | Field of View (FOV) x | Field of View (FOV) y | Depth of Field (DOF) |
|---------------------|-------------------------|-----------------------|-----------------------|----------------------|
| Listed values       | * Without front         |                       |                       | Unit = mm            |

**may differ  
slightly**

**cap**

|      |      |       |       |      |
|------|------|-------|-------|------|
| 20x  | 59.8 | 19.53 | 14.65 | 7.05 |
| 30x  | 33.1 | 13.02 | 9.77  | 3.36 |
| 40x  | 20.5 | 9.77  | 7.32  | 2.02 |
| 50x  | 13.4 | 7.81  | 5.86  | 1.38 |
| 60x  | 9.2  | 6.51  | 4.88  | 1.01 |
| 70x  | 6.7  | 5.58  | 4.19  | 0.79 |
| 80x  | 5.1  | 4.88  | 3.66  | 0.64 |
| 90x  | 4.1  | 4.34  | 3.26  | 0.53 |
| 100x | 3.7  | 3.91  | 2.93  | 0.45 |
| 110x | 3.6  | 3.55  | 2.66  | 0.39 |
| 120x | 3.7  | 3.26  | 2.44  | 0.34 |
| 130x | 4.1  | 3.01  | 2.25  | 0.30 |
| 140x | 4.5  | 2.79  | 2.09  | 0.27 |
| 150x | 5.2  | 2.60  | 1.95  | 0.25 |
| 160x | 5.9  | 2.44  | 1.83  | 0.22 |
| 170x | 6.7  | 2.30  | 1.72  | 0.21 |
| 180x | 7.5  | 2.17  | 1.63  | 0.19 |
| 190x | 8.5  | 2.06  | 1.54  | 0.18 |
| 200x | 9.4  | 1.95  | 1.46  | 0.16 |
| 210x | 10.5 | 1.86  | 1.40  | 0.15 |
| 220x | 11.5 | 1.78  | 1.33  | 0.14 |

## Specification

| Lighting               |                                    |
|------------------------|------------------------------------|
| Light/ LED type        | 435 nm excitation                  |
| Number of LEDs         | 7 FL + 1 White                     |
| LED on/off switchable: | Yes                                |
| Infrared filter        | No                                 |
| Diffuser available     | No                                 |
| Emission filter        | 615 nm ~ 650 nm                    |
| Polarizer              | No                                 |
| Fluorophores           | mKeima, FuraRed, and LSSmKate1     |
| Optics                 |                                    |
| Magnification          | 20x ~ 220x                         |
| 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                       | €1200,00 - €1400,00                                                                                                                                          |