

AM4517MT-RFCW



Brand:

Product Code: AM4517MT-RFCW

Short Description

1.3 Megapixel Edge sensor

High Sensitivity Sensor

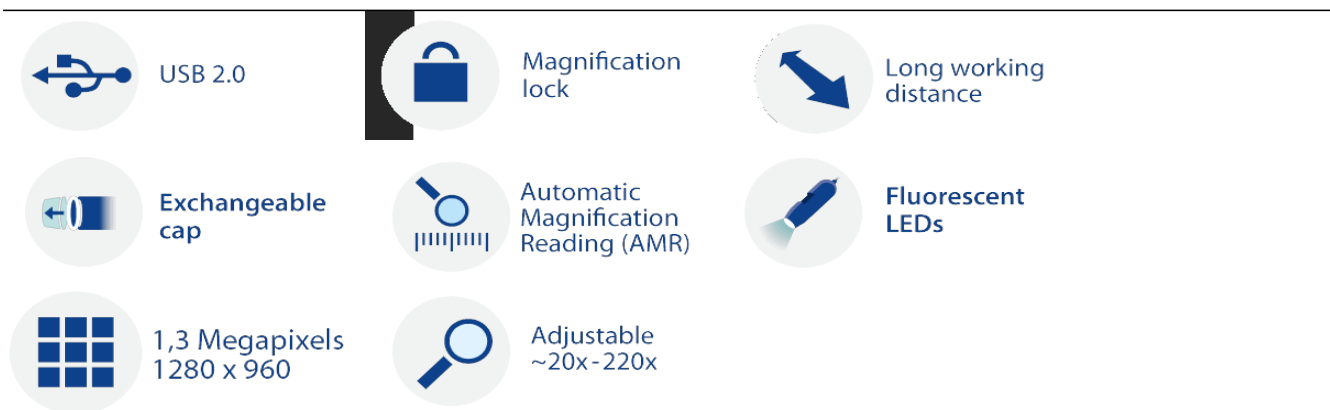
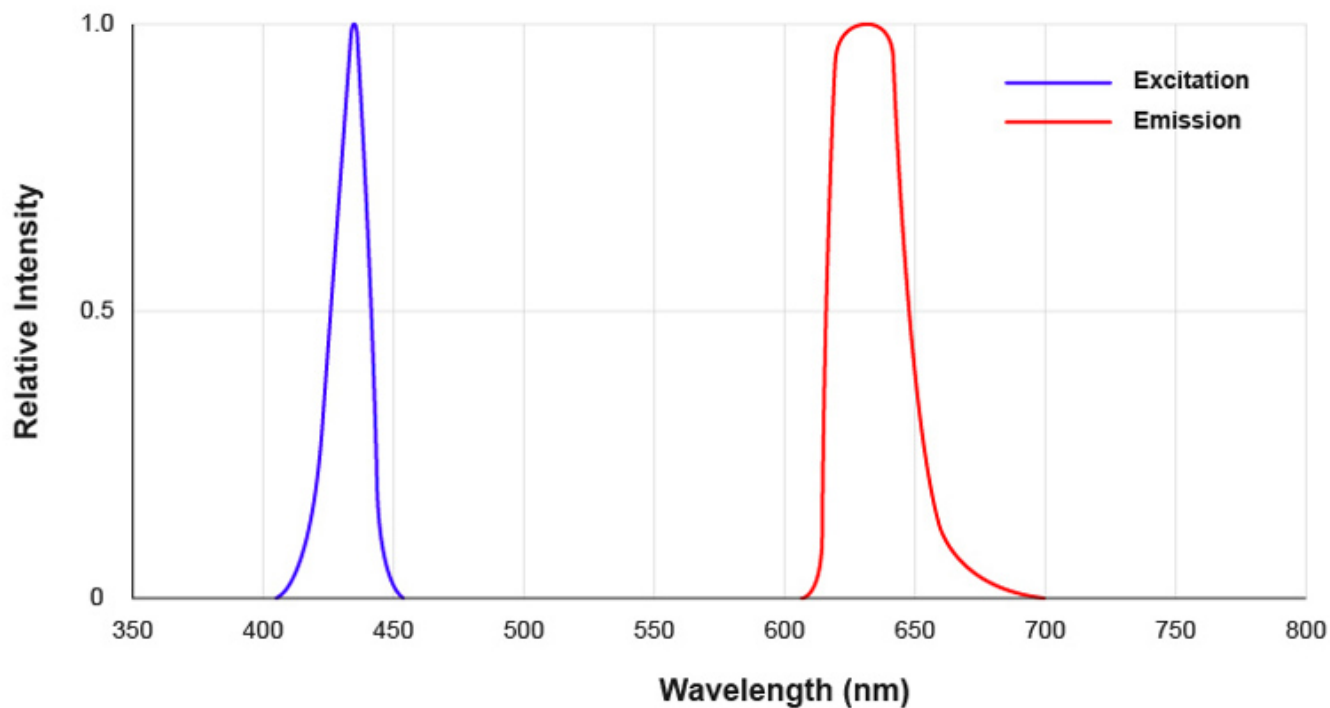
Large Stokes Shift (LSS) Red Fluorescence

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
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- 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