

AM4517MT-DFRW

Product Code: AM4517MT-DFRW



Short Description

1.3 Megapixel Edge sensor

High Sensitivity Sensor

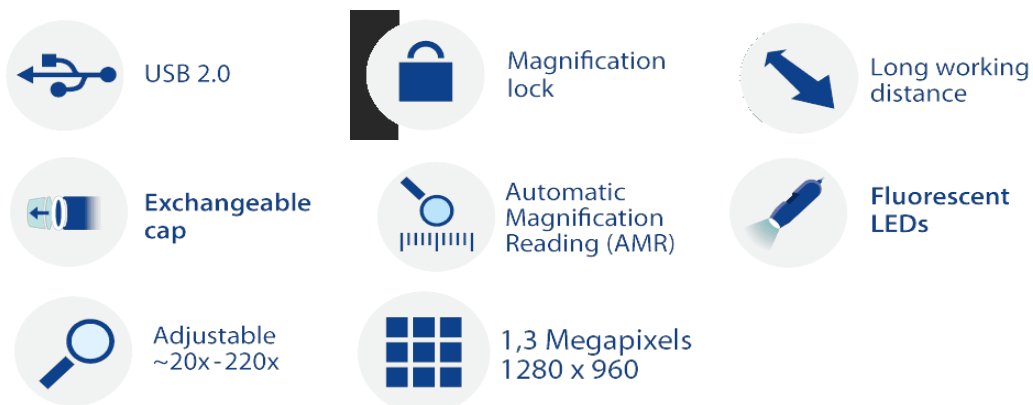
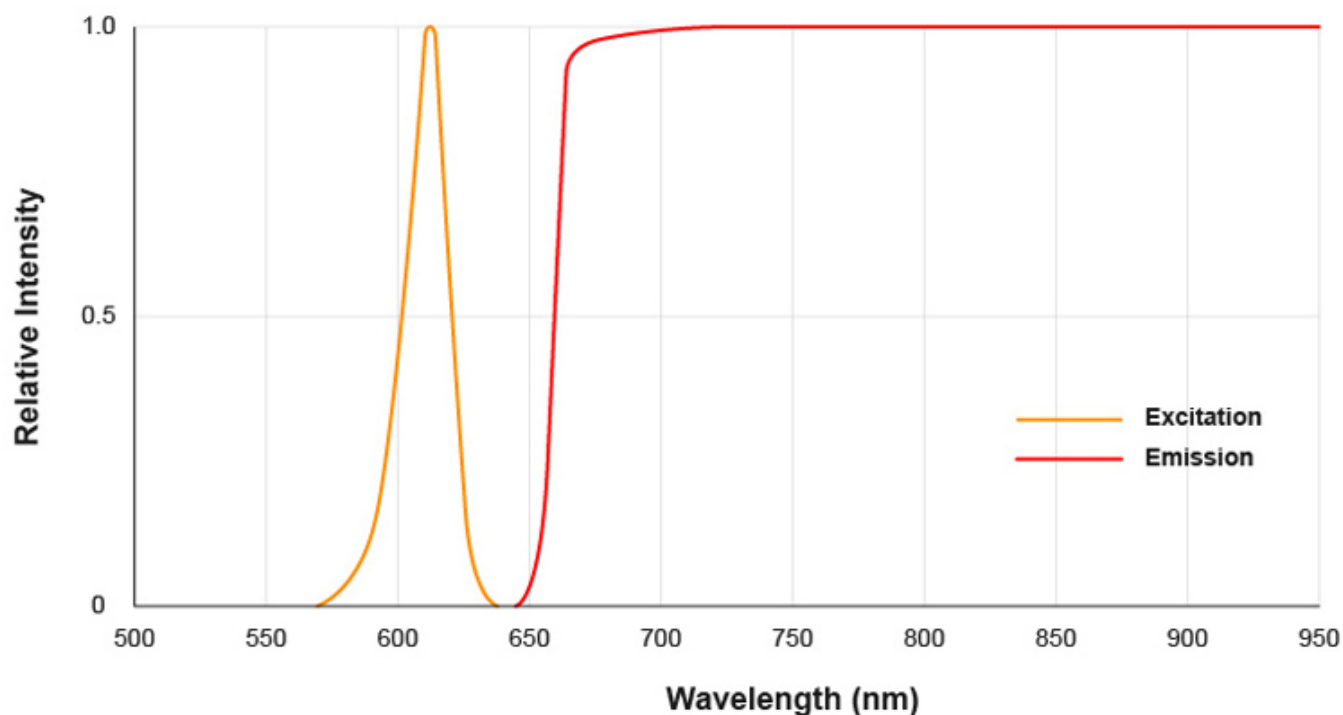
Fluorescence

Automatic Magnification Readout (AMR)

Robust Metal Housing

Description

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
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Listed values may differ slightly	Distance *		View(y)	Unit = mm
	* Without front 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

Specification

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