

AM4517MT-GRFBY

Product Code: AM4517MT-GRFBY

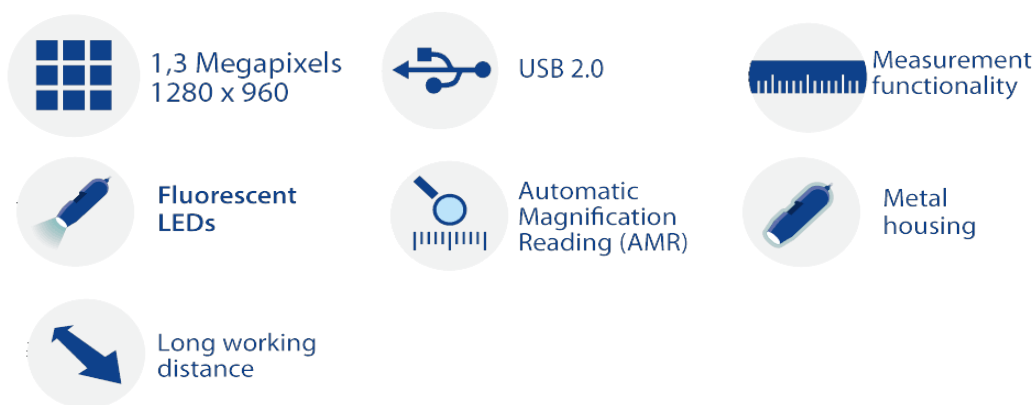
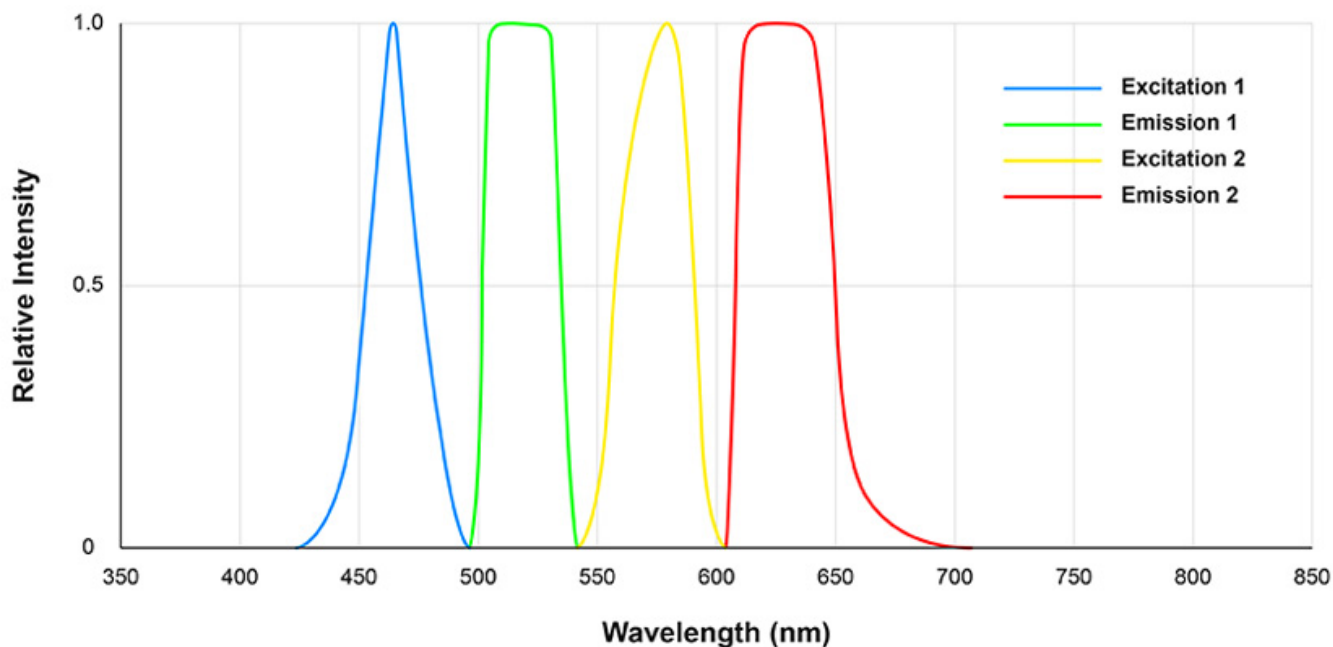


Short Description

- 1.3 Megapixel
- Green and Red fluorescence
- High sensitivity sensor
- Dual-Band Emission Filterry
- Automatic Magnification Readout (AMR)
- Switchable Excitation Lights

Description

The AM4517MT-GRFBY is a high-sensitivity digital microscope with a 20x ~ 220x magnification range, designed for detecting green and red fluorescence. Equipped with both 465 nm and 580 nm excitation lights, it's ideal for visualizing samples labeled with green and red fluorophores, such as GFP and RFP. Featuring AMR, this microscope provides measurement convenience.



The main features of the AM4517MT-GRFBY are:

- 1.3 Megapixel
- High Sensitivity Sensor
- Fluorescence Detection
- Switchable White Light
- Automatic Magnification Readout (AMR)
- Robust Metal Housing
- Dual-Band Emission Filter

Optical Data Table

Magnification Rate	Working Distance *	Field of View(x)	Field of View(y)	Depth of Field
Listed values may differ	* Without front cap			Unit = mm

slightly

20x	60.3	19.53	14.65	6.34
30x	33.6	13.02	9.77	3.03
40x	20.9	9.77	7.33	1.82
50x	13.9	7.81	5.86	1.24
60x	9.7	6.51	4.88	0.91
70x	7.1	5.58	4.19	0.71
80x	5.5	4.88	3.66	0.57
90x	4.6	4.34	3.26	0.47
100x	4.1	3.91	2.93	0.40
110x	4.0	3.55	2.66	0.35
120x	4.1	3.26	2.44	0.31
130x	4.5	3.01	2.25	0.27
140x	5.0	2.79	2.09	0.24
150x	5.6	2.60	1.95	0.22
160x	6.3	2.44	1.83	0.20
170x	7.1	2.30	1.72	0.18
180x	8.0	2.17	1.63	0.17
190x	8.9	2.06	1.54	0.16
200x	9.9	1.95	1.47	0.15
210x	10.9	1.86	1.40	0.14
220x	12.0	1.78	1.33	0.13

Specification

Lighting	
Light/ LED type	465 nm and 580 nm excitation
Number of LEDs	4 465 nm + 4 580 nm
LED on/off switchable:	Yes
Infrared filter	No
Diffuser available	No
Emission filter	green (505 nm ~ 535 nm) and red (610 nm ~ 650 nm) fluorescence
Polarizer	No
Fluorophores	GFP and RFP
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	92g
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