

AM4517MT-BFCW



Product Code: AM4517MT-BFCW

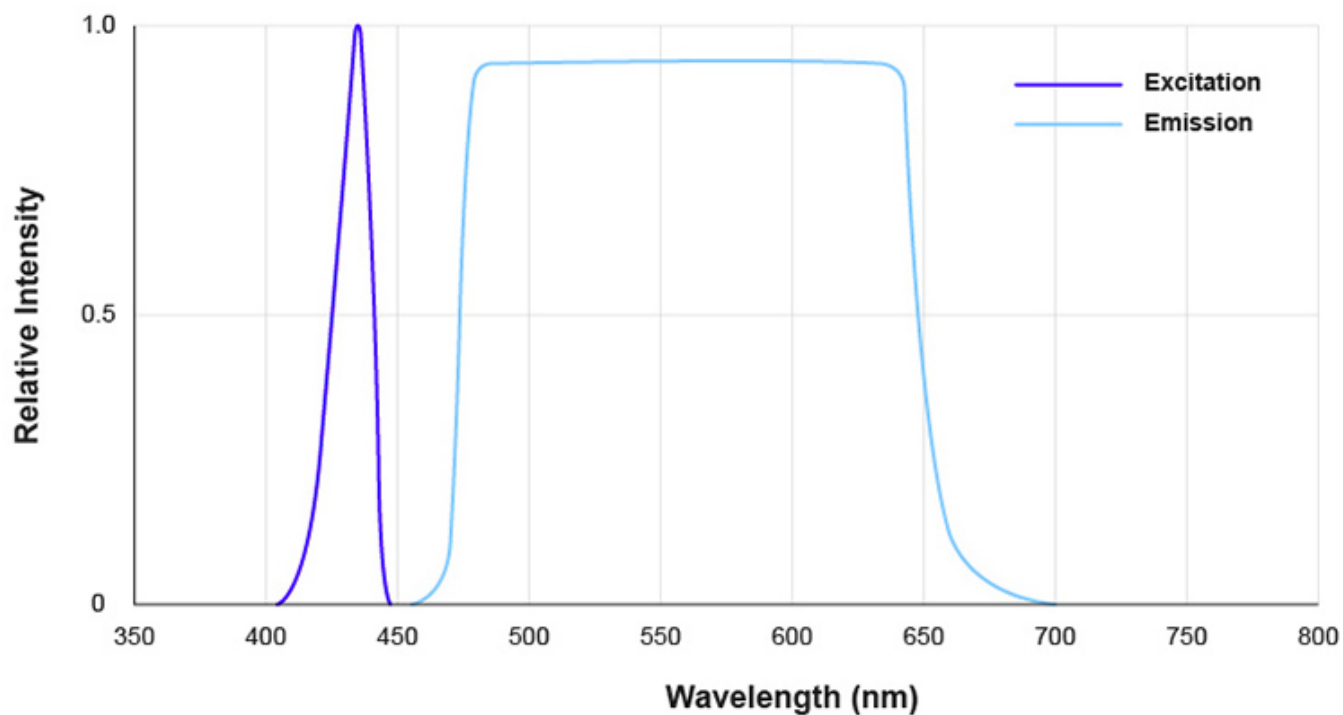
Short Description

1.3 Megapixel Edge sensor
High Sensitivity Sensor
Fluorescence
Automatic Magnification Readout (AMR)
Robust Metal Housing

Description

Detect a variety of fluorescence emissions with the AM4517MT-BFCW high-sensitivity 20x ~ 220x digital microscope. Equipped with 435 nm excitation lights and a 475 nm ~ 650 nm emission filter, this model captures clear images of samples labeled with fluorescent probes such as eCFP, Alexa Fluor 430, and Fura Red. This model features AMR to ease measurements.

Designed for precision fluorescence imaging, this system features a high-sensitivity sensor for detecting low fluorescence emissions, wide-ranging fluorescence detection with 435 nm excitation lights, and a 475–650 nm emission filter. A switchable white LED aids in target focusing, while Automatic Magnification Readout (AMR) ensures accurate measurements. Housed in a durable anodized aluminum alloy, it offers EMI shielding and resistance to impacts and abrasions.



USB 2.0



1,3 Megapixels
1280 x 1024



Magnification
lock



Long working
distance



Exchangeable
cap



Automatic
Magnification
Reading (AMR)



Extended
Dynamic
Range EDR



Fluorescent
LEDs



Adjustable
~10-220x

The main features of the AM4517MT-BFCW 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 Rate	Working Distance *	Field of View(x)	Field of View(y)	Depth of Field
Listed values may differ slightly	* Without front cap			Unit = mm

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
Infrared filter	No
Diffuser available	No
Emission filter	475 nm ~ 650 nm
Polarizer	No
Fluorophores	eCFP, Alexa Fluor 430, and Fura Red
Optics	
Magnification	20x ~ 220x
Sensor	
Resolution	1.3 Megapixel (1280x960)
Maximum frame rate	30 fps at 1.3 MP, MJPEG 30 fps at VGA, MJPEG
Compatibility	
Interface	USB 2.0
Operating system	Windows 10/11 macOS 10.14 or later
Supported image formats (Windows)	DinoCapture 2.0: BMP, PNG, TIF, JPG DinoCapture 3.0: BMP, PNG, TIF, JPG

Supported video formats (Windows)	DinoCapture 2.0: WMV, FLV, SWF DinoCapture 3.0: WMV, MP4
Supported image formats (MacOS)	DinoXcope: PNG, JPEG
Supported video formats (MacOS)	DinoXcope: MOV
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

Product Gallery

