

# AM4117MT-RFCW



**Brand:**  
**Product Code:** AM4117MT-RFCW

## Short Description

1.3 Megapixel  
High Sensitivity Sensor  
Large Stokes Shift (LSS) Red Fluorescence  
Dual Lighting  
Robust Metal Housing

## Description

With 435 nm excitation lights and a 615 nm ~ 640 nm emission filter, AM4117MT-RFCW can detect red fluorescence excited by blue light, making it suitable for fluorescence probes with large Stokes shift, such as dKeima, tKeima, and LSSmKate1.

## Working distance/field of view/depth of field

M	WD	FOV (x)	FOV (y)	DOF
10	142.8	39.1	29.3	23.5
20	59.9	19.5	14.7	6.3
30	33.3	13.0	9.8	3.0
40	20.6	9.8	7.3	1.8
50	13.6	7.8	5.9	1.2
60	9.4	6.5	4.9	0.9
70	6.8	5.6	4.2	0.7
80	5.3	4.9	3.7	0.6

90	4.3	4.3	3.3	0.5
100	3.9	3.9	2.9	0.4
110	3.8	3.6	2.7	0.3
120	3.9	3.3	2.4	0.3
130	4.2	3.0	2.3	0.3
140	4.7	2.8	2.1	0.2
150	5.4	2.6	2.0	0.2
160	6.1	2.4	1.8	0.2
170	6.9	2.3	1.7	0.2
180	7.7	2.2	1.6	0.2
190	8.7	2.1	1.5	0.2
200	9.6	2.0	1.5	0.1
210	10.7	1.9	1.4	0.1
220	11.7	1.8	1.3	0.1

## Specification

<b>Lighting</b>	
Light/ LED type	Excitation Light (?peak = 435 nm) White Light
<b>Optics</b>	
Magnification	10x ~ 220x
<b>Sensor</b>	
Resolution	1.3 Megapixel (1280 x 960)
Maximum frame rate	30 fps at 1.3 MP, MJPEG 30 fps at VGA, MJPEG
<b>Compatibility</b>	
Interface	USB 2.0
Operating system	Windows 10/11 macOS 10.14 or later
<b>Housing</b>	
Magnification lock	Yes
Dimensions	104 mm (H) x 32 mm (D)
Weight	Approx. 90 g
Cable length	Approx. 1.8 m
<b>Features</b>	
Measurement	Yes
Calibration	Yes
Microtouch sensor	Yes
<b>Information</b>	
Package contents	Microscope, carry pouch, calibration target, user manual, N3C-O- Open cap, N3C-C- Closed cap, N3C-D- diffuser cap, N3C-E- Extension cap, N3C-L- Long cap, N3C-S- Side light cap
Warranty information	2 years European warranty
Regulatory approval	CE, FCC, ROHS

