

AM4115T-GRFBY



Overview

Specification



Observe green fluorescence

Beneficial for applications such as research with green fluorescent proteins, the AM4115T-GRFBY has built-in filtered blue LEDs for excitation light source with 510nm emission filter to clearly observe green fluorescence. It also includes a white LED to assist in locating points of interest.



The smallest microscope for observing red fluorescence

Packed into Dino-Lite form factor, the AM4115T-GRFBY utilizes filtered yellow LEDs for excitation light source with 610nm emission filter for observing red fluorescence. It is beneficial for applications such as protein expression studies with mCherry. It also includes a white LED for non-excitation lighting to assist in locating points of interest.



High sensitivity to green fluorescence

The Dino-Lite uses a high sensitivity 1.3 Megapixels sensor combined with a specially designed lens to capture faint fluorescent signals with results comparable to some traditional microscope capabilities.



Convenient flexible magnification

The Dino-Lite is capable of variable magnification with a range of 20~220x depending of working distance by simply zooming in or out with just a rotating dial.



USB 2.0 Interface

It only requires USB 2.0 to power the device so it can be connected or travel with a compatible PC/ MAC for analysis and documentation with its bundled software.

Information about working distance and field of view

M	WD	FOV (x)	FOV (y)	DOF
20	60.2	19.5	15.6	2.5
30	33.5	13	10.4	1.8
40	20.9	9.8	7.8	1.5
50	13.9	7.8	6.3	
60	9.7	6.5	5.2	
70	7.1	5.6	4.5	1.0
80	5.5	4.9	3.9	
90	4.5	4.3	3.5	
100	4.1	3.9	3.1	
110	4	3.6	2.8	
120	4.1	3.3	2.6	
130	4.5	3	2.4	
140	5	2.8	2.2	

150	5.6	2.6	2.1	
160	6.3	2.4	2	
170	7.1	2.3	1.8	
180	8	2.2	1.7	
190	8.9	2.1	1.6	
200	9.9	2	1.6	
210	10.9	1.9	1.5	
220	11.9	1.8	1.4	0.1

M = magnification rate field WD = working distance (without front cap) FOV = field of view DOF= depth of field Unit = mm

Specification

Model	AM4115T-GRFBY Dino-Lite Edge
Interface	USB 2.0
Product Resolution	1.3M pixels (SXGA)
Magnification Rate	20x~220x
Sensor	Color CMOS
Frame Rate	Up to 30fps
Save Formats	Image: DinoCapture2.0: BMP, GIF, PNG, MNG, TIF, TGA, PCX, WBMP, JP2, JPC, JPG, PGX, RAS, PNM DinoXcope: PNG, JPEG Movie: DinoCapture2.0: WMV, FLV, SWF DinoXcope: MOV
Microtouch	Touch sensitive trigger on the microscope for taking pictures
Lighting	Using 4 blue LEDs for excitation lighting and has a 510nm emission filter/4 yellow LEDs for excitation lighting and has a 610nm emission filter switched by software
Measurement Function	Yes
Calibration Function	Yes
Operating System Supported	Windows 10, 8, 7, Vista, XP MAC OS 10.4 or later
Unit Weight	100g
Unit Dimension	10.5cm (H) x 3.2cm (D)
Package Dimensions	16cm (L) x 16cm (W) x 6cm (H)