

AM4115T-GRFBY



Overview



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.



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.



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.



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.



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.

Interchangeable Front Caps



N3C-OB / Open Cap

This is the standard cap for Fluorescence model usage.

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 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 : 10.5 cm (H) x 3.2 cm (D)

Package Dimensions : 16cm (L) x 16cm (W) x 6cm (H)

