

# AM4115T-GRFBY

**Brand:**

**Product Code:** AM4115T-GRFBY



## Short Description

1.3 Megapixel resolution

465nm excitation + 580NM excitation

20-220x Magnification

To observe GFP/FITC & TxRed/mCherry

## Description

The Dino-Lite AM4115T-GRFBY digital microscope is optimized for research and viewing fluorescent objects by using 465nm and 580nm LEDs. It has a 510nm and 610nm emission filter that is designed to observe a wide range fluorophores with applications in developmental biology, pathology, and anatomy.



USB 2.0



Measurement  
functionality



Adjustable  
~20x-220x



Magnification  
lock



1.3 megapixel  
1280 x 1024



Fluorescent LEDs ~  
480 & 575nm



Standard working  
distance

The AM4115T-GRFBY has the capability of switching the light source from the 465nm

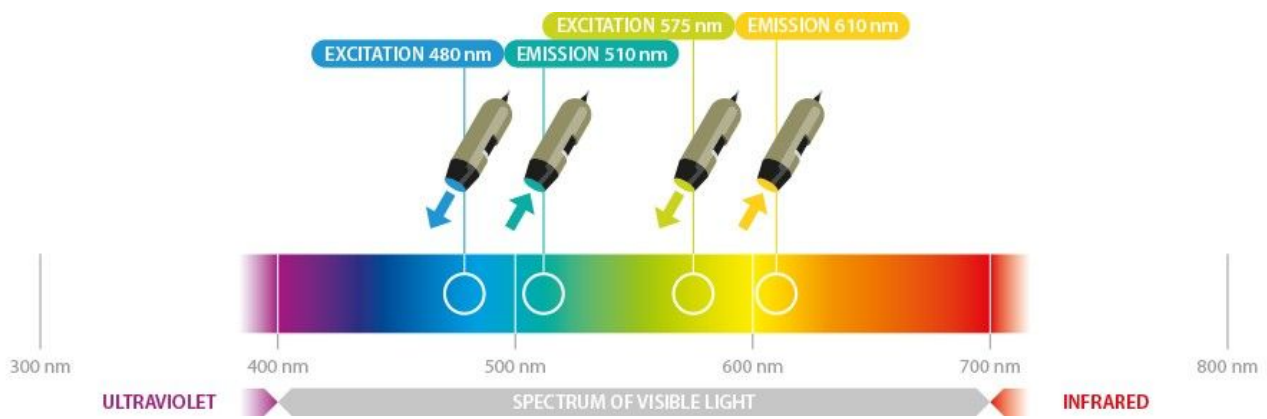
+ 580NM excitation, which is convenient for dual color stained fluorescence. All of these factors make the AM4115T-GRFBY the smallest fluorescence microscope in the world, capable of many applications and visualizing a vast range of fluorescence.

» *Special models available on request.*

**Working distance/field of view/depth of field**

| 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      |
| 20                                | 60.2                | 19.5             | 15.6             | 2.5            |
| 30                                | 33.5                | 13.0             | 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                               | 4.0                 | 3.6              | 2.8              | -              |
| 120                               | 4.1                 | 3.3              | 2.6              | -              |
| 130                               | 4.5                 | 3.0              | 2.4              | -              |
| 140                               | 5.0                 | 2.8              | 2.2              | -              |
| 150                               | 5.6                 | 2.6              | 2.1              | -              |
| 160                               | 6.3                 | 2.4              | 2.0              | -              |
| 170                               | 7.1                 | 2.3              | 1.8              | -              |
| 180                               | 8.0                 | 2.2              | 1.7              | -              |
| 190                               | 8.9                 | 2.1              | 1.6              | -              |
| 200                               | 9.9                 | 2.0              | 1.6              | -              |
| 210                               | 10.9                | 1.9              | 1.5              | -              |
| 220                               | 11.9                | 1.8              | 1.4              | 0.1            |

**Special Light**



## Specification

| Lighting                          |                                                                       |
|-----------------------------------|-----------------------------------------------------------------------|
| Light/ LED type                   | 465nm excitation + 580NM excitation                                   |
| Number of LEDs                    | 4 FL + 4 FL                                                           |
| LED on/off switchable:            | Yes                                                                   |
| Infrared filter                   | No                                                                    |
| Diffuser available                | No                                                                    |
| Emission filter                   | 510nm & 610nm                                                         |
| Polarizer                         | No                                                                    |
| Fluorophores                      | GFP/FITC & TxRed/mCherry                                              |
| Optics                            |                                                                       |
| Magnification                     | 20x ~ 220x                                                            |
| Macro zoom                        | No                                                                    |
| Working distance                  | Standard                                                              |
| Lens type                         | Glass with anti-reflection coating                                    |
| Sensor                            |                                                                       |
| Sensor type                       | CMOS                                                                  |
| Resolution                        | 1.3 Megapixel (1280x1024)                                             |
| 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           | MOV                                                                   |

|                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| (MacOS)              |                                                                       |
| Imaging standards    | DirectShow, UVC                                                       |
| Wifi                 | Wireless-ready, requires the WF-10 WiFi streamer (optional)           |
| Housing              |                                                                       |
| Housing material     | Composite/ plastic housing                                            |
| Magnification lock   | Yes                                                                   |
| Dimensions           | 10.5cm (L) x 3.2cm (D)                                                |
| Weight               | 100g                                                                  |
| Cable length         | 1.8m                                                                  |
| Features             |                                                                       |
| Special feature      | No                                                                    |
| Measurement          | Yes                                                                   |
| Calibration          | Yes                                                                   |
| Microtouch sensor    | Yes                                                                   |
| ESD safe             | No                                                                    |
| Information          |                                                                       |
| Package contents     | Microscope, carry pouch, software CD, calibration target, user manual |
| Warranty information | 2 years European warranty                                             |
| Regulatory approval  | CE, FCC, ROHS                                                         |
| Price range          | €800,00 - €1000,00                                                    |