

# AM4115T-GRFBY

**Brand:**

**Product Code:** AM4115T-GRFBY



## Short Description

1.3 Megapixel resolution

480 & 575nm excitation, 510 & 610nm emission filter

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 480nm and 575nm excitation 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 480nm

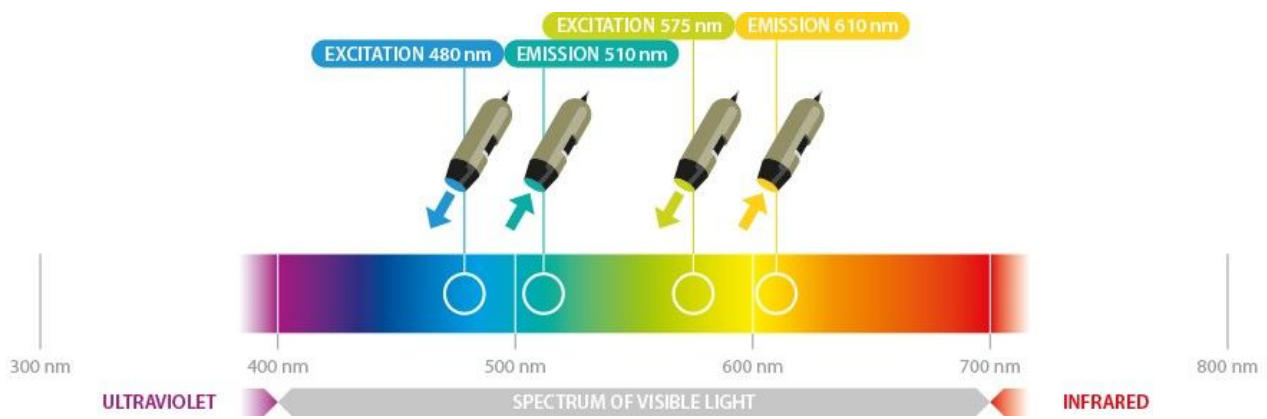
excitation LEDs to the 575nm LED, which is convenient for dual color stained fluorescence. All of these factors make the AM4115T-GRFBY the smallest fluorescence microscope in the world, capable of many applications and visualizing a vast range of fluorescence.

» *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                   | 480nm excitation + 575nm 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                     | 20-220x                                                               |
| 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                                                    |