

# Dino-Lite special lighting

More information on [www.dino-lite.eu/speciallighting](http://www.dino-lite.eu/speciallighting)



## Dino-Lite special lighting

Many specialized applications in science, forensics, industry, engineering or the medical field, require special lighting. For many specific applications, Dino-Lite models were created with ultraviolet lighting, infrared lighting, fluorescent lighting or combinations between the different lighting types. Dino-Lite microscopes in this range offer an optical resolution of 1.3 megapixel or 5 megapixel, a USB connection and include the user-friendly DinoCapture or DinoXcope software. Magnification ranges from medium to high (until ~500x) are available.

Models with an extra robust metal housing are part of this range. The widely acclaimed series of Dino-Lite fluorescence microscopes are considered to be the world's smallest fluorescence microscopes. Compared to the traditional fluorescence microscopes with the band-pass type of emission filters, the Dino-Lites Long-pass emission filters provide visibility and sensitivity over a larger range of the fluorescence wavelengths.

### Ultraviolet (UV)



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Dino-Lite handheld microscopes with ultraviolet (UV) light or a combination between UV and white light.

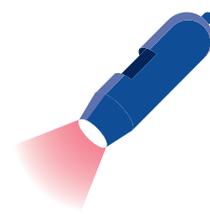
### Fluorescence



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Dino-Lite handheld microscopes with fluorescent LEDs to detect fluorescence from 400nm to 620nm.

### Infrared (IR)



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Dino-Lite handheld microscopes with infrared light or combinations between infrared and ultraviolet light.

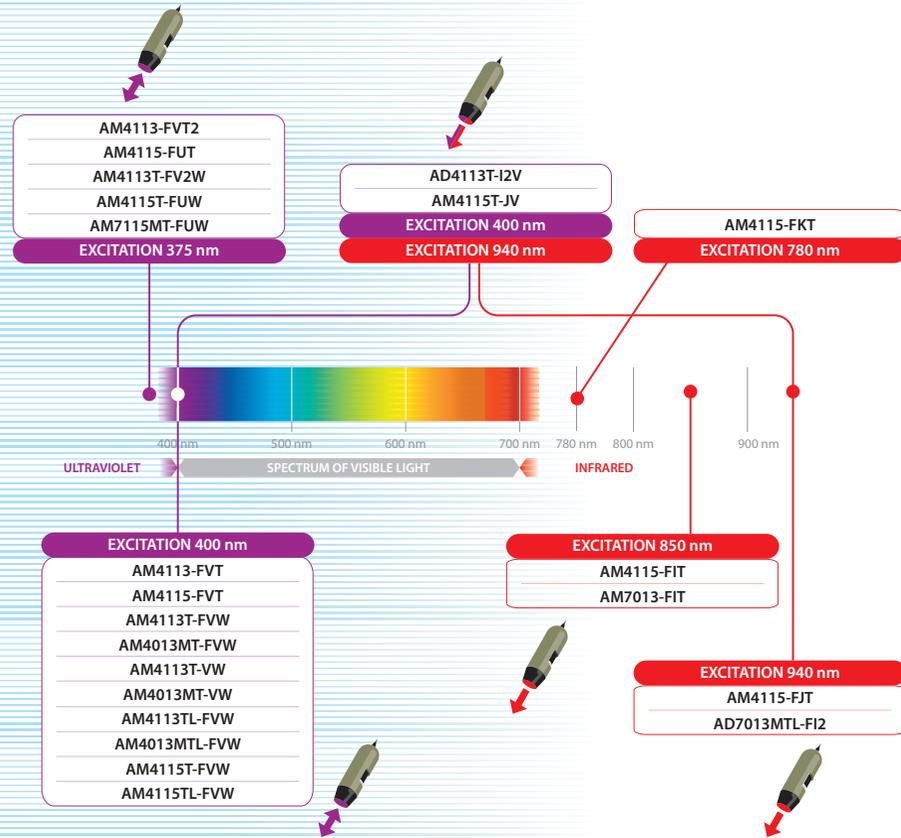
### Stroboscopic light



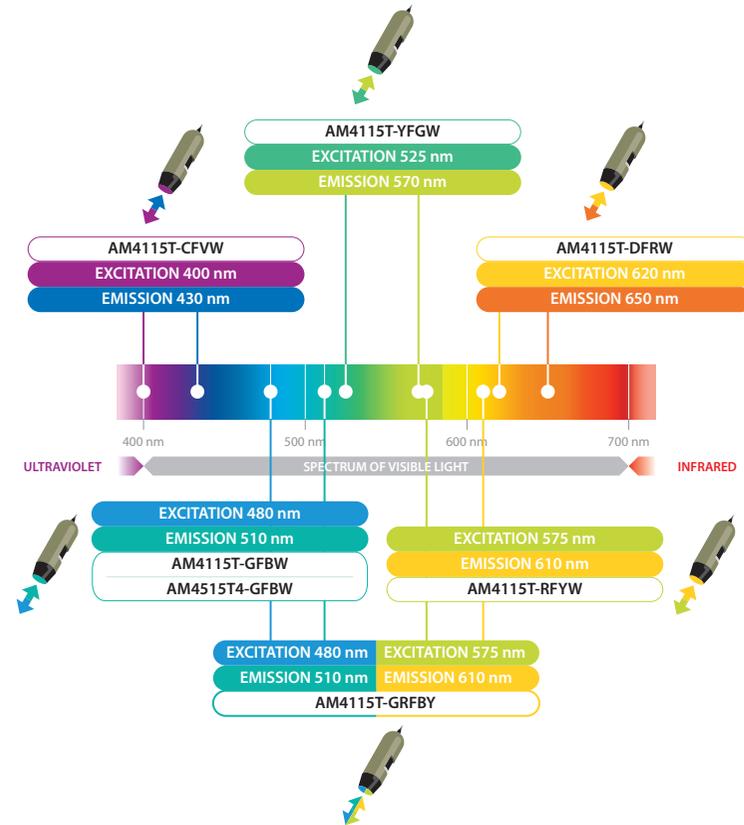
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Dino-Lite handheld microscopes with stroboscopic technology to capture fast moving objects.

## UV and IR models



## Fluorescence models



# Dino-Lite special lighting - ultraviolet (UV)

More information on [www.dino-lite.eu/ultraviolet](http://www.dino-lite.eu/ultraviolet)

Dino-Lite handheld microscopes with ultraviolet (UV) light or a combination of UV and white light. Dino-Lite microscopes in this range offer an optical resolution of 1.3 megapixel or 5 megapixel, a USB connection and include the user-friendly DinoCapture and DinoXcope software. Models with an extra robust metal housing are part of this range.

-  2-year European warranty
-  Regulatory approval: CE, FCC, ROHS
-  Free SDK available for integration projects
-  Included software: DinoCapture 2.0 (Windows), DinoXcope (Mac OS)
-  Wireless streaming in combination with WF-10 unit



AM4113xx series



AM4115xx series



AM4013xx / AM7013xx series

MODEL	RESOLUTION	MAGNIFICATION	CONNECTIVITY	LONG WORKING DISTANCE	MEASUREMENT & CALIBRATION	NUMBER OF LEDS	TYPE OF LEDS	EMISSION FILTER	EXCHANGABLE CAPS	POLARIZER	METAL HOUSING	ESD-SAFE	GENERATION	PRICE RANGE
<b>SPECIAL LIGHTING ULTRAVIOLET</b>														
AM4113FVT2	1,3 Megapixel	10 - 70x, 200x	USB 2.0	-	✓	4	~375 nm UV	✓	-	-	-	-	-	€ 200 - 300
AM4113FVT	1,3 Megapixel	10 - 70x, 200x	USB 2.0	-	✓	8	390/400 nm UV	✓	-	-	-	-	-	€ 200 - 300
AM4115-FUT	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	4	~375 nm UV	✓	✓	-	-	-	Edge	€ 400 - 500
AM4115-FVT	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	8	390/400 nm UV	✓	✓	-	-	-	Edge	€ 400 - 500
AM4113T-FV2W	1,3 Megapixel	10 - 70x, 200x	USB 2.0	-	✓	4+4	375 nm UV + white	✓	-	-	-	-	-	€ 300 - 400
AM4113T-FVW	1,3 Megapixel	10 - 70x, 200x	USB 2.0	-	✓	4+4	390/400 nm UV + white	✓	-	-	-	-	-	€ 300 - 400
AM4013MT-FVW	1,3 Megapixel	10 - 70x, 200x	USB 2.0	-	✓	4+4	390/400 nm UV + white	✓	-	-	✓	✓	-	€ 400 - 500
AM4113T-VW	1,3 Megapixel	10 - 70x, 200x	USB 2.0	-	✓	4+4	390/400 nm UV + white	-	-	-	-	-	-	€ 300 - 400
AM4013MT-VW	1,3 Megapixel	10 - 70x, 200x	USB 2.0	-	✓	4+4	390/400 nm UV + white	-	-	-	✓	✓	-	€ 400 - 500
AM4113TL-FVW	1,3 Megapixel	10 - 90x	USB 2.0	✓	✓	4+4	390/400 nm UV + white	✓	-	-	-	-	-	€ 300 - 400
AM4013MTL-FVW	1,3 Megapixel	10 - 90x	USB 2.0	✓	✓	4+4	390/400 nm UV + white	✓	-	-	✓	✓	-	€ 500 - 600
AM4115T-FUW	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	4+4	375 nm UV + white	✓	✓	-	-	-	Edge	€ 500 - 600
AM4115T-FVW	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	4+4	390/400 nm UV + white	✓	✓	-	-	-	Edge	€ 500 - 600
AM4115TL-FVW	1,3 Megapixel	10 - 140x	USB 2.0	✓	✓	4+4	390/400 nm UV + white	✓	✓	-	-	-	Edge	€ 500 - 600
AM7115MT-FUW	5 Megapixel	20 - 220x	USB 2.0	-	✓	4+4	375 nm UV + white	✓	✓	-	✓	✓	Edge	€ 700 - 800

# Dino-Lite special lighting - fluorescence

More information on [www.dino-lite.eu/fluorescence](http://www.dino-lite.eu/fluorescence)



The widely acclaimed series of Dino-Lite fluorescence microscopes are considered to be the world's smallest fluorescence microscopes. Compared to the traditional fluorescence microscopes with the band-pass type of emission filters, the Dino-Lites long-pass emission filters provide visibility and sensitivity over a larger range of the fluorescence wavelengths. Dino-Lite handheld microscopes with fluorescent LEDs to visualize fluorescence from 400nm to 620nm.

**2** 2-year European warranty

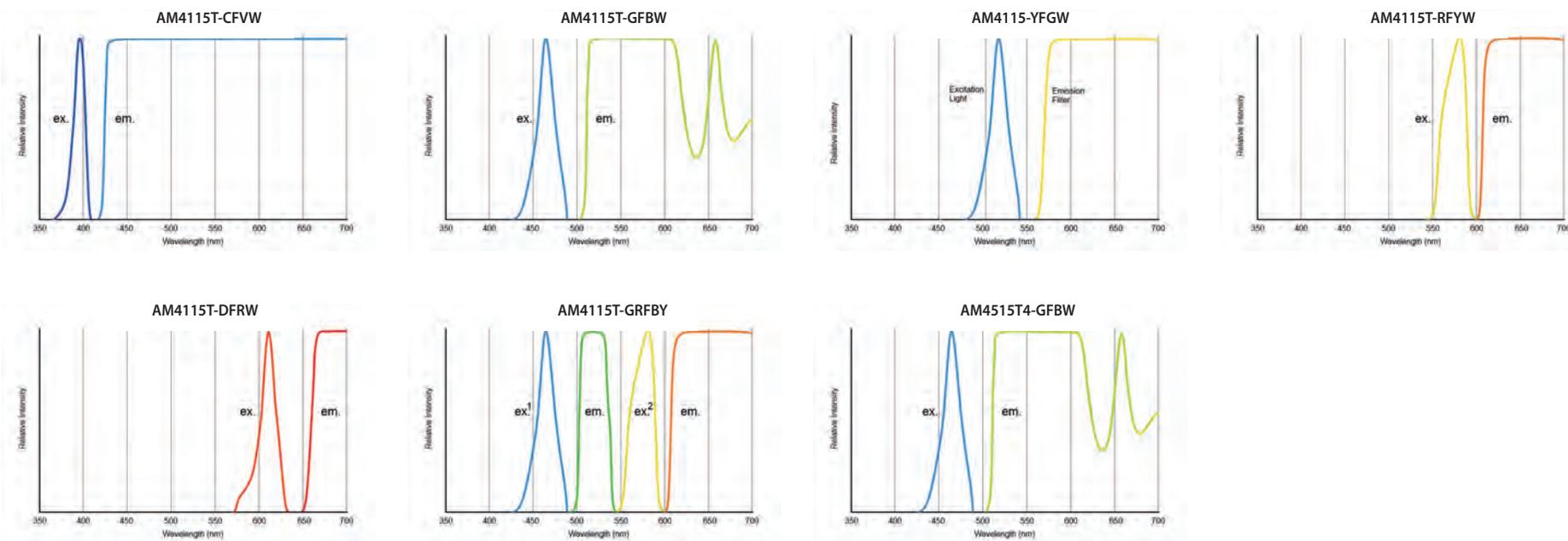
 Regulatory approval: CE, FCC, ROHS

**SDK** Free SDK available for integration projects

 Included software: DinoCapture 2.0 (Windows), DinoXcope (Mac OS)

 Wireless streaming in combination with WF-10 unit

# Dino-Lite special lighting - fluorescence



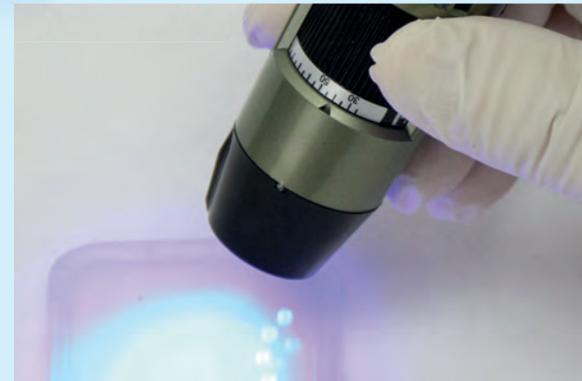
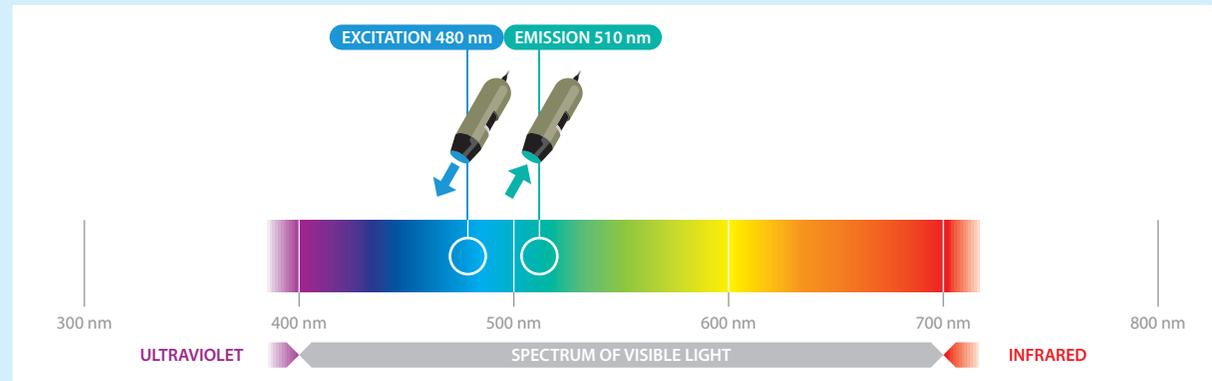
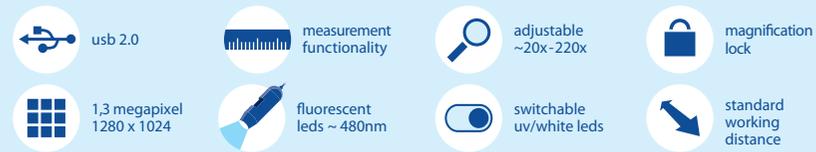
MODEL	RESOLUTION	MAGNIFICATION	CONNECTIVITY	LONG WORKING DISTANCE	MEASUREMENT & CALIBRATION	NUMBER OF LEDs	EXCITATION WAVELENGTH	EMISSION WAVELENGTH	FLUOROPHORE (EXAMPLE)	EXCHANGABLE CAPS	POLARIZER	METAL HOUSING	ESD-SAFE	GENERATION	ADDITIONAL FEATURES	PRICE RANGE
<b>SPECIAL LIGHTING FLUORESCENCE</b>																
AM4115T-CFVW	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	7 FL + 1 White	EX: 400 nm + white	EM: 430 nm LP	DAPI	✓	-	-	-	Edge		€ 600 - 700
AM4115T-GFBW	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	7 FL + 1 White	EX: 480 nm + white	EM: 510 nm LP	GFP, FITC	✓	-	-	-	Edge		€ 600 - 700
AM4115T-YFGW	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	7 FL + 1 White	EX: 525 nm + white	EM: 570 nm LP	Cy3, TRITC	✓	-	-	-	Edge		€ 600 - 700
AM4115T-RFYW	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	7 FL + 1 White	EX: 575 nm + white	EM: 610 nm LP	TxRed, mCherry	✓	-	-	-	Edge		€ 600 - 700
AM4115T-DFRW	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	7 FL + 1 White	EX: 620 nm + white	EM: 650 nm LP	Cy5	✓	-	-	-	Edge		€ 600 - 700
AM4115T-GRFBY	1,3 Megapixel	20 - 220x	USB 2.0	-	✓	4 FL + 4 FL	EX: 480 nm + 575 nm	EM: 510 nm & 610 nm	GFP/FITC & TxRed/mCherry	✓	-	-	-	Edge		€ 700 - 800
AM4115T4-GFBW	1,3 Megapixel	400 - 470x	USB 2.0	-	✓	7 FL + 1 White	EX: 480 nm + white	EM: 510 nm LP	GFP, FITC	✓	-	-	-	Edge	AMR	€ 600 - 700

# recommended product More information on [www.dino-lite.eu/am4115t-gfbw](http://www.dino-lite.eu/am4115t-gfbw)

## AM4115T-GFBW, fluorescence

Edge Sensor - 1 white / 7 FL LEDs - Excitation at 480 and emission from 510nm

The Dino-Lite AM4115T-GFBW digital microscope is optimized for research and viewing fluorescent objects by using blue LEDs. It has a 510 nm emission filter that is designed to observe green fluorescence including but not limited to GFP (green fluorescent protein). Compared to the traditional fluorescence microscope's band-pass type of emission filters, the Dino-Lite's high-pass type emission filter provides visibility and sensitivity over a larger range of the fluorescence wavelength. Green fluorescent objects pop out under the microscope and you can clearly see its green glow. The AM4115T-GFBW has the capability of switching the light source from the blue to white LEDs which is convenient for locating the object and obtaining an easy focus.



# case study fluorescence

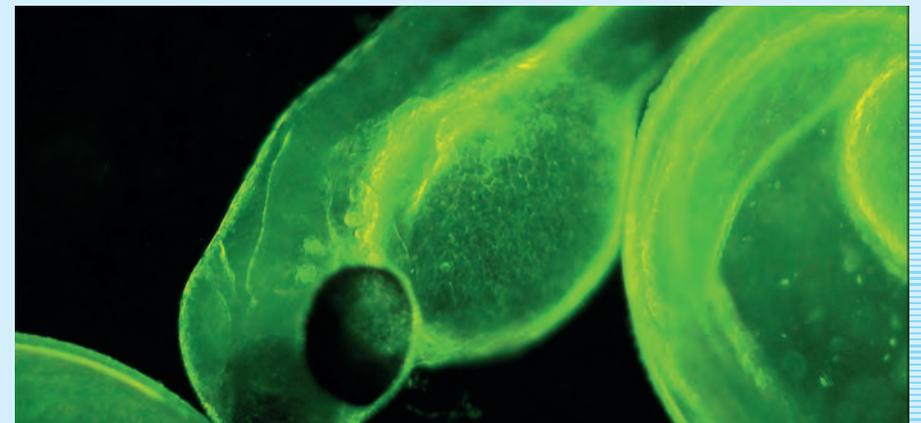
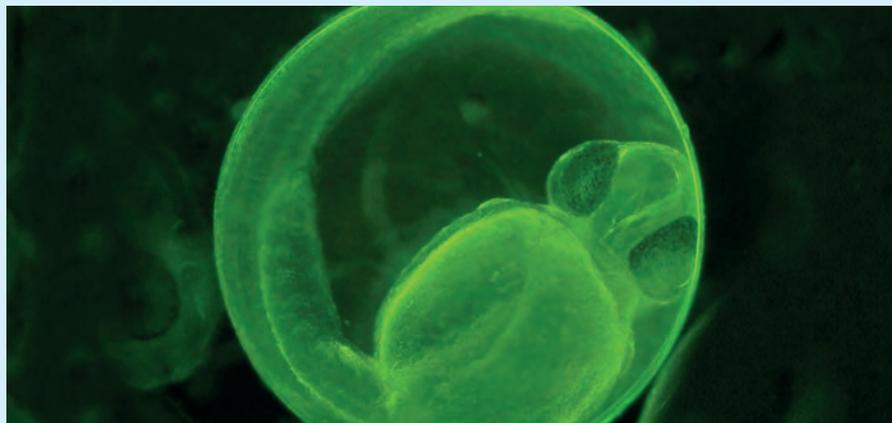
More information on [www.dino-lite.eu/zebrafish-research](http://www.dino-lite.eu/zebrafish-research)

## Cell research made visible with usb fluorescence microscopy

### Dino-Lite helps researchers to form an image

Research into life-threatening diseases is of great importance. Miraculously a small striped fish with special light microscopy can play an important role. Professor Yung-Jen Chuang (47) from Taiwan is doing research with zebrafish using Dino-Lite fluorescence microscopes. Within the National Tsing Hua University in Hsinchu, Taiwan, Professor Yung-Jen Chuang runs a laboratory for vascular biology. Vascular biology is the study of our circulatory system in all its forms, from the aorta to the smallest capillary in the brains. Professor Yung-Jen Chuang and his team are particularly interested in the molecular and cellular processes that occur when new blood vessels are formed from the existing blood vessels, a process that is called angiogenesis. The team is also investigating how tissue repair occurs after injury to vital organs such as heart or brains, and examines which reactions influence the blood circulation within a tumor.

The studies also involve functional genomics that aims to identify what specific genes work harder, for instance to speed up regeneration. Obviously Professor Yung-Jen Chuang is leading a team that consists of a large number of researchers, an even greater number of zebrafish and Dino-Lite fluorescence microscopes. Professor Yung-Jen Chuang worked with Dino-Lite to develop the fluorescence digital microscopes: "I am delighted that the Dino-Lite fluorescence microscopes are of good quality and affordable. Moreover, they are easy to use. Thus, we can enable more researchers to work after minimal training, and also enlist various sets of Dino-Lites that we have for educational purposes. It is easy to show the images on a laptop, and we can store both video and still images to study changes in tissue better."



# Dino-Lite special lighting - infrared (IR)

More information on [www.dino-lite.eu/infrared](http://www.dino-lite.eu/infrared)

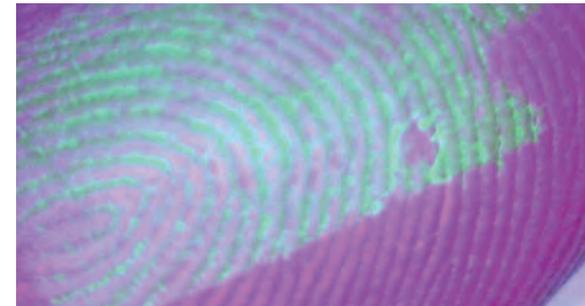


AM4113xx series

AM7013xx series

Dino-Lite handheld microscopes with infrared light or combinations between infrared and ultraviolet light.

-  2-year European warranty
-  Free SDK available for integration projects
-  Wireless streaming in combination with WF-10 unit
-  Regulatory approval: CE, FCC, ROHS
-  Included software: DinoCapture 2.0 (Windows), DinoXcope (Mac OS)



MODEL	RESOLUTION	MAGNIFICATION	CONNECTIVITY	LONG WORKING DISTANCE	MEASUREMENT & CALIBRATION	NUMBER OF LEDES	TYPE OF LEDES	EMISSION FILTER	EXCHANGABLE CAPS	POLARIZER	METAL HOUSING	ESD-SAFE	GENERATION	PRICE RANGE
<b>SPECIAL LIGHTING INFRARED</b>														
AM4115-FKT	1,3 Megapixel	20-220x	USB 2.0	-	✓	8	780 nm IR	✓	✓	-	-	-	Edge	€ 500 - 600
AM4115-FIT	1,3 Megapixel	20-220x	USB 2.0	-	✓	8	850 nm IR	✓	✓	-	-	-	Edge	€ 400 - 500
AM4115-FJT	1,3 Megapixel	20-220x	USB 2.0	-	✓	8	940 nm IR	✓	✓	-	-	-	Edge	€ 400 - 500
AD4113T-I2V	1,3 Megapixel	20-200x	USB 2.0	-	✓	4+4	390/400 nm UV + 940 nm IR	✓	✓	-	-	-	-	€ 300 - 400
AM4115T-JV	1,3 Megapixel	20-220x	USB 2.0	-	✓	4+4	390/400 nm UV + 940 nm IR	✓	✓	-	-	-	Edge	€ 500 - 600
AM7013M-FIT	5 Megapixel	10-70x, 200x	USB 2.0	-	✓	8	850 nm IR	✓	-	-	✓	✓	-	€ 500 - 600
AD7013MTL-FI2	5 Megapixel	20-90x	USB 2.0	✓	✓	8	940 nm IR	✓	✓	-	✓	✓	-	€ 600 - 700

# Dino-Lite special lighting - stroboscopic

More information on [www.dino-lite.eu/stroboscopic](http://www.dino-lite.eu/stroboscopic)

Dino-Lite handheld microscopes with stroboscopic technology make it possible to capture fast moving objects. The Dino-Lite with stroboscopic light feature takes perfect pictures by reducing motion blur, even under higher magnification. The strobomicroscope technology enables you to capture fast moving objects in a very easy and convenient way. It can be used for monitoring production lines in a manufacturing environment, observing living creatures in a laboratory environment or any other application with fast-moving objects.



AM3715TB



AM3713TB

**2** 2-year European warranty

 Regulatory approval: CE, FCC, ROHS

**SDK** Free SDK available for integration projects

 Included software: DinoCapture 2.0 (Windows), DinoXcope (Mac OS)

MODEL	RESOLUTION	MAGNIFICATION	CONNECTIVITY	LONG WORKING DISTANCE	MEASUREMENT & CALIBRATION	NUMBER OF LEDES	TYPE OF LEDES	FPS	EXCHANGABLE CAPS	POLARIZER	METAL HOUSING	ESD-SAFE	GENERATION	ADDITIONAL FEATURES	PRICE RANGE
<b>SPECIAL LIGHTING STROBOSCOPE</b>															
AM3713TB	VGA (640x480)	10 - 70x, 200x	USB 2.0	-	✓	8	white (stroboscopic)	60 fps	-	-	-	-	-	-	€ 300 - 400
AM3715TB	VGA (640x480)	20 - 220x	USB 2.0	-	✓	8	white (stroboscopic)	30 fps	✓	-	-	-	Edge	external trigger	€ 400 - 500