Видеомикроскопы D-Sub (VGA)

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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AM5216TF

Designed to provide extra-long working distance, the Dino-Lite Edge D-sub series AM5216TF offers minimum 108mm viewing distance at maximum 70X magnification. Through direct connection to VGA monitors, the AM5216TF can be well-suited for inspection, quality control, failure analysis, etc.





Extra-long working distance

With Edge optics quality, the ELWD lens reveals minute details with minimum 108mm working distance at maximum magnification of 70X, making it well-suited for observation requiring ample space between microscope and object.



High optical resolution

The superior optics adopted in the Edge series reveals the finest details, answering the needs of the most demanding microscopy applications.



D-sub interface

The D-sub interface allows Dino-Lite to deliver real-time images to a VGA monitor without the presence of a computer.



Microtouch button

This touch-sensitive button allows to freeze/unfreeze image or to control the LED on/off with a long-tap.

Interchangeable front caps

The interchangeable front caps are designed to be used with Dino-Lite Edge and Edge PLUS series models. The caps provide additional versatility to Dino-Lite digital microscope applications.



N3C-C / Close Cap

This cap protects the lens and LED lights from contamination of dust, debris, or moisture.



N3C-E / Extended Open Cap (12.5mm length)

This 12.5mm cap eases the task of finding and holding a fixed focus when using the Dino-Lite in handheld mode. This cap is compatible with standard and wide-field-of-view models.



N3C-O / Open Cap (9.5mm length)

This 9.5mm cap eases the task of finding and holding a fixed focus when using the Dino-Lite in handheld mode.

Note:

The included caps may vary per model. Please contact your local distributor or reseller for purchasing additional caps.

Information about working distance and field of view

M	WD	FOV (x)	FOV (y)	DOF
10	503	39.1	31.3	31.49
20	271	19.5	15.6	8.67
30	196	13.0	10.4	4.20
40	159	9.8	7.8	2.56
50	135	7.8	6.3	1.76
60	120	6.5	5.2	1.31
70	108	5.6	4.5	1.03

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

Model	AM5216TF Dino-Lite Edge
Interface	D-sub
Product Resolution	720p
Magnification	10x~70x
Frame Rate	60fps
Sensor	Color CMOS
Microtouch	Yes
Illumination	White Light, 8 LEDs
Unit Dimension	103 mm (H) x 32 mm (D)
Unit Weight	105g

AM5216ZT

View targets with minimal display lag at 60 fps in 720p with Dino-Lite AM5216ZT digital microscope. AM5216ZT connects to VGA monitors reducing overall system requirements without the need for a computer, ideal for stations with only monitors.





High quality optics

This Dino-Lite Edge series microscope maximizes observed details with state-of-the-art lens design and super sharp resolving power.



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.



D-sub Interface

Connect the AM5216ZT directly into a VGA monitor which supports 720p resolutions through the D-sub interface for absolute convenience. This model operates without the presence of a computer, making it suitable for managing your observations in a simple system configuration.



Adjustable polarizer

This model includes a freely adjustable polarizer that is useful for suppressing unwanted glare or reflection from object surface to any extent, making it ideal for most applications.



Microtouch button

Freeze video frames quickly and conveniently with the MicroTouch button. This small, round, touch-sensitive button allows you to easily freeze and observe photos with a single tap of a finger. To switch on/off the LED lights, simply hold the button for two seconds.



Adaptable cap design

This model features a detachable and interchangeable front cap that extends its range of use, as different caps are available for various applications. Removing the front cap provides greater working distance and access to the full magnification range.

Interchangeable Front Caps

The interchangeable front caps are designed to be used with Dino-Lite Edge and $Edge^{PLUS}$ series models. The caps provide additional versatility to Dino-Lite digital microscope applications.



N3C-C / Close Cap

This cap protects the lens and LED lights from contamination of dust, debris, or moisture.



N3C-D / Diffuser Cap

This is a translucent cap that partially softens the LED light.



N3C-D2 / Opal Diffuser Cap

This cap softens and evenly distributes the LED light.



N3C-E / Extended Open Cap (12.5mm length)

This 12.5mm cap eases the task of finding and holding a fixed focus when using the Dino-Lite in handheld mode. This cap is compatible with standard and wide-field-of-view models.



N3C-L / Long Cap (30mm length)

This cap assists users to find focus quickly at low magnification when it touches surface.



N3C-O / Open Cap (9.5mm length)

This 9.5mm cap eases the task of finding and holding a fixed focus when using the Dino-Lite in handheld mode.



N3C-S / Sidelight Cap

Use the sidelight cap to light from the side for highlighting the texture and depth of targets at short working distances.

Note:

The included caps may vary per model. Please contact your local distributor or reseller for purchasing additional caps.

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 Unit = mm WD = working distance (without front cap)

FOV = field of view

DOF= depth of field

Model	AM5216ZT Dino-Lite Edge
Interface	D-sub
Product Resolution	720p
Magnification Rate	20x~220x
Sensor	Color CMOS
Frame Rate	Fix 60fps
Microtouch	LED On/Off – Tap and hold for two seconds Freeze/unfreeze frame – Tap
Polarizer	Yes
Illumination	White Light, 8 LEDs
Unit Weight	105g
Unit Dimension	103 mm (H) x 33 mm (D)
Package Dimensions	16cm(L) x 16cm(W) x 6cm(H)

AM5216ZTL

The Dino-Lite AM5216ZTL is one of the latest Edge series D-sub microscopes with long working distance (LWD) feature. When compared to standard magnification models like the AM5216T, this LWD model yields higher magnification and larger depth of field under the same working distance though the highest attainable magnification is smaller. This feature provides greater clearance between the microscope and the viewing object, which can be helpful for applications such as repairing or assembling.

The AM5216ZTL comes with an adjustable polarizer to help suppress unwanted glare or reflections. It is suitable for a wide range of applications including the inspection, repair and assembly involving reflective or translucent materials, with examples such as soldering, quality inspection, or jewelry fabrication.

The MicroTouch button on this model is configured to quickly freeze video frames with a single tap of a finger, or to control on/off the LEDs. The scroll lock on the magnification dial is able to secure the dial and fix the focus and magnification, which can be helpful to prevent unintentional rotations of the dial in some applications.

The AM5216ZTL does not require a computer or bundled software to operate, but instead functions through a VGA monitor connected via the D-sub interface. Thanks to the simplicity of system configuration and minimized maintenance requirement, the largely reduced overall system and operating cost together with the high image quality makes it ideal for use beyond industrial application.





High quality optics

This Dino-Lite Edge series microscope maximizes observed details with state-of-the-art lens design and super sharp resolving power.



D-sub Interface

Connect the AM5216ZTL directly into a VGA monitor which supports 720p resolutions through the D-sub interface for absolute convenience. This model operates without the presence of a computer, making it suitable for managing your observations in a simple system configuration.



Largest magnification range with long working distance

The wide magnification range (10x to 140x) is achieved with long working distances greater than 29mm (without front cap), which can be helpful when clearance is required between the microscope and the viewing object.



Adjustable polarizer

This model includes a freely adjustable polarizer that is useful for suppressing unwanted glare or reflection from object surface to any extent, making it ideal for most applications.



Microtouch button

Freeze video frames quickly and conveniently with the MicroTouch button. This small, round, touch-sensitive button allows you to easily freeze and observe photos with a single tap of a finger. To switch on/off the LED lights, simply hold the button for two seconds.



Adaptable cap design

This model features a detachable and interchangeable front cap that extends its range of use, as different caps are available for various applications. Removing the front cap provides greater working distance and access to the full magnification range.

Interchangeable Front Caps

The interchangeable front caps are designed to be used with Dino-Lite Edge and Edge PLUS series models. The caps provide additional versatility to Dino-Lite digital microscope applications.



N3C-C / Close Cap

This cap protects the lens and LED lights from contamination of dust, debris, or moisture.



N3C-D / Diffuser Cap

This is a translucent cap that partially softens the LED light.



N3C-D2 / Opal Diffuser Cap

This cap softens and evenly distributes the LED light.



N3C-E / Extended Open Cap (12.5mm length)

This 12.5mm cap eases the task of finding and holding a fixed focus when using the Dino-Lite in handheld mode. This cap is compatible with standard and wide-field-of-view models.



N3C-L / Long Cap (30mm length)

This cap assists users to find focus quickly at low magnification when it touches surface.



N3C-O / Open Cap (9.5mm length)

This 9.5mm cap eases the task of finding and holding a fixed focus when using the Dino-Lite in handheld mode.



N3C-S / Sidelight Cap

Use the sidelight cap to light from the side for highlighting the texture and depth of targets at short working distances.

Note

The included caps may vary per model. Please contact your local distributor or reseller for purchasing additional caps.

Information about working distance and field of view - AM5216ZTL (R6A)

M	WD	FOV (x)	FOV (y)	DOF
20	112.5	19.5	11.0	4.5
30	72.5	13.0	7.3	3.1
40	54.5	9.8	5.5	1.8
50	43.5	7.8	4.4	1.2
60	37.5	6.5	3.7	0.9
70	33.7	5.6	3.2	0.6
80	31.3	4.9	2.8	0.5
90	29.9	4.3	2.4	0.37
100	29.2	3.9	2.2	0.28
110	29.1	3.5	2.0	0.22
120	29.3	3.3	1.9	0.17
130	29.8	3.0	1.7	0.12
140	30.5	2.8	1.6	0.09

Information about working distance and field of view - AM5216ZTL (R6)

M	WD	FOV (x)	FOV (y)	DOF
10	234.5	39.0	31.5	20.0
20	112.5	19.5	15.6	4.5
30	72.5	13.0	10.4	3.1
40	54.5	9.8	7.8	1.8
50	43.5	7.8	6.2	1.2
60	37.5	6.5	5.2	0.9
70	33.7	5.6	4.5	0.6
80	31.3	4.9	3.9	0.5
90	29.9	4.3	3.5	0.37
100	29.2	3.9	3.1	0.28
110	29.1	3.5	2.8	0.22
120	29.3	3.3	2.6	0.17
130	29.8	3.0	2.4	0.12
140	30.5	2.8	2.2	0.09

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

Model	AM5216ZTL Dino-Lite Edge
Interface	D-sub
Product Resolution	720p
Magnification Rate	10x~140x
Sensor	Color CMOS
Frame Rate	Fix 60fps
Microtouch	LED On/Off – Tap and hold for two seconds Freeze/unfreeze frame – Tap
Illumination	White Light, 8 LEDs
Polarizer	Yes
Unit Weight	105g
Unit Dimension	10.5cm (H) x 3.2cm (D)
Package Dimensions	16cm(L) x 16cm(W) x 6cm(H)

AM4116T



The Dino-Lite AM4116T connects directly to a VGA screen via a VGA (D-SUB) connector. It offers a high frame rate of up to 60fps at 800x600 resolution and has enhanced low light visibility so you can see clearly in any situation.



The AM4116T is the ideal choice in situations, where real time images are vital. The LEDs can be switched on and off by using the Microtouch sensor on the microscope.

» Also available: AM4116ZT with polarizer & All these models are also available in a robust metal housing

ADDITIONAL INFO

Housing material:

DETAILS	
Dino-Lite range:	Dino-Lite High Speed
LIGHTING	
Light/ LED type:	White
Number of LEDs:	8
LED on/off switchable:	Yes
Infrared filter:	IR cut-filter >650 nm
Diffuser available:	MSAA111A1 (optional accessory)
Emission filter:	No
Polarizer:	No
OPTICS	
Magnification:	10-70x, 200x
Macro zoom:	No
Working distance:	Standard
Lens type:	Glass with anti-reflection coating
SENSOR	
Sensor type:	CMOS
Resolution:	800x600 pixels
Maximum frame rate:	60 fps
COMPATIBILITY	
Interface:	VGA (D-Sub)
Operating system:	-
Included software:	-
Supported image formats (Windows):	-
Supported video formats (Windows):	-
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
Imaging standards:	-
HOUSING	

Composite/ plastic housing

Magnification lock:	Yes
Dimensions:	10.5cm (L) x 3.2cm (D)
Weight:	95g
Cable length:	0.6m

FEATURES

Special feature:	No
Measurement:	No
Calibration:	No
Microtouch sensor:	Yes
ESD safe:	No

INFORMATION

Package contents:	Microscope, Carry pouch, Power adapter, User manual
Warranty information:	2 years European warranty
Regulatory approval:	CE, FCC, ROHS
Price range:	€200,00 - €350,00

Working distance/ field of view/ depth of

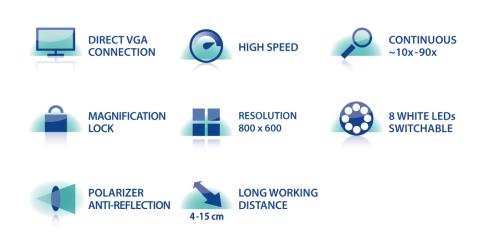
field:

MAGNIFICATION RATE	WORKING DISTANCE	FIELD OF VIEW(X)	FIELD OF VIEW(Y)	DEPTH OF FIELD
20	51.7	21.0	15.7	8
30	24.1	14.0	10.5	4
40	11.0	10.5	7.9	2.5
50	3.8	8.4	6.3	2
60	-0.6	7.0	5.2	-
200	-0.4	2.1	1.6	0.45
210	0.6	2.0	1.5	-
220	1.7	1.9	1.4	-
230	2.8	1.8	1.4	0.42
Listed values may differ slightly				Unit = mm

AM4116ZTL



The Dino-Lite AM4116ZTL connects directly to a VGA screen via a VGA (D-SUB) connector. It offers a high frame rate of up to 60fps at 800x600 resolution and has enhanced low light visibility so you can see clearly in any situation.



The built-in adjustable polarizer reduces glare and reflection on shiny objects. Together with the long working distance of up to 15 centimetres the AM4116ZTL is the ideal choice in situations, where real time images are vital, such as working on PCB's or other miniature objects. The LEDs can be switched on and off by using the Microtouch sensor on the microscope.

» Also available: AM4116TL without polarizer & All these models are also available in a robust metal housing

ADDITIONAL INFO

HOUSING

DETAILS	
Dino-Lite range:	Dino-Lite High Speed
LIGHTING	
Light/ LED type:	White
Number of LEDs:	8
LED on/off switchable:	Yes
Infrared filter:	IR cut-filter >650 nm
Diffuser available:	No
Emission filter:	No
Polarizer:	Yes, linear
OPTICS	
Magnification:	10-90x
Macro zoom:	No
Working distance:	Long
Lens type:	Glass with anti-reflection coating
SENSOR	
Sensor type:	CMOS
Resolution:	800x600 pixels
Maximum frame rate:	60 fps
COMPATIBILITY	
Interface:	VGA (D-Sub)
Operating system:	-
Included software:	-
WiFi:	no
Supported image formats (Windows):	-
Supported video formats (Windows):	-
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
Imaging standards:	-

Housing material:	Composite/ plastic housing
Magnification lock:	Yes
Dimensions:	10.5cm (L) x 3.2cm (D)
Weight:	95g
Cable length:	0.6m
FEATURES	
Special feature:	No
Measurement:	No
Calibration:	No
Microtouch sensor:	Yes
ESD safe:	No
INFORMATION	
Package contents: User manual	Microscope, Carry pouch, Power adapter, ZT-Z-CC1 Cap closure,
Warranty information:	2 years European warranty

Working distance/ field of view/ depth of

field:

Price range:

Regulatory approval:

MAGNIFICATION RATE	WORKING DISTANCE	FIELD OF VIEW(X)	FIELD OF VIEW(Y)	DEPTH OF FIELD
20	160.5	19.8	14.9	6
30	110.4	13.2	9.9	3.4
40	86.7	9.9	7.4	2.2
50	73.6	7.9	5.9	1.65
60	65.7	6.6	5.0	-
70	60.8	5.7	4.2	-
80	57.8	5.0	3.7	-
90	56.1	4.4	3.3	0.8
Listed values may differ slightly				Unit = mm

CE, FCC, ROHS

€350,00 - €550,00

AM5216ZT



The Dino-Lite AM5216ZT connects directly to a VGA screen via a VGA (D-SUB) connector. It offers a high frame rate of up to 60fps at 1280x720 resolution, resulting in crystal clear images.



The AM5216ZT is the ideal choice in situations, where real time images are vital, such as working on PCB's or other miniature objects. By tapping the Microtouch sensor on the microscope, the image can be frozen for inspection of important details and by pressing the Microtouch sensor for 2 seconds the LEDs can be switched on and off. The built-in adjustable polarizer reduces glare and reflection on shiny objects, such as metal surfaces, electronics, plastics etc. (The AM5216ZT replaces model AM5116ZT.)

» Also available: AM5216T without polarizer

ADDITIONAL INFO

HOUSING

Dino-Lite range: LIGHTING Light/ LED type: White Number of LEDs: 8 LED on/off switchable: Yes Infrared filter: IR cut-filter > 650 nm Diffuser available: No Emission filter: No Polarizer: Yes, linear OPTICS Magnification: 20-220x
Light/ LED type: White Number of LEDs: 8 LED on/off switchable: Yes Infrared filter: IR cut-filter > 650 nm Diffuser available: No Emission filter: No Polarizer: Yes, linear OPTICS Magnification: 20-220x
Light/LED type: Number of LEDs: 8 LED on/off switchable: Yes Infrared filter: IR cut-filter > 650 nm Diffuser available: No Emission filter: No Polarizer: Yes, linear OPTICS Magnification: 20-220x
Number of LEDs:8LED on/off switchable:YesInfrared filter:IR cut-filter >650 nmDiffuser available:NoEmission filter:NoPolarizer:Yes, linearOPTICSMagnification:20-220x
LED on/off switchable: Infrared filter: IR cut-filter >650 nm Diffuser available: No Emission filter: No Polarizer: Yes, linear OPTICS Magnification: 20-220x
Infrared filter: IR cut-filter >650 nm Diffuser available: No Emission filter: No Polarizer: Yes, linear OPTICS Magnification: 20-220x
Diffuser available: Emission filter: No Polarizer: Yes, linear OPTICS Magnification: 20-220x
Emission filter: Polarizer: Yes, linear OPTICS Magnification: 20-220x
Polarizer: Yes, linear OPTICS Magnification: 20-220x
OPTICS Magnification: 20-220x
Magnification: 20-220x
Macro zoom: No
Working distance: Standard
Lens type: Glass with anti-reflection coating
SENSOR
Sensor type: CMOS
Resolution: 1280x720 (720p)
Maximum frame rate: 60 fps
COMPATIBILITY
Interface: VGA (D-Sub)
Operating system: -
Included software: -
WiFi: Wireless-ready, requires the WF-20 adapter (optional)
Supported image formats (Windows): -
Supported image formats (Windows): - Supported video formats (Windows): -
Supported video formats (Windows): -

Housing material:	Composite/ plastic housing
Magnification lock:	Yes
Dimensions:	10.5cm (L) x 3.2cm (D)
Weight:	105g
Cable length:	0.6m
FEATURES	
Special feature:	No
Measurement:	No
Calibration:	No
Microtouch sensor:	Yes
ESD safe:	No
INFORMATION	
Package contents: manual	Microscope, Carry pouch, Power adapter, Front cover box, User
Warranty information:	2 years European warranty

Working distance/ field of view/ depth of

field:

Regulatory approval:

Price range:

MAGNIFICATION RATE	WORKING DISTANCE	FIELD OF VIEW(X)	FIELD OF VIEW(Y)	DEPTH OF FIELD
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	-
100	4.1	3.9	3.1	-
150	5.6	2.6	2.1	-
200	9.9	2.0	1.6	-
220	11.9	1.8	1.4	0.1
Listed values may differ slightly				Unit = mm

CE, FCC, ROHS

€350,00 - €550,00

AM5216ZTL



The Dino-Lite AM5216ZTL connects directly to a VGA screen via a VGA (D-SUB) connector. It offers a high frame rate of up to 60fps at 1280x720 resolution, resulting in crystal clear images.



Together with the long working distance of up to 15 centimeters the AM5216ZTL is the ideal choice in situations, where real time images are vital, such as working on PCB's or other miniature objects. By tapping the Microtouch sensor on the microscope, the image can be frozen for inspection of important details and by pressing the Microtouch sensor for 2 seconds the LEDs can be switched on and off. The built-in adjustable polarizer reduces glare and reflection on shiny objects, such as metal surfaces, electronics, plastics etc. (The AM5216ZTL replaces model AM5116ZTL.)

» Also available: AM5216TL without polarizer

ADDITIONAL INFO

Imaging standards:

HOUSING

DETAILS	
Dino-Lite range:	Dino-Lite High Speed
LIGHTING	
Light/ LED type:	White
Number of LEDs:	8
LED on/off switchable:	Yes
Infrared filter:	IR cut-filter >650 nm
Diffuser available:	No
Emission filter:	No
Polarizer:	Yes, linear
OPTICS	
Magnification:	10-140x
Macro zoom:	No
Working distance:	Long
Lens type:	Glass with anti-reflection coating
SENSOR	
Sensor type:	CMOS
Resolution:	1280x720 (720p)
Maximum frame rate:	60 fps
COMPATIBILITY	
Interface:	VGA (D-Sub)
Operating system:	-
Included software:	-
WiFi:	no
Supported image formats (Windows):	-
Supported video formats (Windows):	=
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
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Housing material:	Composite/ plastic housing
Magnification lock:	Yes
Dimensions:	10.5cm (L) x 3.2cm (D)
Weight:	105g
Cable length:	0.6m

FEATURES

Special feature:	No
Measurement:	No
Calibration:	No
Microtouch sensor:	Yes
ESD safe:	No

INFORMATION

Package contents:	Microscope, Carry pouch, Power adapter, Front cover box, User
manual	
Warranty information:	2 years European warranty
Regulatory approval:	CE, FCC, ROHS
Price range:	€350,00 - €550,00

Working distance/ field of view/ depth of

field:

MAGNIFICATION RATE	WORKING DISTANCE	FIELD OF VIEW(X)	FIELD OF VIEW(Y)	DEPTH OF FIELD
10	234.5	39.0	22	12
20	112.5	19.5	11	4.5
30	72.5	13.0	7.3	3.1
40	54.5	9.8	5.5	1.8
50	43.5	7.8	4.4	1.2
60	37.5	6.5	3.7	0.9
70	33.7	5.6	3.2	0.6
80	31.3	4.9	2.8	0.5
90	29.9	4.3	2.4	0.37
100	29.2	3.9	2.2	0.28
110	29.1	3.5	2	0.22
120	29.3	3.3	1.9	0.17
130	29.8	3.0	1.7	0.12
140	30.5	2.8	1.6	0.09
Listed values may differ slightly				Unit = mm

Dino-Lite Edge Series

AM5216ZT



VGA Connection with Polarizer

The official magnification range of this microscope is 20x to 220x, however, this model is capable of focusing at 10x at longer distances.

Some models can even focus below 5x. Please contact us for more information.

The Dino-Lite AM5216ZT Edge Series features a High Definition VGA connection and improved optics for sharper images. It easily allows for the observation of objects at touch proximity within its wide magnification range of 20x – 220x. Capable of 60 frames per second at 720p (1280 x 720), this model is ideal for observing specimens effectively with minimum lag while in motion. Built on is an adjustable polarizer to help suppress unwanted glare or reflections. With this feature, this model is suitable for a wide range of applications including the inspection, repair and assembly involving reflective or translucent materials, with examples such as soldering, quality inspection, or jewelry fabrication. No computer or software required for this model that connects directly to a monitor or TV with VGA connections.

R4 & R6 Versions:

- R4: MicroTouch is configured to quickly freeze video frames with a single tap of a finger, or hold to toggle the LEDs on/off.
- R6: Hold the Microtouch for 1 second to freeze frame, tap it again to unfreeze.
 - Press and hold the Microtouch for 2 seconds till the LED flash twice to shut the light off and another 2 seconds to turn it on.

Magnification Range	20x - 220x	Connection Type	VGA
Resolution	720p	Body Material	ABS Plastic
Frame Rate (max)	60 fps	Dimensions	10.5cm (L) x 3.2cm (D) (4.13" x 1.26")
Magnification Lock	Yes	Weight	105g (3.7 oz)
Microtouch Sensor	Yes	Cable Length	
LEDs	White (8)	Warranty Period	2 years
Polarization	Yes	Manufactured in	Taiwan
Working Distance Type	Standard	Regulatory Approval	CE, FCC

In the Box	Microscope, AC Adapter,	
	Alternate end caps	

Magnification & Working Distance Chart

Magnification	20	30	40	50	100	150	200	220
Working Distance	60.2	33.5	20.9	13.9	4.1	5.6	9.9	11.9
Field of View	19.5 x 15.6	13 x 10.4	9.8 x 7.8	7.8 x 6.3	3.9 x 3.1	2.6 x 2.1	2 x 1.6	1.8 x 1.4
Depth of Field	2.5	1.8	1.5	-	-	-	-	0.1

^{*} Units shown in millimeter

Dino-Lite Edge Series

AM5216ZTL



VGA Connection with Long Working Distance & Polarizer

The official magnification range of this microscope is 10x to 140x, however, this model is capable of focusing at 5x at longer distances.

Some models can even focus below 5x. Please contact us for more information.

The Dino-Lite AM5216ZTL Edge Series features a High Definition VGA connection with improved optics for sharper images as well as extended working distance with a magnification range of 10x - 140x. Capable of 60 frames per second at 720p (1280 x 720), this model is ideal for observing specimens effectively with minimum lag while in motion. Built onto the AM5216ZTL is an adjustable polarizer to help suppress unwanted glare or reflections. With this feature, this model is suitable for a wide range of applications including the inspection, repair and assembly involving reflective or translucent materials, with examples such as soldering, quality inspection, or jewelry fabrication. No computer or software is required for this model that connects directly to a monitor or TV with VGA connections.

R4 & R6 Versions:

- R4: MicroTouch is configured to quickly freeze video frames with a single tap of a finger, or hold to toggle the LEDs on/off.
- R6: Hold the Microtouch for 1 second to freeze frame, tap it again to unfreeze.

 Press and hold the Microtouch for 2 seconds till the LED flash twice to shut the light off and another 2 seconds to turn it on.

Magnification Range	20x - 220x	Connection Type	VGA
Resolution	720p	Body Material	ABS Plastic
Frame Rate (max)	60 fps	Dimensions	10.5cm (L) x 3.2cm (D) (4.13" x 1.26")
Magnification Lock	Yes	Weight	105g (3.7 oz)
Microtouch Sensor	Yes	Cable Length	
LEDs	White (8)	Warranty Period	2 years
Polarization	Yes	Manufactured in	Taiwan
Working Distance Type	Standard	Regulatory Approval	CE, FCC

In the Box	Microscope, AC Adapter, Alternate end caps	

Magnification & Working Distance Chart

Magnification	10	20	30	40	50	60	70	80	90	100	110	120	130	140
Working Distance	234.5	112.5	72.5	54.5	43.5	37.5	33.7	31.3	29.9	29.2	29.1	29.3	29.8	30.5
Field of View	39.0 x 31.2	19.5 x 15.6	13.0 x 10.4	9.8 x 7.8	7.8 x 6.2	6.5 x 5.2	5.6 x 4.5	4.9 x 3.9	4.3 x 3.5	3.9 x 3.1	3.5 x 2.8	3.3 x 2.6	3.0 x 2.4	2.8 x 2.2
Depth of Field	12	4.5	3.1	1.8	1.2	0.9	0.6	0.5	0.37	0.28	0.22	0.17	0.12	0.09

^{*} Units shown in millimeter

Dino-Lite Edge Series

AM5216ZTF



TV VGA with Polarizer, MicroTouch & Extra-long WD

The official magnification range of this microscope is 10x - 70x, however, this model is capable of focusing at 1x at longer distances.

Please contact us for more information.

The AM5216ZTF provides extra-long working distance with a magnification range of 1x – 70x and features a High Definition VGA connection and improved optics for sharper images. It easily allows for the observation of objects from further away with a minimum working distance of 115mm at 70x. Capable of 60 frames per second at 720p (1280 x 720), this model is ideal for observing specimens effectively with minimum lag while in motion. This model is suitable for a wide range of applications including the inspection, repair and assembly involving reflective or translucent materials, with examples such as soldering, quality inspection, or jewelry fabrication. No computer or software required for this model that connects directly to a monitor or TV with VGA connections.

Magnification Range	20x - 220x	Connection Type	VGA
Resolution	720p	Body Material	ABS Plastic
Frame Rate (max)	60 fps	Dimensions	10.5cm (L) x 3.2cm (D) (4.13" x 1.26")
Magnification Lock	Yes	Weight	105g (3.7 oz)
Microtouch Sensor	Yes	Cable Length	
LEDs	White (8)	Warranty Period	2 years
Polarization	Yes	Manufactured in	Taiwan
Working Distance Type	Standard	Regulatory Approval	CE, FCC
In the Box	Microscope, AC Adapter, Alternate end caps		

Magnification & Working Distance Chart

Magnification	10	20	30	40	50	60	70
Working Distance	503	271	196	159	135	120	108
Field of View	39.1 x 31.3	19.5 x 15.6	13.0 x 10.4	9.8 x 7.8	7.8 x 6.3	6.5 x 5.2	5.6 x 4.5
Depth of Field	31.49	8.67	4.2	2.56	1.76	1.31	1.03

^{*} Units shown in millimeter

Dino-Lite Edge Series

AM5216TF



TV VGA with MicroTouch & Extra-long WD

The official magnification range of this microscope is 10x - 70x, however, this model is capable of focusing at 1x at longer distances.

Please contact us for more information.

The AM5216TF provides Extra-long Working Distance (ELWD) with a magnification range of 1x – 70x and features a High Definition VGA connection and improved optics for sharper images. Capable of 60 frames per second at 720p (1280 x 720), this model is ideal for observing specimens effectively with minimum lag while in motion.

With Edge optics quality, the ELWD lens reveals minute details with minimum 108mm working distance at maximum magnification of 70x, making it well-suited for observations requiring ample space between microscope and object. This model is suitable for a wide range of applications including the inspection, repair and assembly involving reflective or translucent materials, with examples such as soldering, quality inspection, or jewelry fabrication. No computer or software required for this model that connects directly to a monitor or TV with VGA connections.

Magnification	20x - 220x	Connection Type	VGA
Range			
Resolution	720p	Body Material	ABS Plastic
Frame Rate (max)	60 fps	Dimensions	10.5cm (L) x 3.2cm (D) (4.13" x 1.26")
Magnification Lock	Yes	Weight	105g (3.7 oz)
Microtouch Sensor	Yes	Cable Length	
LEDs	White (8)	Warranty Period	2 years
Polarization	Yes	Manufactured in	Taiwan
Working Distance Type	Standard	Regulatory Approval	CE, FCC
In the Box	Microscope, AC Adapter, Alternate end caps		

Magnification & Working Distance Chart

Magnification	10	20	30	40	50	60	70
Working Distance	503	271	196	159	135	120	108
Field of View	39.1 x 31.3	19.5 x 15.6	13.0 x 10.4	9.8 x 7.8	7.8 x 6.3	6.5 x 5.2	5.6 x 4.5
Depth of Field	31.49	8.67	4.2	2.56	1.76	1.31	1.03

^{*} Units shown in millimeter

Dino-Lite Premier Series

AM4116ZT



VGA Connection with Polarizer

The Dino-Lite AM4116ZT is a VGA output microscope with a built-on polarizer and 800 x 600 resolution, that connects directly to computer monitors or TV with VGA (DE15, D-SUB) input. Simply plug a standard VGA cable into the VGA adapter on the microscope cord and plug directly into your computer monitor and the image will display right away. This model has a magnification range of 10x – 50x with a maximum of 240x and provides real time imaging at 60fps. The adjustable polarizer is designed to reduce the effects of glare from reflective surfaces to providing a clear view of the subject.

Magnification Range	20x - 220x	Connection Type	VGA
Resolution	720p	Body Material	ABS Plastic
Frame Rate (max)	60 fps	Dimensions	10.5cm (L) x 3.2cm (D) (4.13" x 1.26")
Magnification Lock	Yes	Weight	105g (3.7 oz)
Microtouch Sensor	Yes	Cable Length	
LEDs	White (8)	Warranty Period	2 years
Polarization	Yes	Manufactured in	Taiwan
Working Distance Type	Standard	Regulatory Approval	CE, FCC
In the Box	Microscope, AC Adapter, Alternate end caps		

Magnification & Working Distance Chart

Magnification	20	30	40	50	60	200	210	220	230
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Working Distance	51.7	24.1	11	3.8	-0.6	-0.4	0.6	1.7	2.8
Field of View	21 x	14 x	10.5 x	8.4 x	7.0 x	2.1 x	2.0 x	1.9 x	1.8 x
	15.7	10.5	7.9	6.3	5.2	1.6	1.5	1.4	1.4

Depth of Field

* Units shown in millimeter

Dino-Lite Premier Series

AM4116ZTL



VGA Connection Long Working Distance with Polarizer

The Dino-Lite AM4116ZTL is a VGA output microscope with a 800 x 600 resolution, built-on polarizer and longer working distance that connects directly to computer monitors or TV with VGA (DE15, D-SUB) input. Simply plug a standard VGA cable into the VGA adapter on the microscope cord and plug directly into your computer monitor and the image will display right away. This model has a magnification range of 10x – 90x with a longer working distance from your subject and provides real time imaging at 60fps. The adjustable polarizer is designed to reduce the effects of glare from reflective surfaces to providing a clear view of the subject.

Magnification Range	20x - 220x	Connection Type	VGA	
Resolution	720p	Body Material	ABS Plastic	
Frame Rate (max)	60 fps	Dimensions	10.5cm (L) x 3.2cm (D) (4.13" x 1.26")	
Magnification Lock	Yes	Weight	105g (3.7 oz)	
Microtouch Sensor	Yes	Cable Length		
LEDs	White (8)	Warranty Period	2 years	
Polarization	Yes	Manufactured in	Taiwan	
Working Distance Type	Standard	Regulatory Approval	CE, FCC	
In the Box	Microscope, AC Adapter, Alternate end caps			

Magnification & Working Distance Chart

Magnification	20	30	40	50	60	70	80	90
Working Distance	151	101	77.2	64.1	56.2	51.3	48.3	46.6
Field of View	21.0 x 15.7	14.3 x 10.5	10.5 x 7.9	8.4 x 6.3	7.0 x 5.2	6.0 x 4.5	5.0 x 3.9	4.0 x 3.5

Depth of Field

^{*} Units shown in millimeter

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