

Видеомикроскопы TV (RCA)

Технические характеристики

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AM5212T

The AM5212T is the latest addition to the Edge series microscopes with AV/TV output interface. Combined with totally revamped optics and 960H sensor technology, it is the latest upgrade over existing Premier series TV-interface models such as the AM4112 and AM412. Also, like all standard magnification models on the Edge series, this microscope incorporates a 20X to 220X magnifying range.

As member of the Dino-Lite Edge series microscopes, there are interchangeable front caps available to suit different purposes. The current available options are close cap, open cap, diffuser cap, extended cap, long cap, and sidelight cap.

The MicroTouch button on the AM5212T is configured to conveniently control on/off the LEDs with a simple tap of a finger. 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 AM5212T does not require a computer or bundled software to operate, but instead works by connecting it to a regular TV using the composite video cable. This microscope is available in either NTSC or PAL video standards depending on your region of residence. 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 applications.



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.



TV connectivity

Connect the microscope to a TV monitor via the composite video cable for either NTSC or PAL video standards in 960 x 480 high resolutions.



MicroTouch button

Switch on/off the LEDs quickly and conveniently with the MicroTouch button. This small, round, touch-sensitive button is configured to allow you take control of the lighting during observation with a simple tap of a finger.










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)
20	40.5	18
50	11	8.5
100	5	4.5
150	7	3
200	-0.6	2.2

M = magnification rate
Unit = mm

WD = working distance (without front cap)

FOV = field of view

DOF= depth of field

Model	AM5212T Dino-Lite Edge
Interface	Composite video
Product Resolution	960H
Magnification Rate	20x~220x
Microtouch	Tap to turn On/Off LEDs
Illumination	White Light, 8 LEDs
Unit Weight	100g
Unit Dimension	10.5cm (H) x 3.2cm (D)
Package Dimensions	16cm(L) x 16cm(W) x 6cm(H)

AM5212TL

The Dino-Lite AM5212TL is one of the latest TV-interface with long working distance (LWD) feature. 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.

Combined with totally revamped optics and high resolution 960H, it is the latest upgrade over its predecessors such as the AM4112 and AM5212 microscopes with TV output. Also, like all standard magnification models on the Edge series, this microscope incorporates a 10X to 140X magnifying range and interchangeable front caps available to suit different purposes. The current available options are close cap, open cap, diffuser cap, extended cap, long cap, and sidelight cap.

The AM5212TL does not require a computer or bundled software to operate and works simply by connecting it to a conventional TV using the supplied composite video cable. It is available in either NTSC or PAL video standards depending on your region of residence.



High quality optics

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



TV connectivity

Connect the microscope to a TV monitor via the composite video cable for either NTSC or PAL video standards in 960 x 480 high resolutions.



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.



MicroTouch button

Switch on/off the LEDs quickly and conveniently with the MicroTouch button. This small, round, touch-sensitive button is configured to allow you take control of the lighting during observation with a simple tap of a finger.










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)
20	159	34
50	48.5	11
100	31	5
150	32	3.1

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

Model	AM5212TL Dino-Lite Edge
Interface	Composite video
Product Resolution	960H
Magnification Rate	10x~140x
Microtouch	Tap to turn On/Off LEDs
Illumination	White Light, 8 LEDs
Unit Weight	100g
Unit Dimension	10.5cm (H) x 3.2cm (D)
Package Dimensions	16cm(L) x 16cm(W) x 6cm(H)

AM5212ZT

The Dino-Lite AM5212ZT is one of the latest TV-interface microscopes that feature an adjustable polarizer to help suppress unwanted glare or reflections. This Edge series 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.

Combined with totally revamped optics and high resolution 960H, it is the latest upgrade over its predecessors such as the AM4112 and AM412 microscopes with TV output. Also, like all standard magnification models on the Edge series, this microscope incorporates a 20X to 220X magnifying range and interchangeable front caps available to suit different purposes. The current available options are close cap, open cap, diffuser cap, extended cap, long cap, and sidelight cap.

The AM5212ZT does not require a computer or bundled software to operate and works simply by connecting it to a conventional TV using the supplied composite video cable. It is available in either NTSC or PAL video standards depending on your region of residence.



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.



TV connectivity

Connect the microscope to a TV monitor via the composite video cable for either NTSC or PAL video standards in 960 x 480 high resolutions.



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

Switch on/off the LEDs quickly and conveniently with the MicroTouch button. This small, round, touch-sensitive button is configured to allow you take control of the lighting during observation with a simple tap of a finger.










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)
20	40.5	18
50	11	8.5
100	5	4.5
150	7	3
200	-0.6	2.2

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

Model	AM5212ZT Dino-Lite Edge
Interface	Composite video
Product Resolution	960H
Magnification Rate	20x~220x
Microtouch	Tap to turn On/Off LEDs
Illumination	White Light, 8 LEDs
Polarizer	Yes
Unit Weight	100g
Unit Dimension	10.5cm (H) x 3.2cm (D)
Package Dimensions	16cm(L) x 16cm(W) x 6cm(H)

AM5212ZTL

The Dino-Lite AM5212ZTL is one of the latest TV-interface microscopes that feature an adjustable polarizer to help suppress unwanted glare or reflections with long working distance (LWD) feature. 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, quality inspection, or jewelry fabrication.

Combined with totally revamped optics and high resolution 960H, it is the latest upgrade over its predecessors such as the AM4112 and AM5212 microscopes with TV output. Also, like all standard magnification models on the Edge series, this microscope incorporates a 10X to 140X magnifying range and interchangeable front caps available to suit different purposes. The current available options are close cap, open cap, diffuser cap, extended cap, long cap, and sidelight cap.

The AM5212ZTL does not require a computer or bundled software to operate and works simply by connecting it to a conventional TV using the supplied composite video cable. It is available in either NTSC or PAL video standards depending on your region of residence.



High quality optics

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



TV connectivity

Connect the microscope to a TV monitor via the composite video cable for either NTSC or PAL video standards in 960 x 480 high resolutions.



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

Switch on/off the LEDs quickly and conveniently with the MicroTouch button. This small, round, touch-sensitive button is configured to allow you take control of the lighting during observation with a simple tap of a finger.










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.

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	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)
20	159	34
50	48.5	11
100	31	5
150	32	3.1

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

Model	AM5212ZTL Dino-Lite Edge
Interface	Composite video
Product Resolution	960H
Magnification Rate	10x~140x
Microtouch	Tap to turn On/Off LEDs
Illumination	White Light, 8 LEDs
Polarizer	Yes
Unit Weight	100g
Unit Dimension	10.5cm (H) x 3.2cm (D)
Package Dimensions	16cm(L) x 16cm(W) x 6cm(H)

AM4112PT (END OF LIFE)



Dino-Lite television model with improved color rendering. It features the possibility to turn the LED's on and off by using the sensor on the microscope. This model Dino-Lite AM4112PT is connected to the television (PAL) instead of USB.



DIRECT TV PAL
RCA CONNECTION



HIGH SPEED



ADJUSTABLE
~10-70x & 200x



MAGNIFICATION
LOCK



RESOLUTION
628 x 586



8 WHITE LEDs
SWITCHABLE



STANDARD
WORKING
DISTANCE

This can be a major advantage in situations where real time images are vital, such as working on PCB's or other miniature objects. It can also be directly connected to a beamer or digital blackboard without using a PC.

» Also available: AM4112PZT with polarizer. All these models are also available in a robust metal housing

ADDITIONAL INFO

DETAILS

Dino-Lite range:	Dino-Lite High Speed
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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:	628x586 pixels
Maximum frame rate:	30 fps at 27 MHz

COMPATIBILITY

Interface:	TV (RCA) PAL
Operating system:	-
Included software:	-
Supported image formats (Windows):	-
Supported video formats (Windows):	-
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
Imaging standards:	-

HOUSING

Housing material:	Composite/ plastic housing
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Magnification lock:	Yes
Dimensions:	10.5cm (L) x 3.2cm (D)
Weight:	95g
Cable length:	1.8m

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	19.9	15.0	7.4
30	24.1	13.2	10.0	3.8
40	11.0	9.9	7.5	-
50	3.8	7.9	6.0	1.8
60	-0.6	6.6	5.0	-
200	-0.4	2.0	1.5	0.42
210	0.6	1.9	1.4	-
220	1.7	1.8	1.4	-
230	2.8	1.7	1.3	-
Listed values may differ slightly				Unit = mm

AM4112PTL (END OF LIFE)



Dino-Lite television model with improved color rendering and long working distance. Possibility to turn the LED's on and off by using the sensor on the microscope.



DIRECT TV PAL
RCA CONNECTION



HIGH SPEED



CONTINUOUS
~10x-90x



MAGNIFICATION
LOCK



RESOLUTION
628 x 586



8 WHITE LED's
SWITCHABLE



LONG WORKING
DISTANCE

4-15 cm

This model is connected to the television (PAL) instead of USB. This can be a major advantage in situations where real time images are vital, such as working on PCB's or other miniature objects. It can also be directly connected to a beamer or digital blackboard without using a PC.

» Also available: AM4112PZTL with polarizer. All these models are also available in a robust metal housing

ADDITIONAL INFO

DETAILS

Dino-Lite range:	Dino-Lite High Speed
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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:	10-90x
Macro zoom:	No
Working distance:	Long
Lens type:	Glass with anti-reflection coating

SENSOR

Sensor type:	CMOS
Resolution:	628x586 pixels
Maximum frame rate:	30 fps at 27 MHz

COMPATIBILITY

Interface:	TV (RCA) PAL
Operating system:	-
Included software:	-
Supported image formats (Windows):	-
Supported video formats (Windows):	-
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
Imaging standards:	-

HOUSING

Housing material:	Composite/ plastic housing
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Magnification lock:	Yes
Dimensions:	10.5cm (L) x 3.2cm (D)
Weight:	95g
Cable length:	1.8m

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	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

AMK4112T-D15 (END OF LIFE)



For mobile applications the AMK4112T-D15 is a great combination of a Dino-Lite digital microscope with a portable digital recorder (D15). The recorder has a 5 inch LCD panel, and pictures and video can be recorded on an included 4GB SD-Card.



DIRECT TV PAL
RCA CONNECTION



5 INCH
LCD SCREEN



ADJUSTABLE
~10-70x & 200x



8 WHITE LEDs
SWITCHABLE



STANDARD
WORKING
DISTANCE

ADDITIONAL INFO

DETAILS

Dino-Lite range:	Dino-Lite Mobile
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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:	720x576 pixels
Maximum frame rate:	30 fps

COMPATIBILITY

Interface:	TV (RCA) PAL
Operating system:	-
Included software:	-
Supported image formats (Windows):	-
Supported video formats (Windows):	-
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
Imaging standards:	-

HOUSING

Housing material:	Composite/ plastic housing
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Magnification lock:	No
Dimensions:	Microscope: 10.5cm (L) x 3.2cm (D) Recorder: 131mm x 86mm x 18mm
Weight:	Microscope: 95g Recorder: 200g
Cable length:	1.8m

FEATURES

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

INFORMATION

Package contents:	Microscope, 5" Portable LCD monitor/recorder, 4 GB MicroSD card, USB Connection cable, AC 110V/240V Power adaptor, Rechargeable battery, Mounting bracket for recorder, CA1070 Watertight sturdy case, User manual
Warranty information:	2 years European warranty
Regulatory approval:	CE, FCC, ROHS
Price range:	€550,00 - €750,00

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	19.9	15.0	7.4
30	24.1	13.2	10.0	3.8
40	11.0	9.9	7.5	-
50	3.8	7.9	6.0	1.8
60	-0.6	6.6	5.0	-
200	-0.4	2.0	1.5	0.42
210	0.6	1.9	1.4	-
220	1.7	1.8	1.4	-
230	2.8	1.7	1.3	-
Listed values may differ slightly				Unit = mm

AMK4112TL-D15 (END OF LIFE)



For mobile applications the AMK4112TL-D15 is a great combination of a Dino-Lite digital microscope with long working distance, and a portable digital recorder (D15). The long working distance of up to 15 cms makes it possible to work under the microscopes (precision assembly/soldering etc.) The recorder has a 5 inch LCD panel, and pictures and video can be recorded on an included 4GB SD-Card.



DIRECT TV PAL
RCA CONNECTION



5 INCH
LCD SCREEN



CONTINUOUS
~10x-90x



8 WHITE LEDs
SWITCHABLE



4-15 cm

LONG WORKING
DISTANCE

ADDITIONAL INFO

DETAILS

Dino-Lite range:	Dino-Lite Mobile
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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:	10-90x
Macro zoom:	No
Working distance:	Long
Lens type:	Glass with anti-reflection coating

SENSOR

Sensor type:	CMOS
Resolution:	720x576 pixels
Maximum frame rate:	30 fps

COMPATIBILITY

Interface:	TV (RCA) PAL
Operating system:	-
Included software:	-
Supported image formats (Windows):	-
Supported video formats (Windows):	-
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
Imaging standards:	-

HOUSING

Housing material:	Composite/ plastic housing
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Magnification lock:	No
Dimensions:	Microscope: 10.5cm (L) x 3.2cm (D) Recorder: 131mm x 86mm x 18mm
Weight:	Microscope: 95g Recorder: 200g
Cable length:	1.8m

FEATURES

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

INFORMATION

Package contents:	Microscope, 5" Portable LCD monitor/recorder, 4 GB MicroSD card, USB Connection cable, AC 110V/240V Power adaptor, Rechargeable battery, Mounting bracket for recorder, CA1070 Watertight sturdy case, User manual
Warranty information:	2 years European warranty
Regulatory approval:	CE, FCC, ROHS
Price range:	€550,00 - €750,00

Working distance/ field of view/ depth of field:

MAGNIFICATION RATE	WORKING DISTANCE	FIELD OF VIEW(X)	FIELD OF VIEW(Y)	DEPTH OF FIELD
20	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

AMK4112ZT-D15 (END OF LIFE)



For mobile applications the AMK4112ZT-D15 is a great combination of a Dino-Lite digital microscope with polarization filter, and a portable digital recorder (D15). The recorder has a 5 inch LCD panel, and pictures and video can be recorded on an included 4GB SD-Card.



DIRECT TV PAL
RCA CONNECTION



5 INCH
LCD SCREEN



ADJUSTABLE
~10-70x & 200x



8 WHITE LEDs
SWITCHABLE



POLARIZER
ANTI-REFLECTION



STANDARD
WORKING
DISTANCE

ADDITIONAL INFO

DETAILS

Dino-Lite range:	Dino-Lite Mobile
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LIGHTING

Light/ LED type:	White
Number of LEDs:	8
LED on/off switchable:	Yes
Infrared filter:	IR cut-filter >650 nm
Diffuser available:	MSAA111A2 (optional accessory)
Emission filter:	No
Polarizer:	Yes, linear

OPTICS

Magnification:	10-70x, 200x
Macro zoom:	No
Working distance:	Standard
Lens type:	Glass with anti-reflection coating

SENSOR

Sensor type:	CMOS
Resolution:	720x576 pixels
Maximum frame rate:	30 fps

COMPATIBILITY

Interface:	TV (RCA) PAL
Operating system:	-
Included software:	-
Supported image formats (Windows):	-
Supported video formats (Windows):	-
Supported image formats (MacOS):	-
Supported video formats (MacOS):	-
Imaging standards:	-

HOUSING

Housing material:	Composite/ plastic housing
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Magnification lock:	No
Dimensions:	Microscope: 10.5cm (L) x 3.2cm (D) Recorder: 131mm x 86mm x 18mm
Weight:	Microscope: 95g Recorder: 200g
Cable length:	1.8m

FEATURES

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

INFORMATION

Package contents:	Microscope, 5" Portable LCD monitor/recorder, 4 GB MicroSD card, USB Connection cable, AC 110V/240V Power adaptor, Rechargeable battery, Mounting bracket for recorder, CA1070 Watertight sturdy case, User manual
Warranty information:	2 years European warranty
Regulatory approval:	CE, FCC, ROHS
Price range:	€550,00 - €750,00

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	19.9	15.0	7.4
30	24.1	13.2	10.0	3.8
40	11.0	9.9	7.5	-
50	3.8	7.9	6.0	1.8
60	-0.6	6.6	5.0	-
200	-0.4	2.0	1.5	0.42
210	0.6	1.9	1.4	-
220	1.7	1.8	1.4	-
230	2.8	1.7	1.3	-
Listed values may differ slightly				Unit = mm

Dino-Lite Premier Series

AD4112NTL



TV RCA, Special Nozzle, MicroTouch & Long WD

The AD4112NTL Dino-Lite handheld microscope is a composite (AV/Video RCA output) model with the interchangeable nozzle feature and longer working distance. This model includes both a standard open faced nozzle as well as a sealed transparent cap nozzle designed to protect the lens and built in LED lights from dust, debris and moisture common to certain work environments. The longer working distance allows for more space between the end of the AD4112NTL and the object in view. This model connects directly to a television via the RCA/Component cables and has a magnification range of 10x – 90x

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
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Working Distance	151	101	77.2	64.1	56.2	51.3	48.3	46.6
Field of View	19.6 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	4.9 x 3.9	4.3 x 3.5
Depth of Field								

** Units shown in millimeter*

Dino-Lite Edge Series

AM5212MNZ



RCA 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 AM5212MNZ Edge Series features a rugged aluminum alloy metal housing, TV Component output interface combined with revamped optics and 960H sensor technology, it is the latest upgrade to existing TV models such as the AM4112 series. The 960H sensor has a resolution of 960 x 480. This model has a 20x – 220x magnification range and a built on polarizer to help suppress unwanted glare or reflections. No computer or software required for this model that connects directly to a monitor or TV via Video Component connection.

Quick Start (.jpg)

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	50	100	150	200
Working Distance	40.5	11	5	7	-0.6
Field of View	18 x 9	8.5 x 4.25	4.5 x 2.25	3 x 1.5	2.2 x 1.1
Depth of Field	2.5	-	-	-	0.1

★ Units shown in millimeter

Dino-Lite Edge Series

AM5212MNZL



RCA 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 AM5212MNZL Edge Series features a rugged aluminum alloy metal housing, longer working distance, TV Component output interface combined with revamped optics and 960H sensor technology, it is the latest upgrade to existing TV models such as the AM4112 series. The 960H sensor has a resolution of 960 x 480. This model has a 10x – 140x magnification range and a built on polarizer to help suppress unwanted glare or reflections. No computer or software required for this model that connects directly to a monitor or TV via Video Component connection.

• Quick Start (.jpg)

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	50	100	150
Working Distance	260	159	48.5	31	32
Field of View	68 x 34	34 x 17	11 x 5.5	5 x 2.5	3.1 x 1.55
Depth of Field	12	4.5	1.2	0.28	0.09

★ Units shown in millimeter

Dino-Lite Edge Series

AM5212NZZ



RCA 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 AM5212NZZ Edge Series features a TV Component output interface combined with revamped optics and 960H sensor technology, it is the latest upgrade to existing TV models such as the AM4112 series. The 960H sensor has a resolution of 960 x 480. This model has a 20x – 220x magnification range and a built on polarizer to help suppress unwanted glare or reflections. The MicroTouch button on this model is configured to toggle the LEDs on/off. No computer or software required for this model that connects directly to a monitor or TV via Video Component connection.

• Quick Start (.jpg)

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	50	100	150	200
Working Distance	40.5	11	5	7	-0.6
Field of View	18 x 9	8.5 x 4.25	4.5 x 2.25	3 x 1.5	2.2 x 1.1
Depth of Field	2.5	-	-	-	0.1

★ Units shown in millimeter

Dino-Lite Premier Series

AM4112NT



RCA & Microtouch

The AM4112NT Dino-Lite handheld microscope is a composite (AV/Video RCA output) model that connects directly to a television via the RCA/Component cables. Viewing objects in motion is where this model will excel with real time imaging, making inspection more efficient than before. This model uses the latest housing which incorporates: improved magnification dial movement for smooth and easy adjustment and focusing with the Dino-Lite, and a scroll lock feature for assuring desired set magnification/focus.

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	19.9 x 15	13.2 x 10	9.9 x 7.5	7.9 x 6	6.6 x 5	2 x 1.5	1.9 x 1.4	1.8 x 1.4	1.7 x 1.3
Depth of Field									

★ Units shown in millimeter

Dino-Lite Premier Series

AD4112NT



TV RCA, Special Nozzle & MicroTouch

The AD4112NT Dino-Lite handheld microscope is a composite (AV/Video RCA output) model with an interchangeable nozzle feature. This microscope comes with both a standard open faced nozzle as well as a sealed transparent cap nozzle designed to protect the lens and built in LED lights from dust, debris and moisture common to certain work environments. The removable nozzle feature also provides the user the option of increasing working distance when using the digital microscope without any nozzle installed. This model connects directly to a television via the RCA/Component cables.

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
---------------	----	----	----	----	----	-----	-----	-----	-----

Working Distance	51.7	24.1	11	3.8	-0.6	-0.4	0.6	1.7	2.8
Field of View	19.9 x 15	13.2 x 10	9.9 x 7.5	7.9 x 6	6.6 x 5	2 x 1.5	1.9 x 1.4	1.8 x 1.4	1.7 x 1.3
Depth of Field									

★ Units shown in millimeter

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