

## Dino-Lite Series

Portable, handheld Dino-Lite Digital Microscope / Camera



Model: AM413"L" series  
(AM413TL and AM413ML (Metal Aluminum Alloy Shell w/o Microtouch)  
Enhanced magnification vs. working distance (WD)

- Handheld or mounted working distance (WD) Digital Microscope
- 1.3M / Resolution 1280x1024
- 20X~92X Magnification range (dependant on WD)
- Up to 135X magnification with digital "zoom in"
- USB 2.0 Output
- LED on/off controlled by software
- Measurement with calibration features (not available on Mac OS)

Description			
Product Number	AM413TL AM413ML - (Aluminum Alloy Shell)	Magnification	10~20X, 20X~92X (135X digital zoom VGA Mode only)
Warranty Period	1 Year	Pixels	1.3M
Condition	New	Resolution	1280x1024
Packaging	Retail Box	Data Output	USB 2.0
Tech Support	Dealer or BigC.com	Sensor	1/3" Color CMOS
Regulatory Approval	CE, FCC, ROHS	Country of Origin	Taiwan
Unit Weight	0.2 lb / 90gm	Unit Weight w/package	0.62 lbs
Unit Dimension	4" (H) x 1.26" (D)	Unit Box Dimensions	6.5"x6.5"x 2.5"

## Product Applications

The AM413TL and AM413ML (metal housing) are 1.3MP high resolution digital microscope cameras designed to provide enhanced magnification at greater working distances (WD). Our premium AM413 series of scopes come with the Metrology (measurement) and calibration features and built in 8 LED illuminations with on/off feature. The higher magnification at greater working distances makes the AM413”L” series ideal for detailed inspection of and interaction with “target” objects while the scope is mounted in a static or adjustable work stand, industrial equipment, etc.

AM413T has "Microtouch" (not available on AM413ML) shutter trigger allowing for convenient image capture capability while in hand-held mode OR rigid mount mode trigger feature is best when use in hand held mode.

The AM413”L” is an affordable feature loaded magnification device designed for dedicated workstation, exam, detailed repair, assembly and quality control (i.e. electronics, mechanical, etc) and quality assurance, inspection applications. Included with each Dino-Lite digital microscope is a copy of the "DinoCapture" software, enabling you to "capture" either a photograph, video or time-lapsed video and perform measurement and other critical tasks.

## Features/Specifications

### General Features:

- Resolution: 1280x1024 pixels
- Interface: USB 2.0
- Magnification: 10x ~20X, 20X~92X
- Effective magnification rate can reach 135x (VGA Mode only) with digital "zoom in"
- Measurement with calibration features (not available on Mac OS)

### Technical Specifications:

- Resolution: 1280x1024 pixels
- Interface: USB 2.0
- Magnification: 10x ~20X, 20X~92X
- Effective magnification rate can reach 135 x with digital "zoom in"
- Sensor: 1/4” Color CMOS
- Video frame Rate: up to 30 frame-per-second
- Illumination: built-in 8 white LED’s
- LED on/off controlled by software
- Save File format: BMP, JPG, AVI
- Compatible Windows 2000/XP, Vista and most MAC OS ([please verify MAC OS](#))
- Measurement with calibration features (not available on Mac OS)

### Microscope Dimensions and Weight:

- Body length: 4 inches / 10.2 cm
- Body Diameter: 1.26 inches / 3.2cm max.
- Cable length: 6 feet / 180 cm

## Mechanical Layout:

- Body with USB cable: 95g +/- 10g
- Total package weight: 280g +/- 20g (not including manual)
- Magnification: 10x~ , 20X~92X

## Regulatory Approvals:

- CE, FCC, ROHS

## Package includes:

- DinoLite digital microscope
- Application Software CD
- Cradle Stand
- Deluxe storage bag

## Options:

- Table top stand MS35B, MS16C
- Articulating desktop stand MS22B, MS52B, MS72B
- USB 6 feet Extension cable

## Additional Information:

-----AM413 "L" Series (Model AM413TL, AM413ML) Magnification vs. Working Distance table-----

(92X) Magnification @ 4.7 cm /1.9" from object	- FOV= 0.15" (L) x 0.11" (W) / 3.8mm x 2.85mm
(79X) Magnification @ 5.0 cm /2.0" from object	- FOV= 0.18" (L) x 0.13" (W) / 4.5mm x 3.3mm
(52X) Magnification @ 6.3 cm /2.5" from object	- FOV= 0.27" (L) x 0.20" (W) / 6.8mm x 5.1mm
(27X) Magnification @ 11.5 cm /4.5" from object	- FOV= 0.52" (L) x 0.38" (W) / 13mm x 9mm
(20X) Magnification @ 14.4 cm /5.7" from object	- FOV= 0.7" (L) / 0.4" (W) / 18mm x 10 mm

## Product Requirements:

- Intel Pentium 4 1.5G MHz processor or faster
- Windows 2000/XP, Vista
- 256 MB RAM
- CD-ROM drive
- 16-bit color display monitor or higher
- Available USB 2.0 port