Dino-Lite Digital Microscope

AM3113T

The Dino-Lite Premier AM3113T, which is upgraded from AM3013T for finer magnification adjustment and improved durability, can be ideal but not limited to industrial applications if both the image quality and budget are important factors. Inheriting from AM3013T's clear image, fast frame rate, software capability, and attractive cost-to-performance ratio, the AM3113T can exceed the AM3013T on numerous applications.

Overview

Faster reaction times
The approximate 30 FPS frame rate of AM3113T gives user the least delay to an object's movement, making it ideal for applications needing to perform tasks under the microscope, e.g. repairing, assembly etc.

Useful range of magnification
The magnification of Dino-Lite, varied with its focus, can be adjusted easily with its knob. It has two ranges of magnifications: lower range from 20x to 50x, and higher range exceeding 200x. It provides users the flexibility to "zoom in" the object optically from about 50x to 200x when the object is at the vicinity of front cover, or to work at lower magnification range with distance from the object.
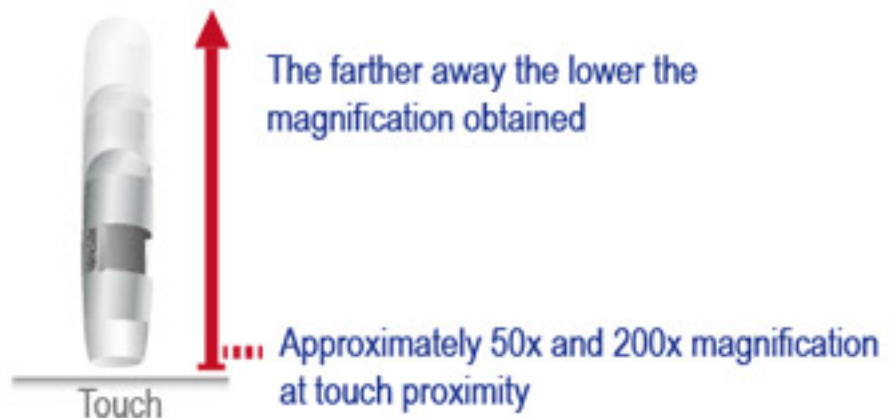
Releasing the digital power – DinoCapture & DinoXcope
The bundled software, DinoCapture 2.0 for Window or DinoXcope for Mac, bring a lot more possibilities from being digital. Capturing picture or video are within a click; making annotation and drawing cannot be easier; sharing picture/video or making report are no longer a frustrating process. Moreover, the measurement capability, either on picture or live video, extends its application far more than a traditional microscope can do.

Information about working distance and field of view

M	WD	FOV (x)	FOV (y)	DOF
20	51.7	21	15.7	8.02
30	24.1	14	10.5	
40	111	0.5	7.9	
50	3.8	8.4	6.3	1.95
60	-0.67	5.2		
200	-0.4	2.1	1.6	1.46
210	0.6	2	1.5	
220	1.7	1.9	1.4	
230	2.8	1.8	1.4	

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

The farther away the lower the magnification obtained

Approximately 50x and 200x magnification at touch proximity

Touch

Model : AM3113T Dino-Lite Premier
Interface : USB 2.0
Product Resolution : 640x480 pixels (VGA)
Magnification Rate : 20x~50x, 200x
Sensor : Color CMOS
Frame Rate : Up to 30fps
_Save Formats :
+ Image:
DinoCapture2.0: BMP, GIF, PNG, MNG, TIF, TGA, PCX, WBMP, JP2, JPC, JPG, PGX, RAS, PNM
DinoXcope: PNG, JPEG
+ Movie:
DinoCapture2.0: WMV, FLV, SWF
DinoXcope: MOV
Microtouch : Touch sensitive trigger on the microscope for taking pictures
Lighting : 8 white LED lights switched on/off by software
Measurement Function : Yes
Calibration Function : Yes
Operating System Supported : Windows XP, Vista, 7, 8, 10; Mac OS 10.4 or later
Unit Weight : 100g
Unit Dimension : 10cm (H) x 3.2cm (D)

Gallery

Inspection of a small part

Damaged gold wire on an image sensor