



## AM4515ZT

The Automatic Magnification Reading (AMR) capability that uniquely comes with Dino-Lite Edge AM4515ZT with polarizer, not only increases the accuracy of the magnification reading, but also releases the difficulty of reading the magnification or increases the efficiency of doing measurement for many applications or users. When opening the DinoCapture 2.0 software with an AM4515ZT series connected, the user will not be bothered to enter the magnification when doing measurements either on live video or from a picture. Same as other Dino-Lite Edge products, the AM4515ZT has the best overall image quality from a Dino-Lite with 1.3 Megapixels.

It also has better adaptability to different applications with the detachable and exchangeable front cap design.

### Overview



#### High optical resolution

Be amazed! The Dino-Lite Edge enters a new era of digital microscope by having the highest optical quality ever, through the whole range of magnification, among the Dino-Lite product series.



#### 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.



#### Automatic Magnification Reading (AMR)

Working with DinoCapture2.0, the AM4515ZT can detect and display the magnification, and store it with the captured picture automatically, making it especially useful for applications when reading the magnification is unfeasible or difficult. The AMR also brings more accuracy by eliminating the ambiguity of visually reading the magnification, while keeping the possibility to be further calibrated by the existing calibration function in DinoCapture 2.0.



#### Polarizer

To many applications, it is inevitable to have reflection on the surface resulting from the built-in illumination. The freely adjustable polarizer helps to reveal more detail or to enhance the contrast on the surface by reducing or eliminating the reflections. For applications such as optical mineralogy requiring transmitted polarizing illumination, the Dino-Lite back-light pad (BL-ZW1) is optional to be used with all Dino-Lite polarizer models.



#### More viewing options

The new detachable front cap design used in the Dino-Lite Edge series aims to satisfy most of the needs for various applications. Extra working distance, which is often desired when working under higher magnification range, can be easily obtained by removing the cap. Different caps - such as diffuser cap, side light cap, close cap, and more - can be selected for best viewing the object or for better suited to the application.

## Interchangeable Front Caps



### N3C-C / Close Cap

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



### N3C-D / Diffuser Cap

This cap diffuses the LED light.



### N3C-D2 / Opal Diffuser Cap

This cap diffuses the LED light.



### N3C-E / Extended Open Cap

Dino-Lite Edge (stand type) will focus at approximately 200x when the cap touches surface.



### N3C-L / Long Cap

This cap is useful to adjust the working focus of Dino-Lite Edge at lower magnification.



### N3C-O / Open Cap

This is the standard cap for normal usage.



### N3C-S / Sidelight Cap

This cap creates images with more depth and texture.

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

#### Specification

Model : AM4515ZT Dino-Lite Edge

Interface : USB 2.0

Product Resolution : 1.3M pixels (SXGA)

Magnification Rate : 20x~220x

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

+Movie:

DinoCapture2.0: WMV, FLV, SWF

Microtouch : Touch sensitive trigger on the microscope for taking pictures

Lighting : 8 white LED lights switched on/off by software

Polarizer : Yes

Measurement Function : Yes

Calibration Function : Yes

Operating System Supported : Windows 10, 8, 7, Vista, XP; Mac OS 10.9 or later

Unit Weight : 100g

Package Dimensions : 16cm (L) x 16cm (W) x 6cm (H)

