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Dino-Lite AF7115MZTW Edge Digital Microscope User Guide

Dino-Lite AF7115MZTW Edge Digital Microscope

Specifications

- **Brand**: Dino-Lite
- **Product Code**: AF7115MZTW – Edge
- **Lighting**: White LED
- **Number of LEDs**: 8
- **LED on/off switchable**: Yes
- **Diffuser available**: Yes
- **Emission filter**: No
- **Polarizer**: Yes, linear
- **Magnification (T Zone)**: 15X~50X
- **Magnification (W Zone)**: 5X~30X
- **Working distance**: 15 mm (T Zone), 30 mm (W Zone)
- **Lens type**: Macro zoom
- **Sensor type**: CMOS
- **Sensor resolution**: 5 Megapixel (2592×1944)
- **Maximum frame rate**: 30 fps
- **Compatibility**: Windows 7, 8, 10 & 11, MacOS 10.14 and up
- **Interface**: USB 2.0
- **Included software**: DinoCapture 2.0 (Windows), DinoXcope (Mac OS)
- **Supported image formats (Windows)**: BMP, GIF, PNG, MNG, TIF, TGA, PCX, WBMP, JP2, JPC, JPG, PGX, RAS, PNM
- **Supported video formats (Windows)**: WMV, FLV, SWF
- **Supported image formats (MacOS)**: JPEG, PNG
- **Supported video formats (MacOS)**: MOV (max 1.3MP)
- **Imaging standards**: DirectShow, UVC
- **Wifi**: Wireless-ready, requires the WF-20 adapter (optional)

- **Housing material**: Metal housing
- **Magnification lock**: Yes
- **Dimensions**: 15 mm (H) x 34 mm (D)
- **Weight**: 97g
- **Cable length**: 1.8m
- **Features**: Flexible LED Control (FLC), Microtouch sensor, ESD safe
- **Special feature**: Measurement Calibration
- **Microscope package contents**: Microscope, carry pouch, software CD, calibration target, user manual, N3C-O- Open cap, N3C-C Closed cap, N3C-D- diffuser cap, N3C-E extension cap, N3C-L- Long cap, N3C-S- Side light cap
- **Warranty information**: 2 years European warranty
- **Regulatory approval**: CE, FCC, ROHS
- **Price range**: €900.00 – €1100.00

Product Usage Instructions

Setup and Installation

1. Unbox the Dino-Lite AF7115MZTW – Edge microscope and remove all packaging materials.
2. Connect the microscope to your computer using the provided USB cable.
3. Install the included software, DinoCapture 2.0 for Windows or DinoXcope for Mac OS, by following the on-screen instructions.
4. Once the software is installed, launch it and connect the microscope by selecting the appropriate device from the software's device list.
5. Ensure that the microscope is securely connected and recognized by the software.

Basic Operation
To use the Dino-Lite AF7115MZTW – Edge microscope, follow these steps

1. Place the object you want to examine under the microscope lens.
2. Adjust the focus by rotating the focus wheel located on the microscope body.
3. Use the zoom control to adjust the magnification level according to your needs.
4. Toggle the LED lights on or off using the LED on/off switch.
5. If necessary, attach the diffuser cap to diffuse the light for better illumination.
6. If reflections are causing issues, adjust the polarizer to reduce them.

Advanced Features
The Dino-Lite AF7115MZTW – Edge microscope offers several advanced features

- **Flexible LED Control (FLC):** Allows you to adjust the brightness of the LED lights for optimal illumination.
- **Measurement Calibration:** The microscope supports measurement calibration, enabling you to measure dimensions of objects directly on the captured images.
- **Microtouch Sensor:** The microscope is equipped with a Micro touch sensor that allows you to capture images with a single touch.

- **ESD Safe:** The microscope is designed to be electrostatic discharge (ESD) safe, ensuring protection against static electricity.

Frequently Asked Questions (FAQ)

- **Q: Can I use the Dino-Lite AF7115MZTW – Edge microscope with my Mac computer?**
  A: Yes, the microscope is compatible with Mac computers running MacOS 10.14 and up. You can use the DinoXcope software provided for Mac OS.
- **Q: What are the supported image and video formats for Windows?**
  A: The microscope supports various image formats, including BMP, GIF, PNG, MNG, TIF, TGA, PCX, WBMP, JP2, JPC, JPG, PGX, RAS, PNM. For video formats, it supports WMV, FLV, and SWF.
- **Q: Does the microscope have wireless capabilities?**
  A: Yes, the Dino-Lite AF7115MZTW – Edge is wireless-ready. However, to enable wireless functionality, you need to purchase and use the WF-20 adapter (optional).
- **Q: What is the warranty period for the microscope?**
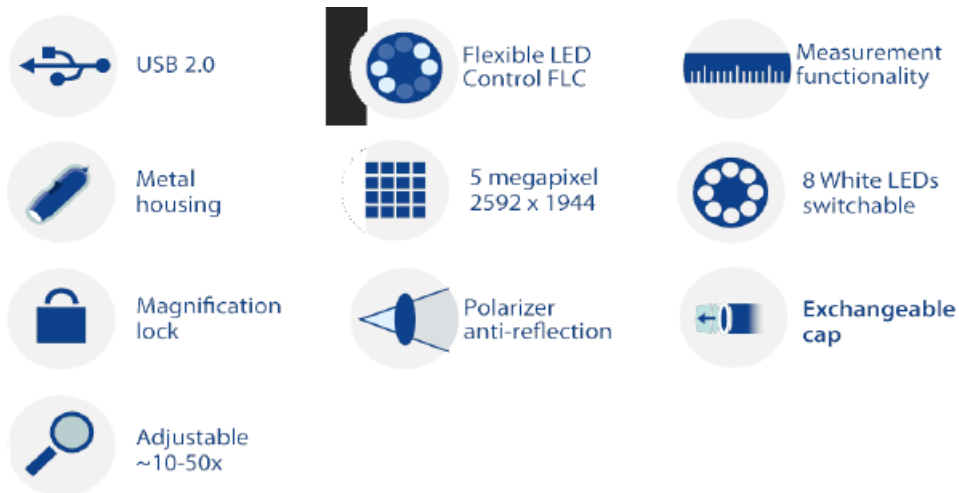 A: The microscope comes with a 2-year European warranty.

AF7115MZTW – Edge

- **Brand**: Dino-Lite
- **Product Code**: AF7115MZTW – Edge

Short Description

- High Optical Resolution
- 5.0 Megapixels
- Flexible LED Control (FLC)
- Adjustable Polarizer
- Macro zoom optics

Description
The 5MP Edge AM7115MZTW – Edge provides macro-level imaging with zoomin capabilities. This microscope includes a polarizer to reduce reflections and features FLC for adjustable illumination. AF7115MZTW is compatible with the optional WF-20 Wi-Fi streamer.

Feature Icons

- USB 2.0
- Flexible LED Control FLC
- Measurement functionality
- Metal housing
- 5 megapixel 2592 x 1944
- 8 White LEDs switchable
- Magnification lock
- Polarizer anti-reflection
- Exchangeable cap
- Adjustable ~10-50x

The main features of the AM7115MZTW – Edge are

1. 5 Megapixel sensor
2. Macro zoom optics
3. Adjustable polarizer
4. Robust Metal housing
5. Flexible LED Control (FLC)
6. High Optical Resolution

- Adaptable Interface
- And more…

Working distance/field of view/depth of field

MAGNIFICATI WORKING FIELD OF FIELD OF DEPTH OF
ON RATE   DISTANCE   VIEW(X) VIEW(Y)   FIELD
Listed values may differ slightly Without front   Unit = mm
                                    cap

T Zone

MAGNIFICATI ON RATE	WORKING DISTANCE*	FIELD OF VIEW(X)	IELD OF VIEW(Y)	DEPTH OF FIELD
50	23	8	6	4
40	43	10	7	6
30	43	13	10	11
20	128	20	15	27
15	183	26	20	48

MAGNIFICATI WORKING   FIELD OF FIELD OF DEPTH OF

ON RATE   DISTANCE*   VIEW(X)   VIEW(Y) FIELD

Listed values may differ slightly Without front Unit = mm

cap

W Zone

30	19		13	10	7	
20	33		20	15	7	
15	47		26	20	25	
10	76		40	30	57	
5 **Specification**	163		79	59	297	

Lighting	
Light/ LED type	White
Number of LEDs	8
LED on/off switchable	Yes
Diffuser available	Yes (N3C-D included)
Emission filter	No
Polarizer	Yes, linear
Optics	
Magnification	T 15X~50X, W 5X~30X
Macro zoom	No
Working distance	Standard

Lens type	Glass with anti-reflection coating
Sensor	
Sensor type	CMOS
Resolution	5 Megapixel (2592×1944)
Maximum frame rate	30 fps
Compatibility	
Interface	USB 2.0
Operating system	Windows 7, 8, 10 & 11, MacOS 10.14 and up
Included software	DinoCapture 2.0 (Windows), DinoXcope (Mac OS)

Supported image formats (Windows)	BMP, GIF, PNG, MNG, TIF, TGA, PCX, WBMP, JP2, JPC, JPG, PGX, RAS, PNM
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Housing material	Metal housing
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Dimensions	15 mm (H) x 34 mm (D)
Weight	97g
Cable length	1.8m
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Special feature	Flexible LED Control (FLC)
Measurement	Yes
Calibration	Yes
Micro touch sensor	Yes
ESD safe	Yes
Information	
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Documents / Resources

Dino-Lite AF7115MZTW Edge Digital Microscope [pdf] User Guide
AF7115MZTW Edge Digital Microscope, AF7115MZTW, Edge Digital Microscope, Digital Microscope, Microscope

References

- **TCPDF**
- **User Manual**