



# levenhuk M PLUS Series Microscope Digital Camera User Manual

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**levenhuk M PLUS Series Microscope Digital Camera**



## Product Information

### Microscope Digital Camera M PLUS SERIES

The Levenhuk eyepiece digital cameras are designed exclusively for microscopes. They can be installed on any type of optical microscopes, be it biological or metallurgical, mono or stereo microscope. The camera has a maximum resolution of 16.0 megapixels and is available in 5 models: M500 PLUS, M800 PLUS, M1000 PLUS, M1200 PLUS, and M1600 PLUS. The cameras have different sensor pixel sizes, exposure times, video frame rates, and dynamic ranges.

The camera's interface is USB 2.0 with a 480 b/s transfer rate. The camera supports image formats such as \*.jpg, \*.bmp, \*.png, \*.tif and video formats such as \*.wmv, \*.avi. The manufacturer reserves the right to make changes to the product range and specifications without prior notice.

## Product Usage Instructions

Never look at the sources of bright light or lasers through the camera or the microscope as it can cause permanent damage to your eyes.

1. Install the camera on the microscope eyepiece.
2. Connect the camera's USB cable to your PC.
3. Install the software included in the kit.
4. Turn on the microscope and adjust the focus.
5. Open the software and preview the image on your PC.
6. Use the software to edit the resulting image as required.

**Note:** The observed view may be transferred directly to your PC, and with the software included in the kit you can view and edit the resulting image.

Never look at the sources of bright light or lasers through the camera or the microscope: it will cause PERMANENT DAMAGE TO YOUR EYES!

Levenhuk eyepiece digital cameras have been designed exclusively for microscopes. They can be installed on any type of optical microscopes, be it biological or metallurgical, mono or stereo microscope. The observed view may be transferred directly to your PC, and with the software included in the kit

you can view and edit the resulting image.

## Features

- Levenhuk M PLUS Series includes cameras with resolutions ranging from 8 to 14 megapixels;
- The camera allows you to watch images on the screen in a real-time mode, and to capture photos and videos;
- The camera renders realistic colors with high level of detail;
- Levenhuk M PLUS Series cameras are compatible with microscopes of 23.2mm eyepiece tube diameter (the camera is installed in place of the eyepiece);
- The standard kit includes Levenhuk software necessary to view and edit your images (brightness, image size, etc.);
- The camera can be charged and connected to your PC with USB-cable.

## Package

Levenhuk digital camera, adapter 23.2 mm, 2 adapters for microscopes with different eyepiece tube diameters (23.2–30mm, 23.2–30.5mm), USB cable, installation CD (setup wizard, drivers, software), user manual and warranty.

System requirements

Mac OS 10.12, Linux Ubuntu 14.04, Windows XP/Vista/7/8/10/11 (32-bit or 64-bit), CPU IntelCore 2 or above; RAM 2GB, USB port 2.0, CD-ROM.

## Care and maintenance

- Never look at the sources of bright light or lasers through the camera or the microscope: it will cause PERMANENT DAMAGE TO YOUR EYES!
- Do not disassemble the camera on your own.
- Keep the camera away from moisture; do not use it in rainy weather.
- Keep the camera away from shock or excessive pressure.
- Do not overtighten the locking screws.
- Keep the camera away from hazardous environment, home and car heaters, incandescent lamps or open fire.
- When cleaning the lenses, first blow any dust or debris off the surface or wipe them off with a soft brush. Then wipe the lens with a soft cleaning cloth slightly damp with spirits or ether.
- Seek medical advice immediately if a small part or a battery is swallowed.

## SPECIFICATION

Max. resolution (for still images), pixels	2592x1944	3264x2448	3584x2748	3840x3040	4632x3488
Megapixels	5,1	8	10	12.0	16.0
Sensor	1/2.5" CMOS	1/2.5" CMOS	1/2.3" CMOS	1/2.3" CMOS	1/2.3" CMOS
Pixel size, µm	2.2x2.2	1.67x1.67	1.67x1.67	1.55x1.55	1.335x1.335
Exposure time, ms	0.2–2000	0.4–2000	0.4–2000	0.4–2000	0.2–2000
Video recording	+				
Frame rate, fps	7@2592x1944 27.7@1296x972 100.5@648x486	1.9@3264x2448 8@1600x1200 27@800x600	1.9@3584x2748 8@1792x1374 27@896x684	3@3840x3040 11@1920x1516 47@960x758	2@4632x3488 8@2320x1740 11@1536x1160
Active range, dB	73	65.2	73	71.2	67.3
Image format	*.jpg, *.bmp, *.png, *.tif				
Video format	*.wmv, *.avi				
Exposure	ERS				
Interface	USB 2.0, 480 Mb/s				
Casing	metal/метал/kovový/Metall				
Operating temperature range, °C (°F)	–10... 50 (14... 122)				

**Warranty:** lifetime. For further details, please visit our web site: [www.levenhuk.com/warranty](http://www.levenhuk.com/warranty)

### [www.levenhuk.com](http://www.levenhuk.com)

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## Documents / Resources



[Levenhuk M PLUS Series Microscope Digital Camera \[pdf\] User Manual](#)  
M500 PLUS, M800 PLUS, M1000 PLUS, M1200 PLUS, M1600 PLUS, M PLUS Series  
Microscope Digital Camera, Microscope Digital Camera, Digital Camera, Camera

## References

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