

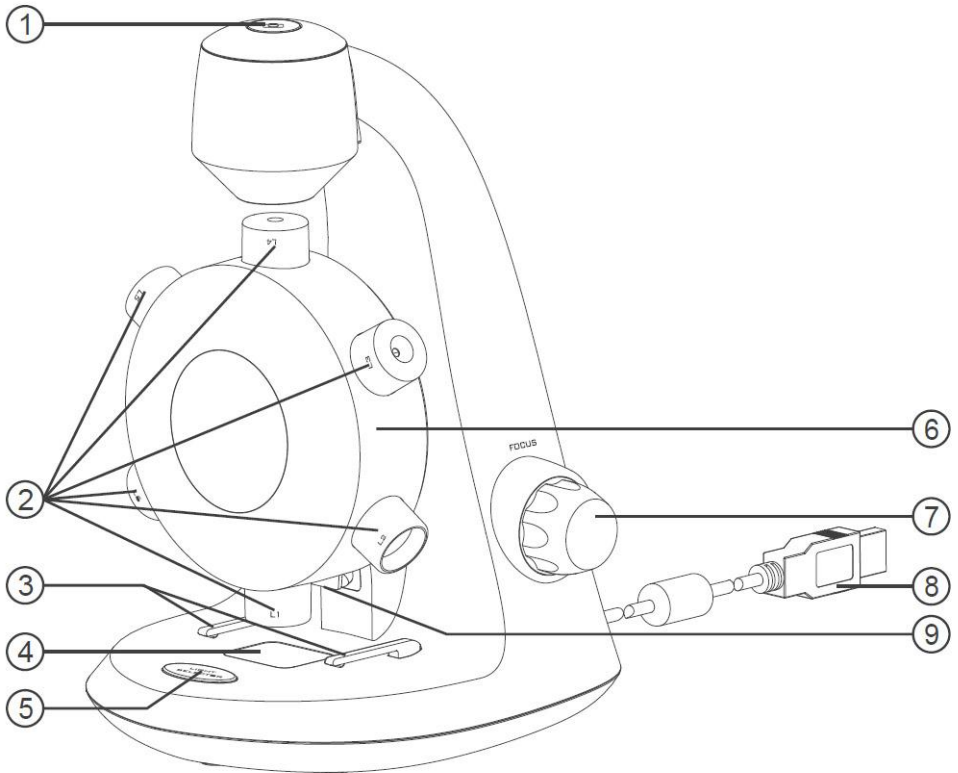
velleman®

CAMCOLMS3

2 MP DIGITAL MICROSCOPE
2 MP DIGITALE MICROSCOOP HDMI



CE



USER MANUAL

1. Introduction

To all residents of the European Union

Important environmental information about this product



This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for choosing Velleman! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

2. Safety Instructions



Keep this device away from children and unauthorized users.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children shall be supervised to ensure that they do not play with the appliance.



The white LEDs, which illuminate the microscope target field, are very bright. Do not stare directly into these LEDs as it may damage your eyes.

3. General Guidelines

Refer to the **Velleman® Service and Quality Warranty** on the last pages of this manual.



Keep this device away from dust and extreme temperatures.



Protect this device from shocks and abuse. Avoid brute force when operating the device.

- Familiarise yourself with the functions of the device before actually using it.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorised way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Do not switch the device on immediately after it has been exposed to changes in temperature. Protect the device against damage by leaving it switched off until it has reached room temperature.
- Keep this manual for future reference.

4. Overview

Refer to the illustrations on page 2 of this manual.

1	snapshot button
2	objectives
3	slide clips
4	specimen stage
5	light selector switch

6	objectives turret
7	focusing knob
8	USB cable
9	LED

5. Getting Started

5.1 Software Installation

Windows®

1. Insert the included CD-ROM in the CD-ROM drive of your computer.
2. Double-click the **xplovview v3.2.xx.exe** icon located on the CD-ROM.
3. Follow the setup wizard and install the application software.

Mac® OS

1. Insert the included CD-ROM in the CD-ROM drive of your computer.
2. Double-click the **xplovview v3.2.xx.dmg** icon located on the CD-ROM.
3. Drag the **xplovview** icon into the Applications folder.

5.2 Connecting the Microscope

Connect the microscope to a powered USB port.

5.3 Starting the Software

Windows®

Double-click on the **xplovview** icon on your desktop to start the software.

Mac® OS

Double-click on the **xplovview** icon in the Applications folder to start the software.



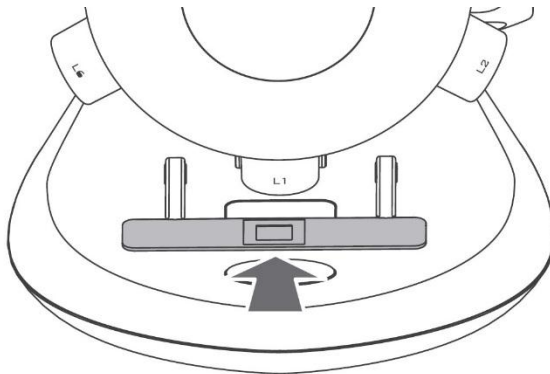
NOTE

When the device is connected for the first time, a driver will automatically be installed. This process could take up to a few minutes.
Each time when the xplovview software is started, the device should start automatically. Otherwise, the device can be selected from the device setup section of the system settings menu.



5.4 Installing a Slide

Place a prepared specimen slide on the specimen stage and slide it into the clips, such that the clips hold the slide securely.

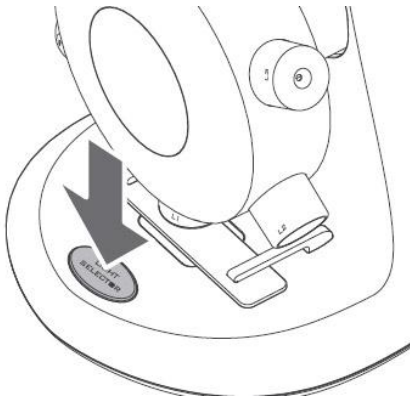


6. Basic Operation

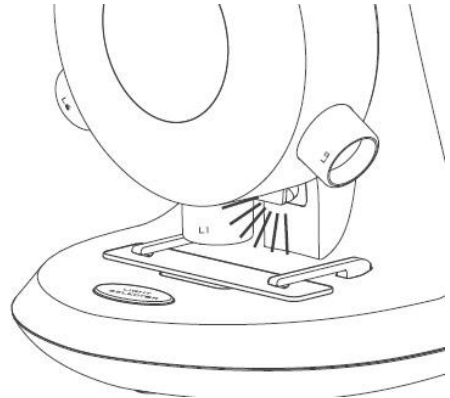
6.1 Selecting a Light Source

This digital microscope features two light sources: one located above the stage for incident illumination and one underneath the stage providing transmitted illumination.

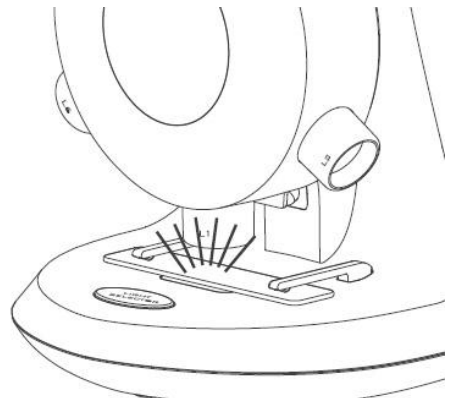
After connection, the illumination will automatically switch on. Press the selector switch to toggle between the two modes.



Press once to toggle between the light modes.



Incident illumination.

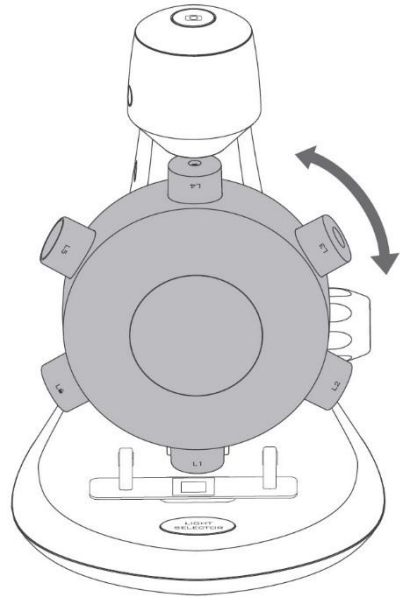


Transmitted illumination.

6.2 Selecting a Magnification Rate

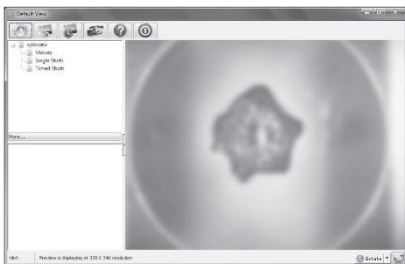
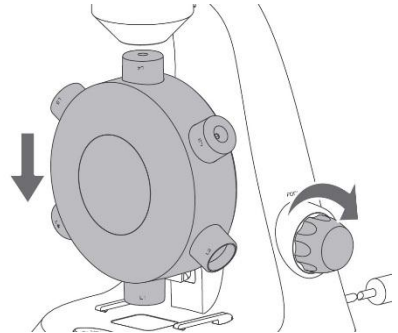
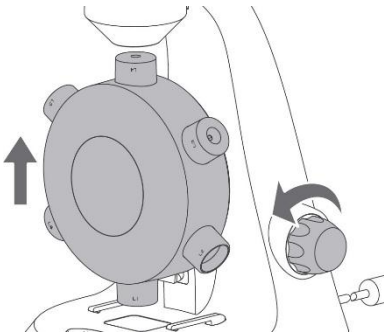
The objective turret can be rotated both ways – clockwise or anticlockwise.

Start with the least powerful objective L1. Rotate the objective turret such that the objective is directly on top of the specimen. Rotate the turret to select a more powerful objective if needed.



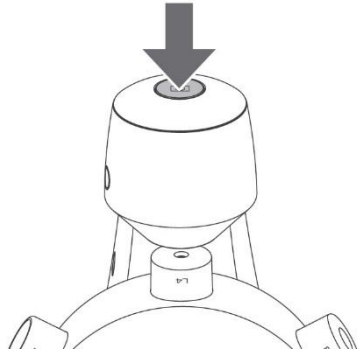
6.3 Focusing

Rotate the focusing knob clockwise or anticlockwise until the image is sharp. Make sure the objective is clear from obstacles and does not hit the specimen while lowering the turret.



6.4 Taking a Snapshot

Press the snapshot button to take a snapshot.



7. Using the Software

7.1 Menu Buttons



System Settings Menu.



Capture on-screen image.



Start/stop **Timed Shot**. Images will be captured at a regular interval.



Start/stop **Video Recording**.



Information of the application software.



Shut down the software.

7.2 Full-Screen Viewing

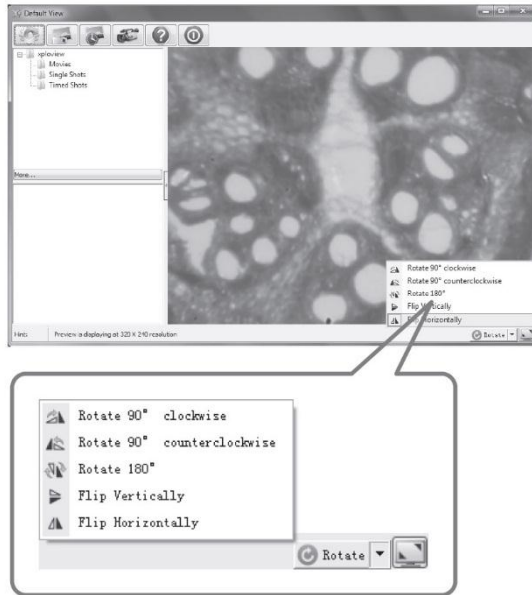
To activate the full-screen mode, click the full-screen button on the bottom right of the window.

To exit the full-screen mode, either double-click on the screen or press the **Esc** button on the keyboard.



7.3 Image Rotation/Flip

Click the rotate button to rotate or flip the image.



7.4 System Settings Menu

The first time the xpliview software is started, the default settings will be loaded. You may change these settings manually in the system settings menu.

Device Setup

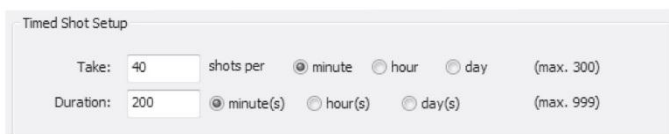
If the image captured was not displayed by default, you can change this by selecting it from the **Device** drop-down menu.

The resolution of the image you capture can be changed from the **Resolution** drop-down menu.



Timed Shot Setup

Adjust the frequency and duration of automatic image capture.



Movie Setup

Modify the resolution of videos you record. You can also set a maximum file size for each video.



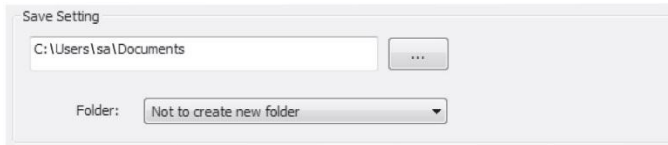
Movie Setup

Resolution: 640X480

Maximum file size: 100 MB (16MB - 4097MB)

Save Setting

Select the saving location for captured images or videos.



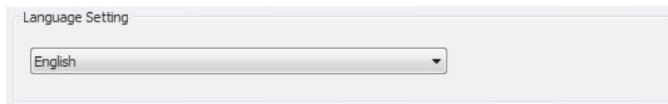
Save Setting

C:\Users\sa\Documents

Folder: Not to create new folder

Language Setting

Select the software language.



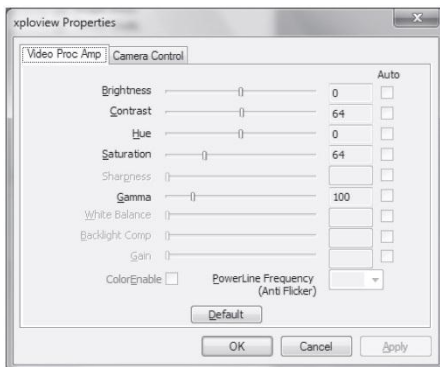
Language Setting

English

7.5 Advanced Settings

Click the **More** button on the right of the **System Settings Menu** to manually adjust all of the image settings. Note that the available settings might differ depending on your operating system.

Windows®



xploview Properties

Video Proc Amp | Camera Control

Brightness: 0

Contrast: 64

Hue: 0

Saturation: 64

Sharpness: 100

Gamma: 100

White Balance: 100

Backlight Comp: 100

Gain: 100

ColorEnable: ☐ PowerLine Frequency (Anti Flicker):

Default

OK Cancel Apply

Mac OS®



xploview

Hue: 0.5

Saturation: 0.5

Brightness: 0.5

Contrast: 0.5

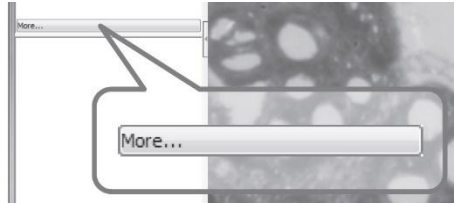
Sharpness: 0.5

Default

Cancel Ok

7.6 Saved Files

Locate your saved files by clicking the **More...** option.



7.7 Uninstalling the Xplovview Software

Windows®

Select the **Uninstall** option (**Start > All Programs > xplovview > Uninstall**).

Mac® OS

Drag the **xplovview** application icon from the **Applications** folder to the **Trash** folder.

8. Cleaning and Maintenance

Occasionally wipe with a damp cloth to keep it looking new. Do not use harsh chemicals, cleaning solvents or strong detergents.

9. Technical Specifications

image sensor	2 megapixel
input interface	USB 2.0
magnification rate	100x, 200x, 300x, 400x, 500x, 600x
white balance	automatic
iris aperture	AES
white LEDs	1 pc
resolution	
photos	1600 x 1200 pixels
video captures	640 x 480 pixels
power supply	5 VDC via USB
system requirements	
Windows® XP - Vista - 7 - 8 - 10	
Mac® OS 10.5.6 or higher	
dimensions	130 x 154 x 208 mm
weight	369 g

Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device. For more info concerning this product and the latest version of this manual, please visit our website www.velleman.eu. The information in this manual is subject to change without prior notice.

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