General Precautions and Maintenance

Treat your MiniVID as you would any high-quality electronic device. Handle it with care, and do not expose it to moisture or extreme temperatures.

Do not touch the chip inside the camera. If you see spots on the screen, there is likely dust on the chip. This can be cleaned by blowing canned air into the camera.

Please do not attempt to open camera case. There are no user serviceable parts inside.

USB Conflicts: When there are a number of devices installed at the same time, unexpected errors can arise. The cause can be insufficient USB bandwidth or too much combined current being drawn by USB devices. To test these conditions you should uninstall and unplug as many other USB devices as possible.

Image viewing problems: If you see only a black screen, ensure that the trinocular port is opened on the microscope. Point the camera towards a window to confirm that the camera is functioning – light should appear on the screen (though it will not focus when not installed on a microscope).

Computer does not recognize device: Make sure you have plugged into a USB 2.0 port. Always try to use the same port each time; otherwise the computer will see the camera as a new device when plugged into a new port. If this happens, just follow the wizard again and the camera will work on the new port as well.

Slow frame rate or frozen screen: Select smaller resolution settings. Depending on the age of the computer, the video driver may not support the maximum resolution and speed performance capable by the MiniVID camera.

Specifications

Model: MVC-U5MP-WiFi

Hardware Configuration:

Image Sensor	1/2" color CMOS chip – 5MP
Frame Rate	Fast frame rates ensure smooth motion for fast moving specimens or live teaching. When connecting to PC using USB cable, maximum frame rates are: - 640x480@40fps - 2592x1944@15fps When using WiFi, maximum frame rates are: - 640x840@30fps - 2592x1944@5fps
Image Capture Capabilities	Capture live-streaming video clips on any device Capture high-res images in BMP, JPG, PNG formats
System Requirement	iOS6 or higher Android 3.0 or higher Microsoft XP/7/8/10 (32 & 64 bit)
Software	Download the free Ucam Plus app Includes CD with software for PC
Mounting Requirements	Standard trinocular c-mount (threaded) or insert into eyetube with optional adapter

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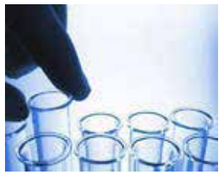
LW Scientific

MiniVID WiFi

Instruction Manual





Model Pictured

MiniVID WiFi Eyepiece Camera (MVC-U5MP-WiFi)

Not all features available on all models see back page for model specifications.



The MiniVID WiFi 5MP camera is an incredible new addition to our camera line. It can be mounted to nearly any brand or type of microscope with trinocular C-mount, or inserted into one eye-tube of a binocular head using the optional eyetube adapter. Connect to any iOS device (iPhone/iPad) or Android phone/tablet through the Ucam Plus app. Additionally, the MiniVID WiFi can be utilized with the included software for all PCs. The MiniVID WiFi has many different applications, but is best suited for teaching, training, and educating clients, and students.

Unpacking and Setup

The MiniVID WiFi comes delivered in a box with the following parts. If any parts are missing, please contact your distributor or LW Scientific.

1-MiniVID WiFi Camera Body: for use on C-mount trinocular
3-Camera Alignment Screws: Not necessary. Camera is pre-aligned
1-CD with MicroCam software: for use on PC – not MAC
1-USB Cable
1-USB Charging Block

Optional Accessory

Optical Eyetube Adapter:

For use with monocular or binocular microscopes (to mount into a standard 23mm eyetube in place of the eyepiece)

Part number: **MVP-ADA0-ETMC**





Optional Eyetube Optical Adapter

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Camera Features



LED Indicator Lights:

Battery Indicator:
- Green = Battery is fully charged
- Yellow = Battery is 50% charged
- Red = Camera should be charged immediately

WiFi Indicator
- A green light will flash when the camera is now sending out the WiFi signal.

Micro USB to USB Interface:

Charge your battery by plugging your USB cable into the micro USB port, then into the charging block or PC.





Quick Start Guide

1 Make sure your camera is fully charged by plugging the camera in with the USB Cable and USB charging block. The camera can be used in WiFi mode on battery power for 2+ hours, or you can leave the camera plugged into the charger for extended use. When the camera is connected to a PC with the USB cable, it will receive power from the computer and will remain fully charged.

2 Remove the cap from the bottom of the camera, and then carefully remove the plastic film coving the chip by pulling the red tab. (May need tweezers or needle nose pliers.) To keep the chip as clean as possible, be careful not to touch the camera chip, and do not leave it exposed.

3 C-mount Trinocular Installation: The MiniVID can be thread-mounted onto any trinocular microscope with a C-mount threading on top. Once the camera is mounted on the trinocular pipe of the microscope, check for "parfocality." The trinocular pipe should have an up/down height adjustment which allows the camera to be made "parfocal" with the view through the binocular tubes. Check your microscope manual for instructions for this adjustment.

If you do not have a trinocular C-mount, and you have purchased the optional eyetube adapter:
Remove caps from both ends of the eyetube adapter, and screw the adapter all the way onto c-mount connection of the camera. Remove an eyepiece from the microscope, and insert the MiniVID into the eyetube. (Optional 30mm or 30.5mm eyetube adapter may be needed for larger eyetubes.)

WiFi Use with Smartphone or Tablet



Go to the App Store or Google Play Store and download the UCam Plus app.



Flip switch on the camera to the WiFi setting. Within 10 seconds, the green WiFi indicator will begin flashing.



Go to 'Settings' in your phone or tablet and select **VideoWiFi-######**. *(Every camera will have a unique six digit identifying number.)*

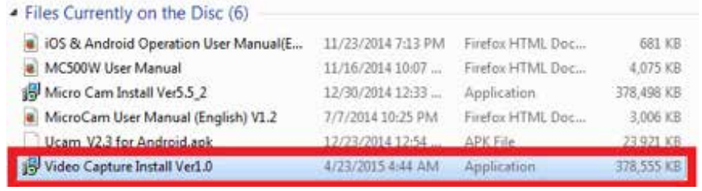
Access code needed for first time set-up: **12345678**



Click on the '**?**' to access the instruction page for using the Ucam software.

Connecting to PC with USB Cable

1 Insert the included CD into your disc tray (or download the software online at www.lwscientific.com/collections/mini-vid/products/minivid-wifi-camera). Once disc is accessed, open and install the file labeled "Video Capture Install Ver1.0." This is the software that controls the MiniVID WiFi on your personal computer.



2 Set the MiniVID WiFi to USB mode, and then, using the included USB cable, connect the product to your PC. The Camera's plug and play drivers will allow Windows to automatically install the product's drivers.

3 Once Windows has finished installing the camera, open the Video Capture software (by default, the installer will create a shortcut on your desktop entitled "Video Capture").

When the software is open, click on the blank drop down box at the top of the screen and select "Microscope" or "USB Video Device" from the list of options. Your camera is now ready to use.



4 For detailed operation instructions, open the CD and click on the User Manual or go to the Help section in the MicroCam software.

White Balance Instructions:

Your MiniVID WiFi camera is set to automatically white balance after a few seconds of running. Therefore, you should not have to manually adjust the white balance. However, if you find the camera's image is inconsistent with what you see through your eyepieces, even after the auto-adjustment, turn your Microscope's light to full brightness, and place a white sheet of paper beneath your 4x or 10x objectives for a few seconds. This action will reset the camera's white balance, ensuring that the auto-balance works properly and your camera provides the most accurate color rendering.