

Wireless Microscope

DE550 User Manual

Version: 1.0





THANKS FOR SELECTING A WIRELESS FIREFLY MICROSCOPE

To take full advantage of this product's advanced capabilities, and to properly and safely use this product, please read the manual carefully.

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Caution: Changes or modifications not expressly approved by Firefly Global will void the purchaser's authority to operate the equipment and its warranty.

TABLE OF CONTENTS

Version: 1.0

Table of Contents	3
Introduction	5
Warnings & cautions	6
Warning	
Caution	6
Check List	8
Nomenclature	10
Setting up the microscope with specula:	
Setting up the F.O.V extender and specula:	
Setting up the software application:	
Setting up the software application:	13
Connect to PC:	13
Power the Device On:	13
Charging Battery:	13
Channel Mapping:	14
Using the Firefly Microscope System:	14
Recommended holding position:	15
Brightness Adjustment:	15
Using the image capture control:	15
Using Focus:	16
Function as a laryngoscope	16
Standby and Remove device:	17
Launch the Software Application:	18
Viewing the Images:	18
Tool bars	18
Control tool bars:	19
Image tool bars:	19
Device Tool bars:	20
Maintenance and service	21
Cleaning recommendation	
Recycling the system components	
Accessories	
Service policy	
specifications	23
Limited Warranty	4

4	User Manual for Wireless Firefly Microscope DE550	Version: 1.0
	Troubleshooting	
	Wireless interference recommendations	28

Introduction

The Wireless Firefly Microscope System consists of a wireless digital Microscope, a compact USB receiver, software application and a charge cable. Only a computer equipped with a free USB port is needed to use the system.

Version: 1.0

The Wireless Firefly Microscope System is designed for effective operation under a variety of conditions and typical video parameters are set at the factory. The software allows users to adjust most parameters including Saturation, Hue, Brightness, Contrast and Sharpness for desired applications.

System Requirements

The Firefly Microscope System requires a user PC system running Windows XP Service Pack 2 or later operating system, a viewing screen, and a PC with an available USB 1.1 or 2.0 port.

Intended use

The Wireless Firefly Microscope System is intended to allow inspection of the external ear, ear canal, and tympanic membrane under magnification. A secondary use of may be for general illumination of the throat and/or nasal cavities or assessing flexibility of the tympanic membrane.

User Profile

The Wireless Firefly Microscope System is intended for applications such as:

- Science Education
- Medical examinations
- Veterinarian use
- Self health monitoring

WARNINGS & CAUTIONS

Please familiarize all operating personnel with the general safety information in this summary. Specific warnings and cautions are also found throughout this manual.

Version: 1.0

Warning



A warning statement in this manual identifies a condition or practice which if not corrected or discontinued immediately, could lead to injury, illness, or death.

- Do not use in the presence of flammable anesthetics.
- This product has no user serviceable/replaceable parts. Please refer all service to authorized service personnel.
- This instrument is not intended to be used in the eye.
- This product generates and records reference images from inputs obtained from the software application FireflyPro. These reference images are not intended for medical or other diagnostic purposes.

Caution



A caution statement in this manual identifies condition or practice, which if not corrected or discontinued immediately, could lead to equipment failure, equipment damage, or data loss.

- In order to obtain optimum performance and ensure patient safety, thoroughly read this manual.
- Do not use the Firefly Microscope if you notice any signs of damage to the components of the system. Contact customer service for immediate assistance.
- Do not attempt to disinfect the Firefly Microscope System using glutaraldehyde products, ethylene oxide gas, steam or any other liquid or gas disinfectant.
- The signal output (USB Port) connector is intended for connection of only devices complying with IEC 60601-1, or other IEC standards (for example, IEC 60950), as appropriate to the device. Connecting additional devices to the Firefly Microscope System is not allowed. You are

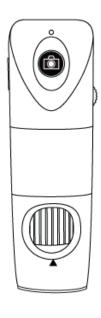
responsible for verifying that the system complies with the requirements of the system standard IEC 60601-1-1.

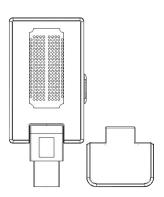


- This product complies with current required standards for electromagnetic interference and should not present problems to other equipment or be affected by other devices. As a precaution, avoid using this device in close proximity to other equipment.
- Do not apply alcohol, chemicals, or water to the lens. Any liquids entering the optical assembly will damage internal components.

CHECK LIST

Before starting, check that all the following items have been included with your product. If anything is missing, contact your dealer.







Version: 1.0

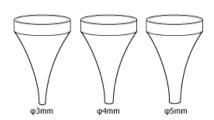
Microscope x 1pc

Receiver x 1 pc

FOV Extender x 1 pc







Software Application CD

Power Adapter x 1pc 100-240V AC to 5V USB DC Notice: Actual Shape may vary.

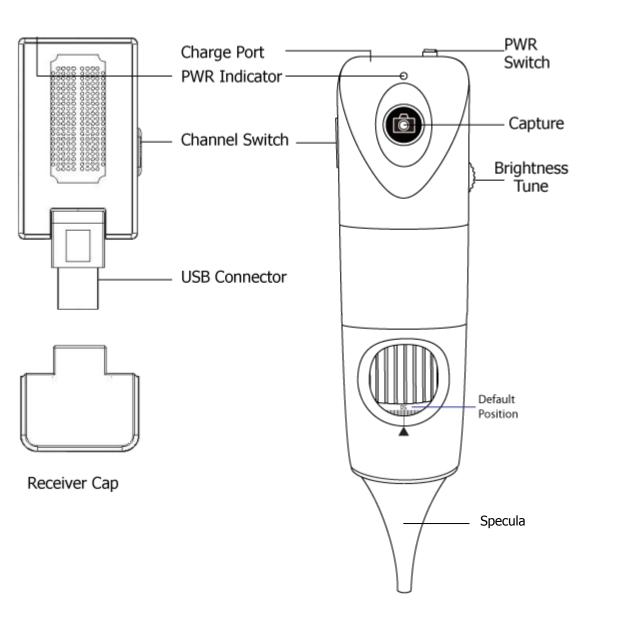
Specula (S/M/L) x 5 sets





User Manual for Wire	eless Firefly Microscope DE550	Version: 1.0
Clip x 1 pc	USB DC power cord x 1 pc	

NOMENCLATURE I



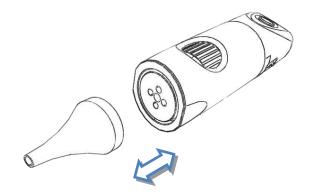
Version: 1.0

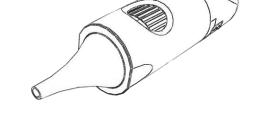
OPERATION

Setting up the microscope with specula:



Only accepts original specula qualified for use with Firefly microscopes



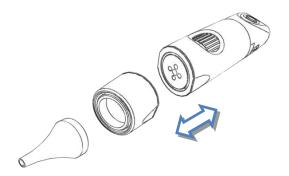


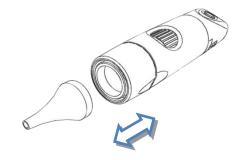
Version: 1.0

Plug the specula into the round concave guide in front. To remove: Simply pull to unplug the specula. Ensure a tight fit for proper operation.

Setting up the F.O.V extender and specula:

To obtain a deeper view of the subject under examination, the Field of View (F.O.V) extender may be attached.



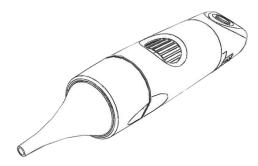


Version: 1.0

Plug the F.O.V Extender into the round concave guide in front of the microscope.

Plug the specula into the round concave guide in front of the F.O.V. Extender.

To remove: Simply pull to unplug the specula.





Ensure a tight fit for proper operation.

Setting up the software application:

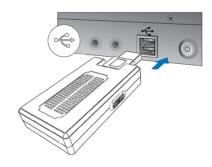
Prior to using the Firefly Microscope for the first time, install the FireflyPro software application following the instructions provided with the installation CD.

Setting up the software application:

Prior to using the Firefly Microscope for the first time, install the FireflyPro software application following the instructions provided with the installation CD.

Connect to PC:

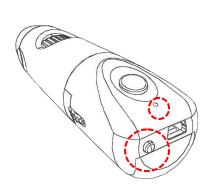
Connect the compact receiver to the PC's USB port

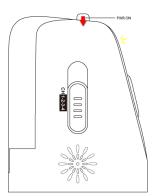


Version: 1.0

Power the Device On:

Push the 'Power Button' at the rear of the microscope to activate the device. An indicator light will turn on to confirm the power status.





Charging Battery:

■ Duration:

The Wireless Firefly Microscope has a built-in high efficiency lithium battery that enables more than 4.5 hours continuous operation.

■ Charging the Battery:

Through the mini-USB port at the rear of the microscope, the embedded battery can be charged with the provided USB DC cable. The cable must be connected to the USB port of a PC or to the "USB Power Adapter", which can charge directly from a wall outlet.

■ Overload Protection:

The overload protection circuit will prevent overcharging when the battery is full and the "Indicator" will turn green.

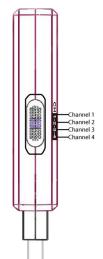
■ Power Indication:

The power indicator light is normally red during operation, but it will turn blue when the remaining battery life is less than 30 minutes.



The lithium battery is a delicate and consumable item. It is expected to last through years of use and is guaranteed for twelve months from its purchase against defects. If there is any battery related issue, please contact customer service immediately. Battery replacement by unauthorized personnel or replacement with unauthorized batteries may damage the system and voids the overall warranty.

Channel Mapping:

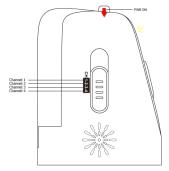


On the rear right side of the microscope, there is a switch allowing users to set the wireless channel. Both the receiver and microscope must be set to the same channel for proper operation:

- CH 1: 2.4GHz channel 1
- ◆ CH 2: 2.4GHz channel 2
- ◆ CH 3: 2.4GHz channel 3
- ◆ CH 4: 2.4GHz channel 4



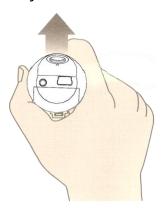




Using the Firefly Microscope System:

Recommended holding position:

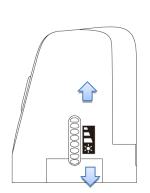
It is suggested to hold the microscope, transparent cover forward, with the thumb held on the equipment. This holding position offers relative stability and allows lens control. The index finger is still free to rotate and adjust the focus wheel (as shown).



Brightness Adjustment:

On left rear side of the microscope, a knob allows the user to control brightness of the LEDs:

Backward Turn: Decrease BrightnessForward Turn: Increase Brightness



Version: 1.0

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Using the image capture control:

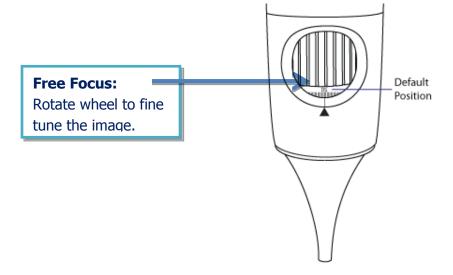
Press and release the Capture button to capture image frames. The system will generate a shutter sound from the PC speaker as confirmation. Capture



Using Focus:

Based on the relative distance of the observed object, the focus wheel can be turned for a clear image. When a higher magnification is required, the focus wheel can be turned to the left (see below). If a larger field of view is required, the microscope can be moved farther away and the wheel turned to the right.

Default Position: Match the scale 50 to arrow mark.



Function as a laryngoscope

The Firefly Microscope can be transformed into a laryngoscope by removing the specula and attaching a spatula on the clip.

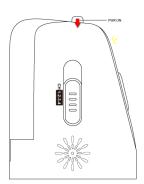


Version: 1.0

Standby and Remove device:

To temporarily turn off or remove the device, push and release the power button to the "OFF" position. The device must also be turned off through the Windows operating system:

 On your Microsoft Windows Desktop, click My Computer in the left pane. Double-click the USB Video Device (Wireless (Wireless Digital Microscope in Windows Vista and Windows 7).



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After turning off the device through Windows above, the compact receiver can be unplugged from the PC's USB port. Using this sequence will avoid transient voltages from potentially causing hardware damage.



Launch the Software Application:

Double-click the FireflyPro.exe icon on your computer desktop:



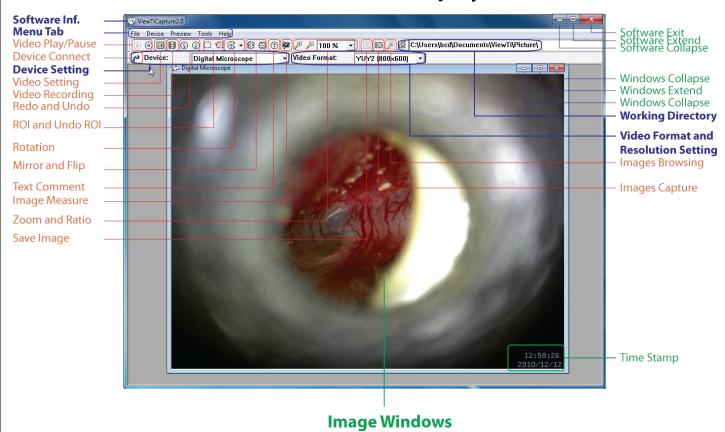
Viewing the Images:

FireflyPro software controls your Firefly Microscope. The Microscope communicates with the PC through the USB compact receiver. The user can configure the video properties, review live images, capture images, record video clips and perform a variety of powerful measurement and documentation functions.

Version: 1.0

The main features of FireflyPro are shown below:

Main Window Display



Tool bars

The Tools bars enable quick access to the functions of FireflyPro software. The tool bars can be grouped into Control, Images and Device tool bar sets.

Version: 1.0

Control tool bars:

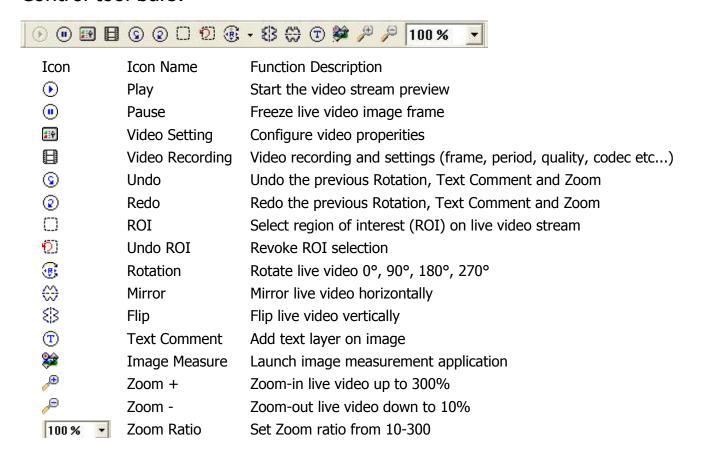
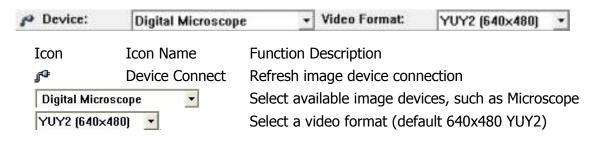


Image tool bars:

	C:\Documents and	Settings\My Documents\Firefly\Picture
Icon	Icon Name	Function Description
同	Save Image	Store frozen image
(O	Image Capture	Capture and store instant image from live video
	Image Browsing	Browse images in working directory
€Ğ	Working	Pop-up to select working directory path
C:\Documents an	Directory d Settings\My Documents\Firefly\Pictu	Edit working directory path

Device Tool bars:



Version: 1.0

MAINTENANCE AND SERVICE

Cleaning recommendation



CAUTION Do not apply alcohol, chemicals, or water to the lens. Any liquids entering the optical assembly will damage internal components.

Use a dry cloth to clean the Digital Firefly Microscope System on a weekly basis.

Version: 1.0

Recycling the system components

Within the EU



Do not dispose of this product as unsorted municipal refuse. Submit for separate collection as specified by Directive 2002/96/EC of the European Parliament and the Council of the European Union on Waste Electronic and Electrical Equipment (WEEE).

If this product is contaminated, this directive does not apply. For more specific disposal information contact Customer Service.

Outside the EU

When the product and its components reach end of life, recycle the product according to national, state, and local regulations.

Accessories

REF	Description
FY-MU-180	USB charger cable, 180cm length
GT600RU	USB Compact Receiver for PC
GT600RV	USB Compact Receiver for Video
FY-PWR-USB	100-240V AC to 5V DC USB >0.8A
FY-DE-3U	Replacement poly Speculum 3mm
FY-DE-4U	Replacement poly Speculum 4mm
FY-DE-5U	Replacement poly Speculum 5mm

Service policy

All repairs on products under warranty must be performed or approved by Firefly or its authorized resellers. Unauthorized repairs will void the warranty. In addition, whether or not covered under warranty, any product repair shall exclusively be performed by Firefly-certified service personnel.

Version: 1.0

If the product fails to function properly — or if you need assistance, service, or spare parts — contact your Firefly reseller.

Before contacting your reseller, try to duplicate the problem and check all accessories to ensure that they are not causing the problem. When calling, please be prepared to provide:

- ◆ Product name and model number and complete description of the problem.
- ◆ Serial number of your product (if applicable).
- ◆ Complete name, address and phone number of your facility.
- ◆ For out-of-warranty repairs or spare parts orders, a purchase order (or credit card) number.
- ◆ For parts orders, the required spare or replacement part numbers.

If your product requires warranty, extended warranty, or non-warranty repair service, please contact your Firefly reseller. A customer service representative will assist you in troubleshooting the problem and will make every effort to solve it over the phone, avoiding potential unnecessary returns. In case a return cannot be avoided, the representative will record all necessary information and will provide a Return Authorization number, as well as the appropriate shipping address. The Return Authorization number must be obtained prior to any return.

If you have to return your product for service, follow these recommended packing instructions:

- Disconnect all hoses, cables, sensors, power cords, and ancillary products (as appropriate) before packing, unless you suspect they are associated with the problem.
- ◆ Wherever possible use the original shipping carton and packing materials.
- ◆ Include a packing list and the Return Authorization number.

It is recommended that all returned goods be insured. Claims for loss or damage to the product are the responsibility of the sender.

SPECIFICATIONS -

em	Specification
Weight	Approximately 100 g (0.22 lb)
	Length: 11.4 cm (4.5 inches)
Dimensions (approximate)	Height: 3.7. cm (1.5 inches)
Datia	Width: 3.7 cm (1.5 inches)
Ratio	USB 5 VDC, 150mA
Protection against ingress of water	IPXØ
Operating conditions	
Temperature	+10°C to +40° C (+50°F to +104°F)
Relative humidity	30% to 75% noncondensing
Altitude	700 to 1060 hPa
Shipping and storage conditions	
Temperature	-20°C to +49°C (-4°F to +120°F)
Relative humidity	95% noncondensing max.
Wireless	Implemented with 2.4 GHz Technology
Power consumption	Less than 10mW
Sensitivity	-87dBm
Noise ratio	47dBm
Antennae resistance	50Ω
Channel spectrum	4 channels range from 2410 to 2470 MHz
Coverage	Longer than 5 meters (15ft) on open field
Battery (Lithium battery)	More than 4.5 hours continuous usage
Capacity	700mAh (Lithium battery)
Service	Authorized personnel only
Safety Compliance	FCC, CE and RoHS compliant
Patent	Patent Pending

LIMITED WARRANTY

Limited Hardware Warranty (through distributors & resellers)

FireFly Global hardware products purchased in the U.S. come with a 1-year limited hardware warranty. The warranty is extended through Firefly Global authorized representatives and resellers. If you have a warranty claim, please contact the store, distributor, or website through which the product was purchased.

What is covered by this limited hardware warranty?

This limited hardware warranty covers defects in materials and workmanship in your FireFly Global hardware products.

What is not covered by this limited hardware warranty?

This limited hardware warranty does not cover:

- Software, including the operating system and software added to or bundled with the FireFly Global hardware products
- Problems that result from:
 - External causes such as accident, abuse, misuse, or problems with electrical power
 - Servicing not authorized by FireFly Global
 - Usage that is not in accordance with product instructions
 - Failure to follow the product instructions
 - Problems caused by using accessories, parts, or components not supplied by FireFly Global
- Products with missing or altered serial numbers
- Products for which FireFly Global or its distributors have not received payment
- Normal wear and tear

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE (OR JURISDICTION TO JURISDICTION). FIREFLY GLOBAL'S RESPONSIBILITY FOR MALFUNCTIONS AND DEFECTS IN HARDWARE IS LIMITED TO REPAIR AND REPLACEMENT AS SET FORTH IN THIS WARRANTY STATEMENT. ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE TERM OF THE LIMITED WARRANTY PERIOD REFLECTED ON YOUR PACKING SLIP OR INVOICE. NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE LIMITED WARRANTY PERIOD HAS EXPIRED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THIS LIMITATION MAY NOT APPLY TO YOU.

WE DO NOT ACCEPT LIABILITY BEYOND THE REMEDIES PROVIDED FOR IN THIS LIMITED HARDWARE WARRANTY OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY LIABILITY FOR THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES, FOR PRODUCTS NOT BEING AVAILABLE FOR USE, OR FOR LOST DATA OR LOST SOFTWARE. OUR

LIABILITY WILL BE NO MORE THAN THE AMOUNT YOU PAID FOR THE PRODUCT THAT IS THE SUBJECT OF A CLAIM. THIS IS THE MAXIMUM AMOUNT FOR WHICH WE ARE RESPONSIBLE.

Version: 1.0

How long does this limited hardware warranty last?

The limited hardware warranty on all FireFly Global products begins on the date of the packing slip, invoice, or receipt. The warranty period is not extended if a warranted product or any parts are repaired or replaced. FireFly Global may change the availability of limited hardware warranties, at its discretion, but any changes will not be retroactive.

What do I do if I need warranty service?

Before the warranty expires, please contact the store, distributor, or website through which the product was purchased.

What will FireFly Global do?

FireFly Global or its authorized representative or reseller will repair any FireFly Global hardware products returned that prove to be defective in materials or workmanship. If FireFly Global or its authorized representatives are not able to repair the product, we will replace it with a comparable product that is new or refurbished.

When you contact our authorized representatives or resellers via phone or email, they will issue a Return Material Authorization Number for you to include with your return. You must return the products in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk if the product is lost or damaged in shipment. The repaired or replacement products will be returned to you. The reseller or authorized representative will pay to ship the repaired or replaced products to you if you use an address in the United States (excluding Puerto Rico and U.S. possessions and territories). Otherwise, the product will be shipped to you freight collect.

If it is determined that the problem is not covered under this warranty, you will be notified and informed of service alternatives that are available to you on a fee basis.

How will you fix my product?

We use new and refurbished parts made by various manufacturers in performing warranty repairs and in building replacement parts and systems. Refurbished parts and systems are parts or systems that have been returned to FireFly Global, some of which were never used by a customer. All parts and systems are inspected and tested for quality. Replacement parts and systems are covered for the remaining period of the limited hardware warranty for the product you bought. FireFly Global owns all parts removed from repaired products.

May I transfer the limited hardware warranty?

Limited hardware warranties are not transferable.

TROUBLESHOOTING

Frequently Asked Questions (FAQs):

Q1. What do I do if my Firefly Microscope and FireflyPro software suddenly stops working? Answer:

- a) Shutdown the Firefly Microscope and disconnect the USB data cable from the computer.
- b) Close the FireflyPro software.
- c) Wait for one minute, reconnect the USB data cord to system and switch the Microscope on.

Version: 1.0

- d) Double-click the FireflyPro icon on desktop to launch the software application again.
- Q2. When using the first version of Vista (not Vista SP1), there is a black visible region that randomly appears, what can I do to fix this?

Answer:

Please update Windows Vista through Microsoft update, or click Toolbar - "Set -" default" – "OK" to refresh the display.

Q3. What do I do when my computer is woken-up from standby or hibernation and FireflyPro software stops working?

Answer:

Please close and try restarting the software application again.

Q4. Why is there no image displayed on FireflyPro image windows? Answer:

- a. Please verify whether the device is connected properly
- b. Please switch the Microscope device "OFF" and back to either "LED1" or "LED2"
- Q5. The Microscope is connected to the PC, but why can it not be used? Answer:
 - a. Make sure the FireflyPro software is installed completely and properly.
 - b. Please verify whether the device is connected properly
 - c. Make sure the compact receiver is connected to the PC's USB port.
 - d. Please unplug the compact receiver and plug into the PC's USB port again.
- Q6. How do I uninstall the FireflyPro software?

Answer:

To uninstall, go to Start -> Settings -> Control Panel -> Programs and Features -> Uninstall

- Q7. Why does the video stream appear like a mosaic and update slowly (or not smoothly)? Answer:
 - a. Too many software programs may be running simultaneously and overloading the CPU, or the physical memory has reached its saturation. Please close unnecessary programs. If video stream doesn't improve, please reboot the system in order to release previously used memory.

- b. Check whether the system is infected by a virus.
- c. The PC may be too old to properly drive the video stream and does not meet the minimum standards set forth in the instructions. Please use faster system.
- Q8. What to do if the FireflyPro software application crashes? Answer:

If the system crashes, disconnect the USB data cable and switch off the Microscope. Re-boot the PC and, after system reboot, reconnect the Microscope, switch on and restart the FireflyPro application.

WIRELESS INTERFERENCE RECOMMENDATIONS

Last reviewed: January 27, 2011.

Many wireless products, such as cordless phones, home networks, Bluetooth devices, and baby monitors, share the 2.4-GigaHertz (GHz) radio frequency bands. As a result, these products are likely to interfere with each other. Interference might generate noisy images and degrade the video quality on the Wireless Firefly Microscope. Here's what you need to know to minimize interference:

Version: 1.0

<u>Interference immunity from cordless phones</u>

Most 2.4GHz cordless phones use frequency hopping spread spectrum (FHSS) technology that operates within the 2.4-GHz spectrum. FHSS hops from frequency-to-frequency across the entire 2.4GHz spectrum. The wireless Firefly Microscope and 802.11 WiFi wireless networks, on the other hand, use direct sequence spread spectrum (DSSS), which transmits within only a part of the 2.4 GHz spectrum. Because FHSS jumps across the entire spectrum while DSSS stays in only one portion, a FHSS 2.4GHz product can cause interference with the Wireless Firefly Microscope.

Choose a cordless phone that uses the 5.8-GHz, 1.9-GHz, or 900-MHz band

These frequency bands are not as widely used as 2.4-GHz and, therefore, are less likely to cause or receive interference. If you want a multiple-handset-capable cordless phone with handset-conferencing capability, choose one that uses only the 5.8-GHz or 1.9 GHz band. By contrast, nearly all phones using 2.4-GHz digital spread spectrum (DSS) technology and those that allow handset conferencing may create interference in other products, some even while in standby mode. Be aware that some cordless phones labeled as 5.8-GHz actually use both the 5.8-GHz and 2.4-GHz bands. DSS phones labeled as "wireless network friendly" or "802.11-friendly" are unlikely to interfere with wireless computer networks, but they may interfere with the Wireless Firefly Microscope and other wireless devices. Keep the 2.4-GHz analog phones as far away from the area as possible.

Lower the antenna position of cordless phone

If relocating or replacing the phone is not an immediate option, operate the cordless phone with the antenna in the lowered position if possible. This will dampen the RF signal coming from the cordless phone and reduce the amount of interference.

Keep your distance

After above adjustment, try keeping the conflicting cordless phone as far away as possible, such as in different rooms.

Fine tune the position of the compact receiver

Try different angles on the compact receiver. A flat horizontal orientation or vertical orientation may produce better results.

Interference immunity from wireless networks

Like most wireless products, the wireless Firefly Microscope allows you to operate at 4 separate channels (residing on frequency range index of 2414, 2432, 2450 or 2468±10 MHz).

The 802.11 wireless networks use direct sequence spread spectrum (DSSS), which transmits within approximately one third of the 2.4 GHz spectrum, and it is possible to change the channels of 802.11 networks on a wireless router by entering the administration mode.

Change Access Point or Wireless Router channels

Normally the WiFi wireless network router or access point uses #6 as the default channel, which is located in the center of the 2.4-GHz spectrum. This can easily conflict with the wireless Firefly Microscope's spectrum. Try changing the channel on the access point (i.e. 1, 6, and 11). Anecdotally, users have found they have the least interference on channel 11 while the wireless Firefly Microscope's channels are set to 3 or 4.

Change the relative location of the Access Point

Maximize the distance between the wireless Microscope and WiFi devices.

Fine tune the position of the compact receiver

Try different angles on the compact receiver. A flat horizontal orientation or vertical orientation may produce better results.

Interference is an unfortunate byproduct of numerous wireless products today. While there is no guarantee the actions above will work, they may reduce interference to acceptable levels.

