

# FiberView

## FV-3100

### User's Guide and Software Manual

#### Specifications

Field of View	~ 1400 $\mu$ m x 1000 $\mu$ m
Resolution	0.5 $\mu$ m detectable
Focus	Manual adjustment range +/- 2mm
Axis adjustment	Manual X & Y adjustment range +/- 1mm
Light source	Blue LED
Power Supply	PC USB2.0 port
Dimensions	H 210mm (with tip), W 120mm, D 123mm
Weight	915g
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 70°C
System Requirements	Windows XP, Vista, Windows 7, Windows 8. 32 and 64-bit systems supported

*The FiberView FV-3100 system is a precision instrument designed for easy viewing of larger diameter cleaved or polished connectorized fiber endfaces. It includes intuitive software for image capture, saving and reporting of endface conditions.*

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## Warranty

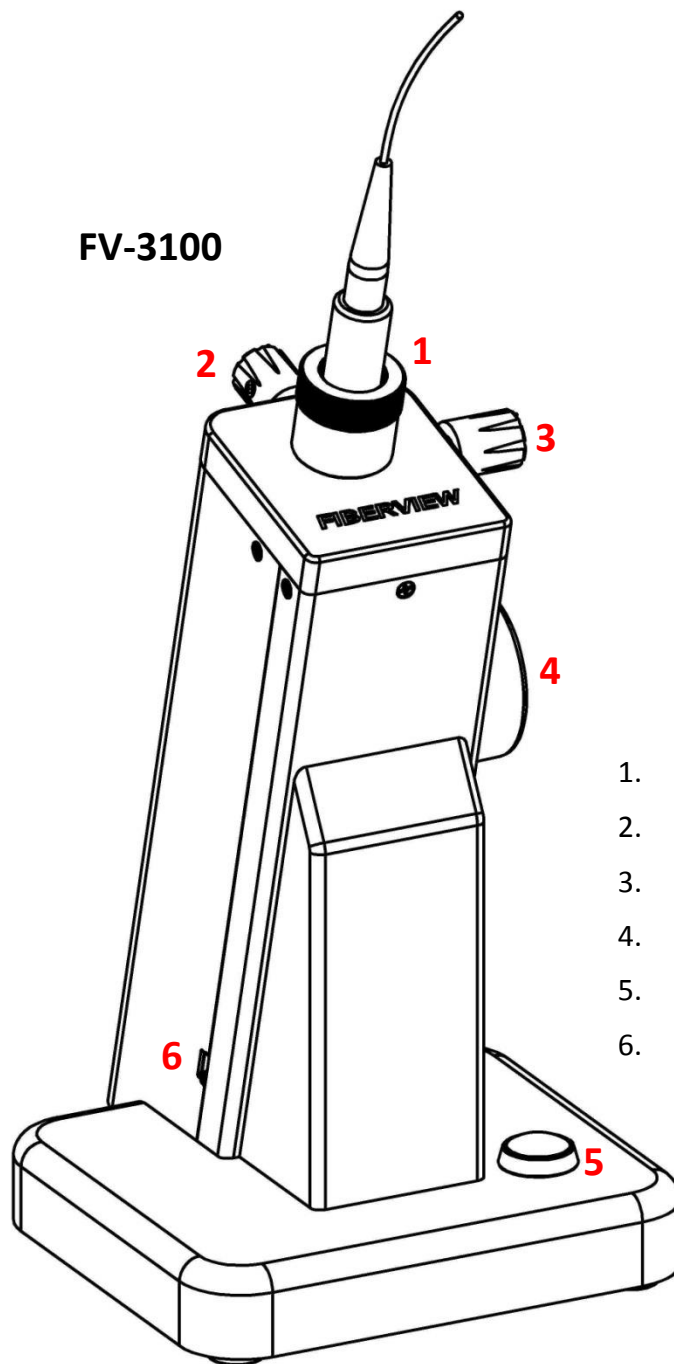
Lightel Technologies, Inc. products are shipped only after passing a final inspection by Lightel's Quality Assurance program. In the event of a product failure please contact the Lightel Sales Department at (425)277-8000 or email [sales@lightel.com](mailto:sales@lightel.com)

The warranty period is for **one year** after the date of delivery. Should failure occur within that period, repair or replacement will be made, as necessary, free of charge. The Warranty will not be honored if:

1. Failure is caused by usage non-conforming to the instruction manual or negligent operation.
2. Failure is caused by an unauthorized electric or mechanical modification by the customer.

*The extent of the warranty shall be limited to repair or replacement of the defective unit.*

## Identification of Parts



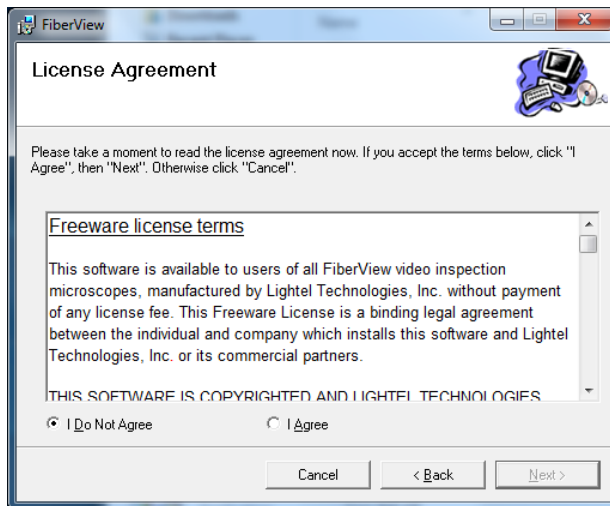
## FiberView Software Installation

Locate the Lightel FiberView driver and software CD on your computer, and click on the Setup.exe file to start the installation. (If you are installing from a downloaded file, *extract the zipped file and click on the Setup.exe file. Then proceed in the same manner.*) An installation screen will appear: \*

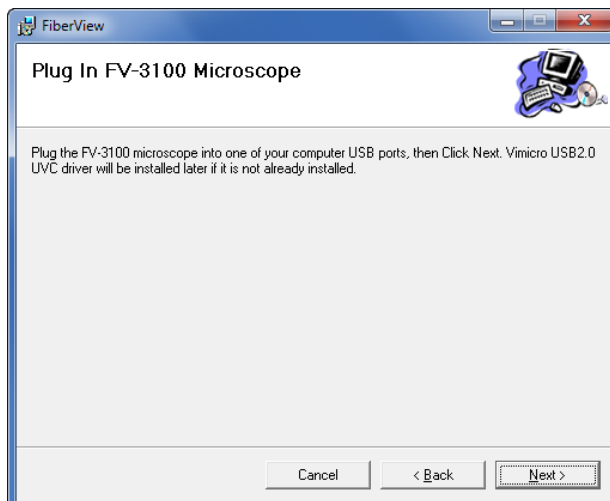


*\* Lightel's FiberView software needs the support of .NET Framework 2.0 or higher. If your computer does not have .NET Framework 2.0 installed, you will be prompted to download it from the Microsoft website. Follow the instructions to download and then finish the installation. Alternatively, you can run "dotnetfx.exe" on the FiberView CD to install .NET Framework 2.0 onto your computer before running Setup.exe.*

Click [Next].



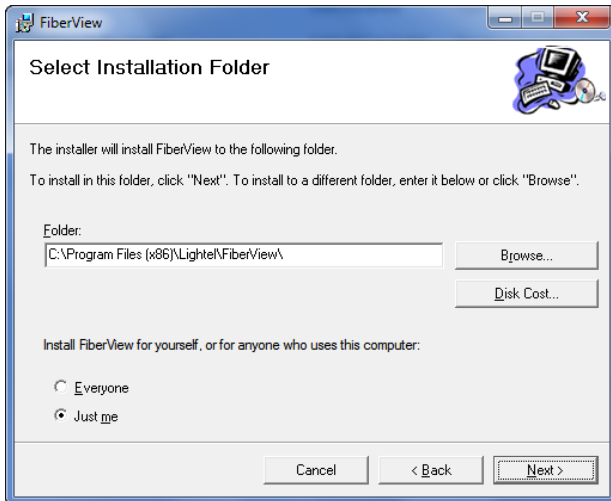
Please read the Freeware License Agreement. You must click "I Agree" to continue the installation process.



Attach your FV-3100 Microscope to your computer.

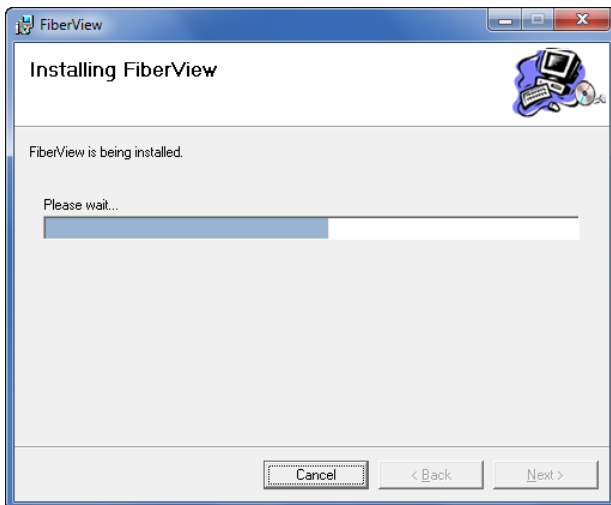
*Note: Pictures shown are from Windows 7, 64-bit operating system. Depending on the operating system, your windows may vary slightly.*

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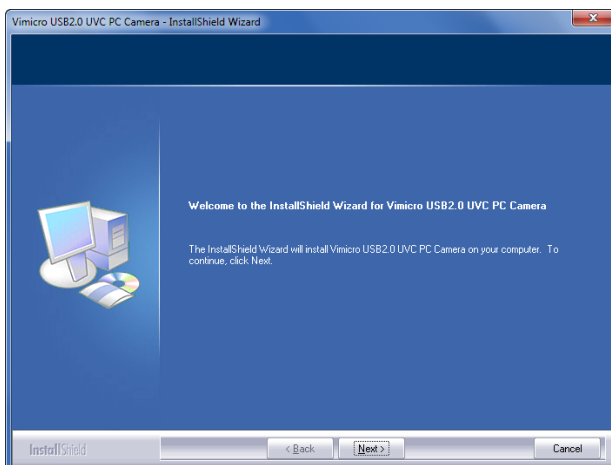


Accept the default installation folder “C:\Program Files (x86)\Lightel\FiberView\” or select your own folder.

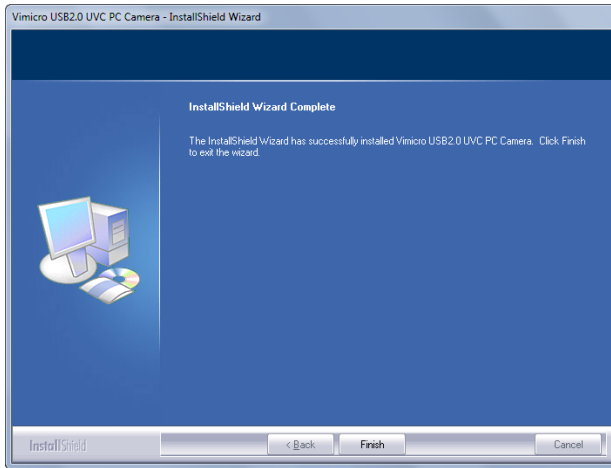
Click [Next].



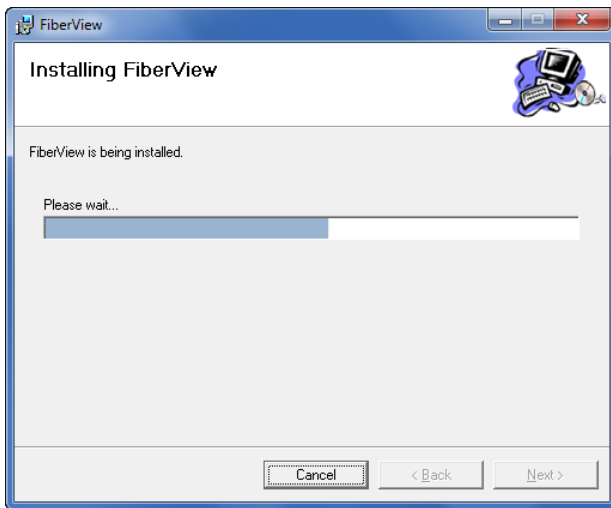
FiberView will begin to install. At this point a window will open for installation of the Vimicro driver (unless this driver has been previously installed on your computer).



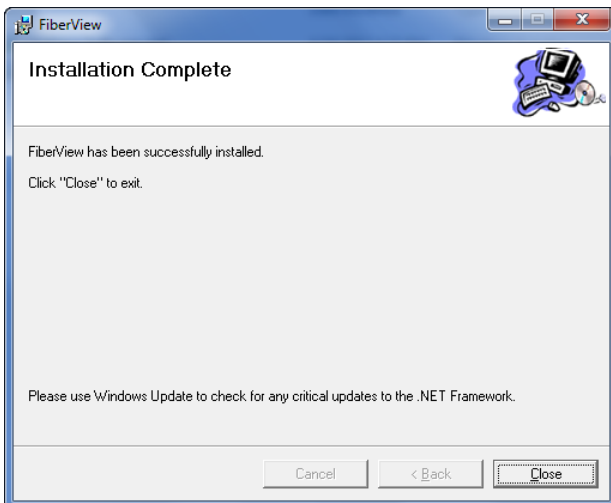
Click [Next] on the Vimicro window to install the driver. This may take a moment to complete.



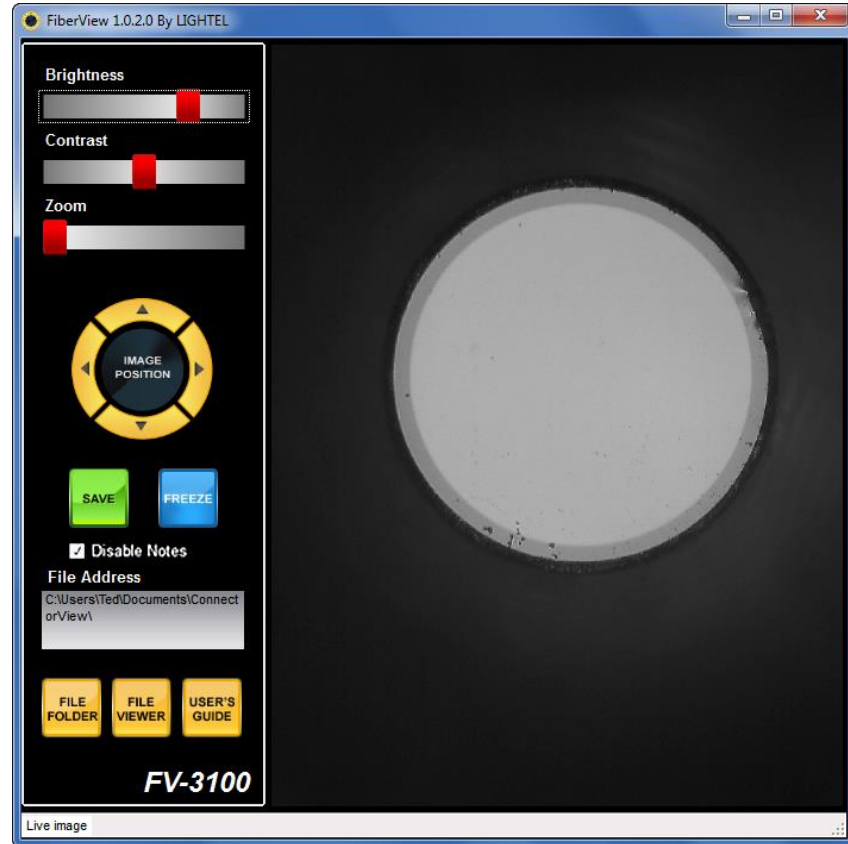
When the Vimicro installation is complete, click [Finish]. This will close this window and return you to the FiberView software installation.



Final configuration of FiberView will now be completed.



## Main Window



**Brightness** – Slider to adjust image brightness.

**Contrast** – Slider to adjust image contrast.

**Zoom** – Slider for digital zoom from 1 to 3 times original magnification. Digital zoom does not change the resolution, but may enable you to more easily see smaller items.

**Image Position** – The arrows can be used to quickly center or move across a zoomed image. Use the hardware adjustment knobs to position an unzoomed image. *(Note: These controls are not available until the image is zoomed.)*

**[Freeze/Live]** – Button toggles between a frozen and a live screen. The caption on the button indicates what will occur when the button is pushed.

**[Save]** – Button by default starts the Save sequence by opening the Notes Window. If "Disable Notes" has been checked, the Notes Window is bypassed and the image is saved directly. Live, frozen and zoomed images can be saved.

**File Address** – Shows the location on your computer where the image reports are currently being saved.

**[File Folder]** – Opens the window for the folder where the image reports are currently being saved. You can use this button to change storage locations or create new storage folders.

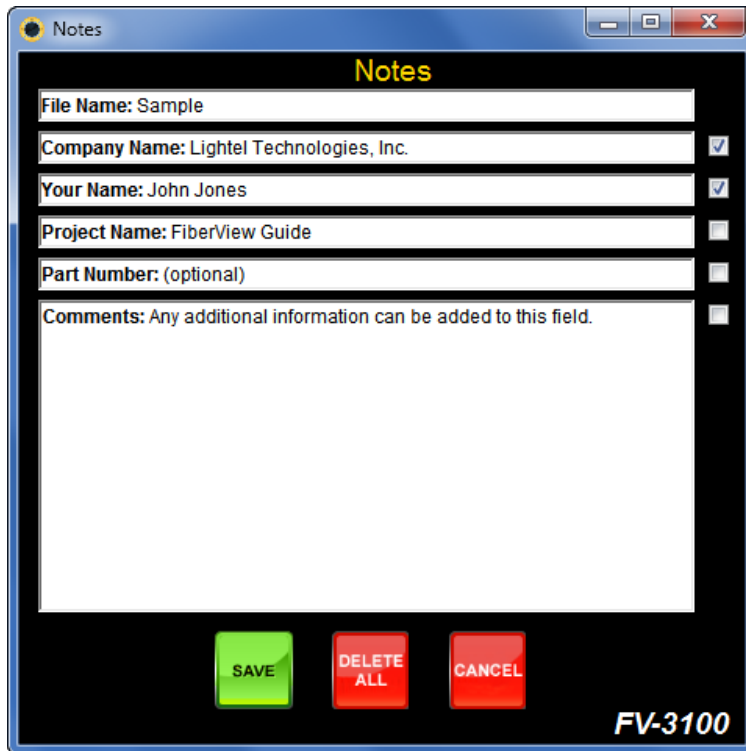
**[File Viewer]** – Opens the File Viewer Window for easy browsing of all your image reports.

**[User's Guide]** – A quick way to open this guide for reference.

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## Notes Window

This window opens when the [Save] button in the Main Window is pressed. Information typed here will be entered in the next saved image report.

The Notes window is a standard Windows-style dialog box with a title bar that says "Notes". It has a yellow title bar. The main area contains several text input fields: "File Name: Sample", "Company Name: Lightel Technologies, Inc.", "Your Name: John Jones", "Project Name: FiberView Guide", and "Part Number: (optional)". To the right of each field is a checkbox. The checkboxes for "Company Name" and "Your Name" are checked. Below these fields is a larger text area labeled "Comments: Any additional information can be added to this field." At the bottom of the window are three buttons: "SAVE" (green), "DELETE ALL" (red), and "CANCEL" (red). The text "FV-3100" is visible in the bottom right corner of the window.

**File Name** – Enter the product S/N or other unique file name. If nothing is entered, the Date/Time will be used for the default file name.

*Note: Windows forbids the use of some characters in file names. Using one of these characters will result in the report failing to be saved. The invalid Windows file name characters are:  
\\ / : \* ? " < > |*

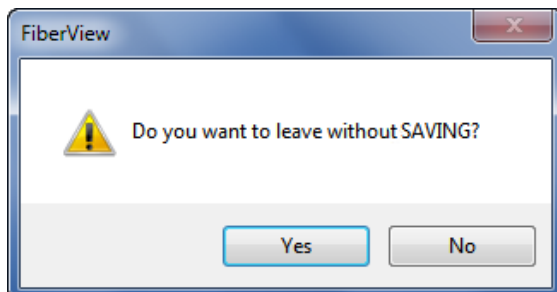
**Checkboxes** – If a checkbox is selected, the information typed in that row will be used in all successive notes. If a checkbox is not selected or the check is removed, information typed in that row will be used only in the next saved note.

**Comments** – Any comments you enter will appear along the side of the image report.

**[Save]** – Completes the Save sequence by saving the information currently displayed in the Notes Window and the currently displayed fiber image.

**[Delete All]** – Clears all information and checkboxes.

**[Cancel]** – Returns you to the Main Window without saving any information which you entered this time and without saving the image.

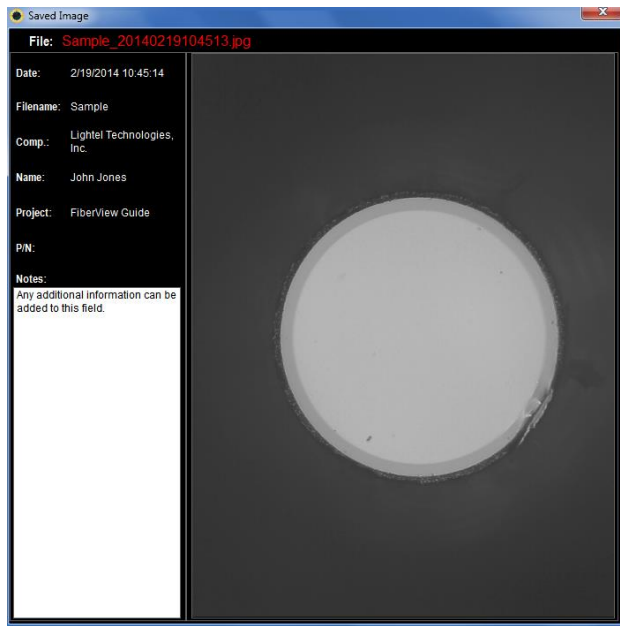


If you press [Cancel] a window will open to verify that you do not wish to Save.

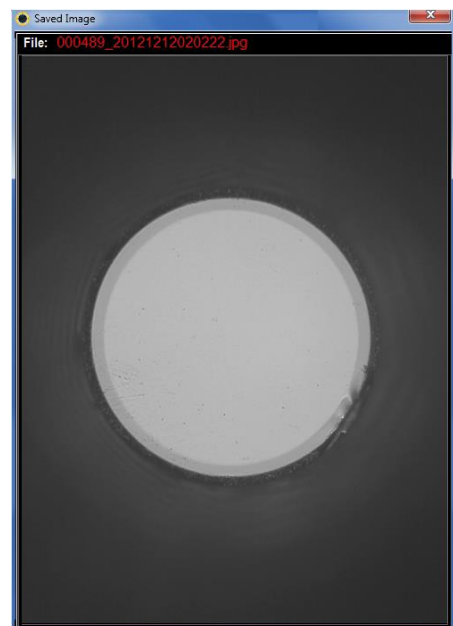


## Saved Report Window

When you save an image report, it is stored in the location shown in the File Address box of the Main Window. Saved reports are image files and can be viewed with any standard picture file viewer.



**Standard Saved Report**



**Saved Report (Notes Window Disabled)**

Reports are saved by clicking the green [Save] button in the Main Window. By default the Notes Window will open and you may add any information you wish to include. The report will only be saved when you click the green [Save] button in the Notes Window.

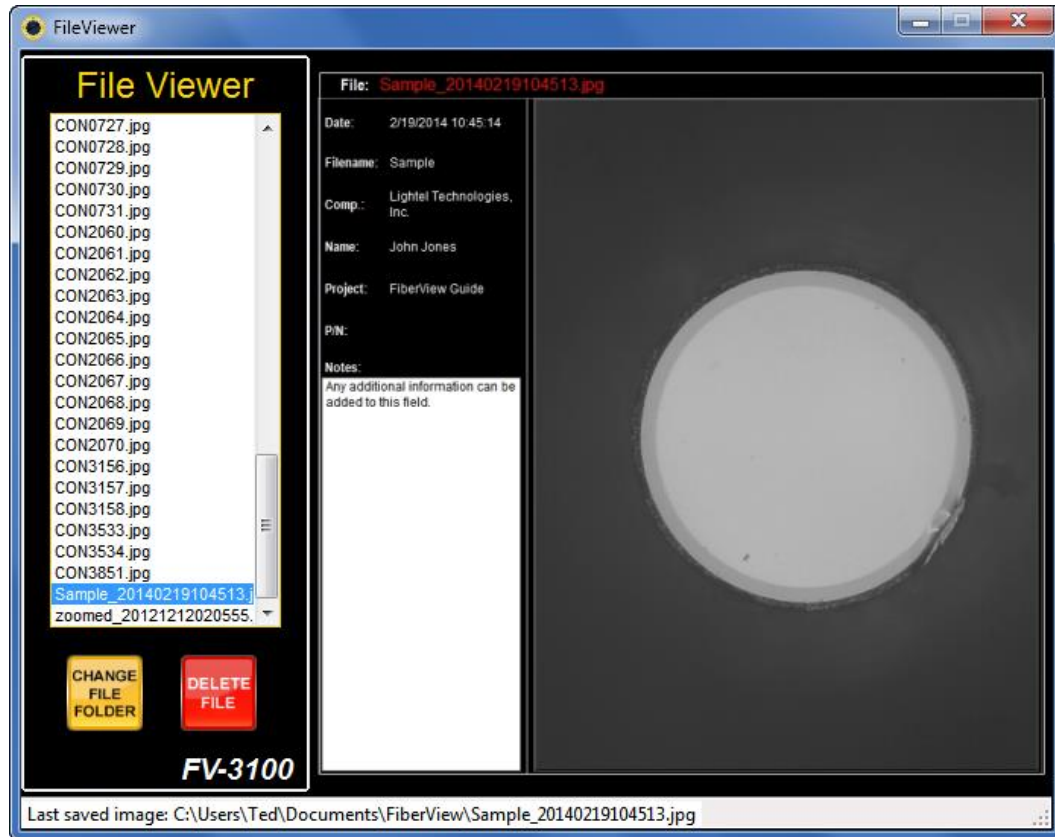
If the "Disable Notes" box is checked, the image is saved immediately when the green [Save] button in the Main Window is clicked. The date/time stamp will automatically become the file name.

All saved reports contain an image and a date/time stamp. If you have entered information in Notes window, that information will also be added to the report.

The report will be displayed when it is saved. Use the red X in the upper right corner of the window to close the report or click on the image in the Main window.

## File Viewer Window

This window opens when the [File Viewer] button in the Main window is pressed. The File Viewer provides a quick way to browse, review or locate specific reports.

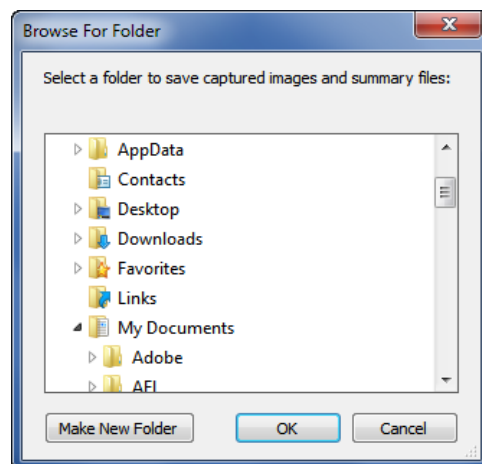


The box on the left of the window is a list of all the image reports in your current storage folder. Clicking on a file name will display the image report on the right side of the window.

Clicking the [Change File Folder] button will open the Browse for Folder window to allow you to view reports in other locations.

You can delete image reports you do not wish to keep with the [Delete Folder] button.

Use the red X in the upper right corner of the window to close the File Viewer.



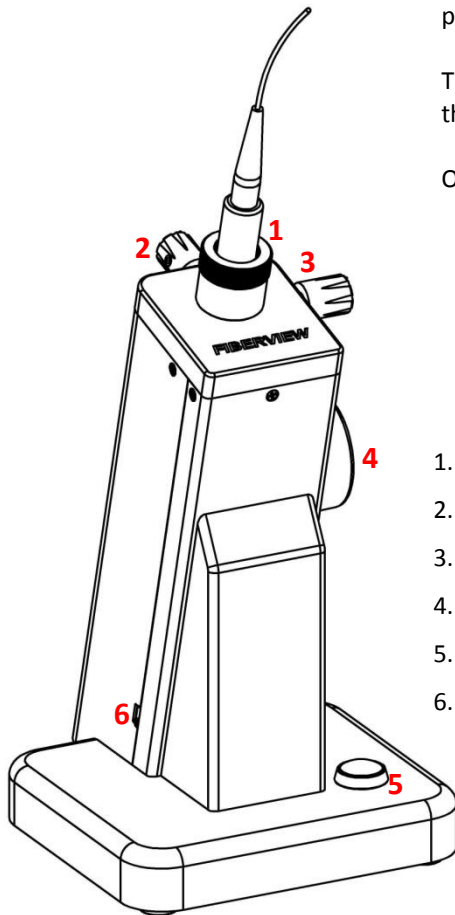
## Getting Started

Once you have installed the FiberView driver and software, use the included USB mini-B cable to connect the FiberView FV-3100 to your computer (6). (No image will be present if the software is opened first.)

After removing the protective tip cover, insert the fiber in the receptacle tip (1), and use the Focus Knob (4) to achieve a preliminary focus.

Then use the adjustment knobs (2) and (3) to center the fiber.

Once centered, you may want to further improve the focus.



1. Fiber receptacle tip
2. Horizontal adjustment (X-axis)
3. Vertical adjustment (Y-axis)
4. Focus knob
5. Freeze image button
6. USB2.0 (mini-B) port

Using the available features in FiberView software will enable you to save the image, more closely examine fiber details (Zoom), provide additional details and information in your reports (Notes) and easily organize and search through your reports (File Viewer) in addition to saving your image reports.