



Use of Record-IT!! with FinePointe™ Software

USER MANUAL

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Welcome

Congratulations on joining the community of users worldwide who rely on DSI Respiratory products to perform preclinical physiologic research. Thank you for your interest in our products. We are committed to providing you with quality products and services.

This manual will help you get to know your Record-IT! Media system for the use with FinePointe™ software. The structure of the manual was designed to sequentially guide you on how to integrate Record-IT! Media system.

Assumptions

- FinePointe™ 2.8 or above is installed (see the FinePointe™ Installation Guide)
- The user knows how to create a FinePointe™ Hardware Configuration, acquire data, and open collected data (see earlier sections of this document)
- The user has installed Panlab Record-IT! Media software version 1.0.00 or greater from DSI and has a license dongle inserted into the computer (see the Record-IT! Media software manual for installation assistance)
- The user has access to ONVIF Network Cameras (such as those supplied by DSI)

Application Overview

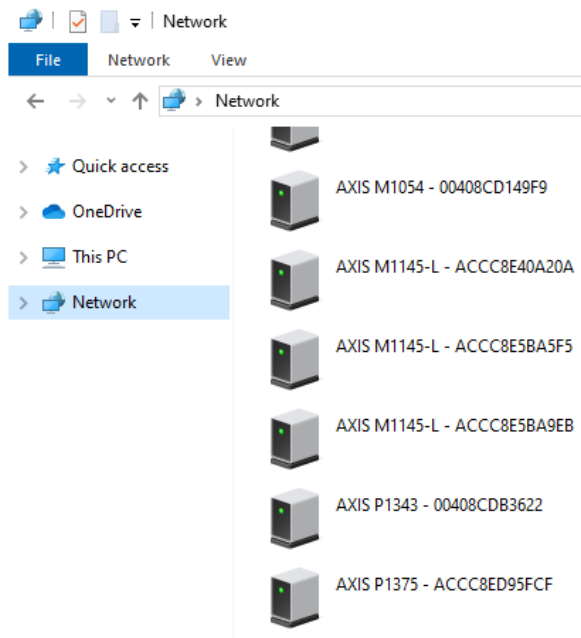
FinePointe™ Video Option

Collecting synchronized video data from ONVIF network cameras between FinePointe™ and the Panlab Record-IT!! Media software is a feature in FinePointe™ since version 2.8 and Record-IT! version 1.0.00 or greater. While the two programs run separately, the FinePointe™ software has integrated the user interface for Record-IT! to create an easy user experience. This section will discuss how to launch the Record-IT! program through FinePointe™, configure ONVIF network cameras, assign these image sources to subjects, and later view the collected synchronized data.

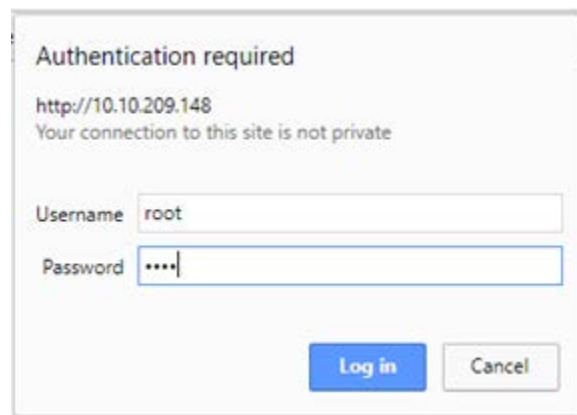
Setting Up the Axis Cameras

IP cameras are connected directly to a network. IP cameras are especially useful to film remote locations and receive the video files through an ethernet network on your computer. The PanLab Record-IT! software is compatible with Axis IP Cameras. In order to configure Axis IP Cameras in Record-IT!, a few camera settings are required to be updated first.


1. Open Windows Explorer and select the Network folder to display the connected network devices and cameras



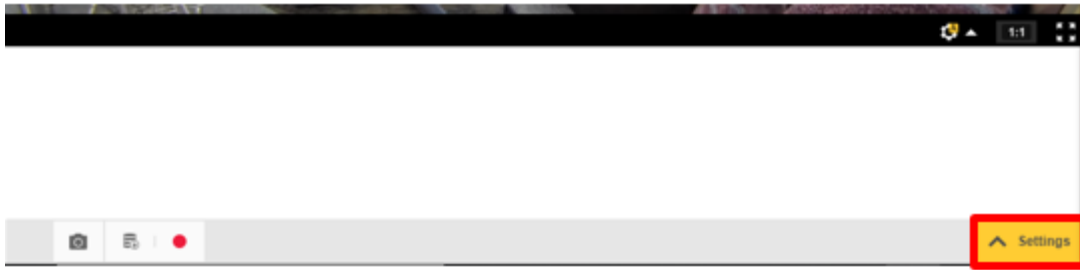
2. Double-click the camera to launch its webpage. When prompted for authentication, enter the following:
 - i. Username: root
 - ii. Password: root



- iii. Note the IP Address of the camera, as it will be needed later when configuring the cameras in the Record-IT! software

	<p>Important: From here there are two types of menus that may appear, depending on the camera model that you are using. Follow the steps below, following the A or B instructions based on your available menu views.</p>
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3. Enter the camera settings menu by one of the following:
 - a. Select the Settings button on the bottom right of the webpage

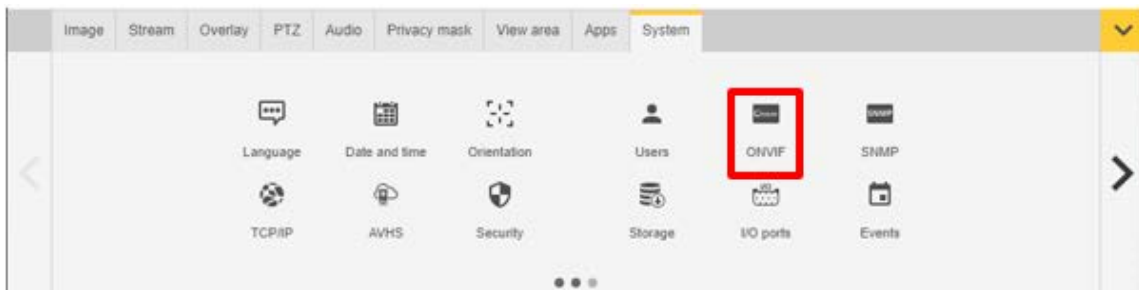


b. Select the Setup link on the upper right of the webpage



4. Locate the ONVIF system settings by one of the following:

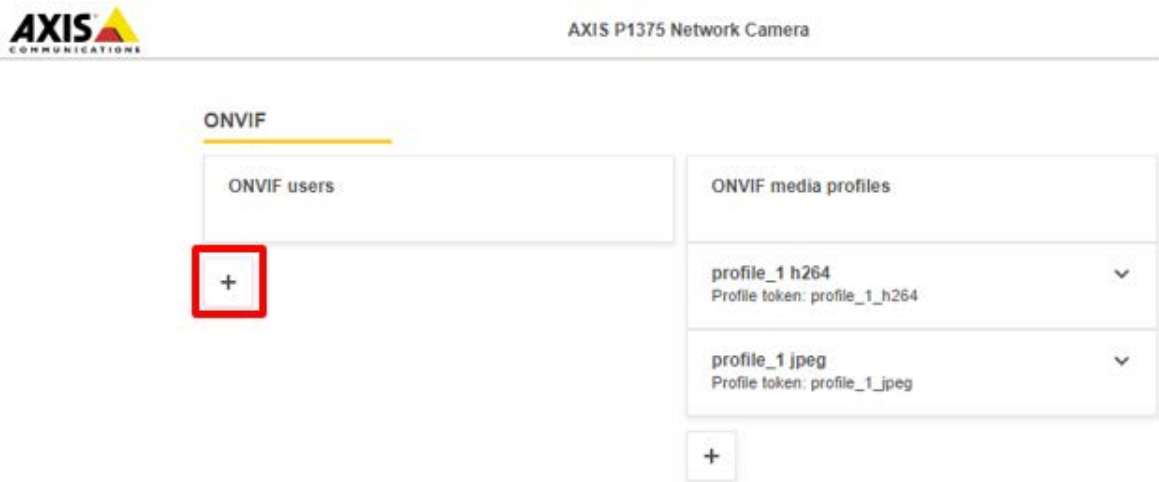
a. Select System from the tabs options along the top of the flyout menu, and then select ONVIF



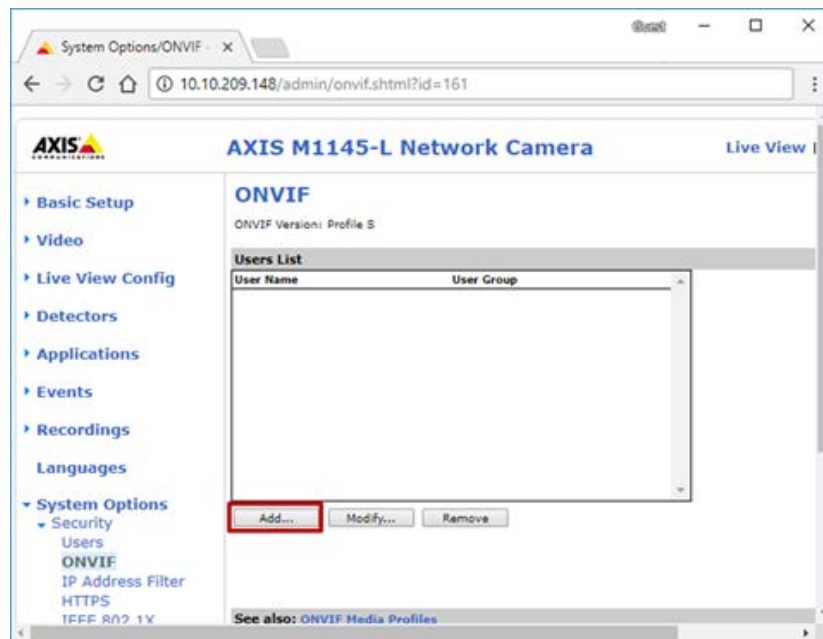
b. Expand the System Options header, and then select ONVIF



5. Add a new ONVIF user by one of the following:
 - a. Click the + button under the *ONVIF users* list



- b. Click the Add... button under the *ONVIF users* list



6. When prompted, enter the following and then click Save:

Username: onvifadmin
Password: onvifadmin
User Group: Administrator

- a.

ONVIF


ONVIF users

New Administrator

Username

New password

Repeat password

Password strength: Medium


User group

b.

System Options/ONVIF Us... - [] [X]

Not secure | 10.10.209.148/operator/onvif_u...

ONVIF User Setup ?

User name:

Password:

Confirm password:

User group:

Media user

Operator

Administrator

7. The Record-IT! software does not control the video screen resolution or frame rate; these settings must be adjusted in the ONVIF media profiles, which are then selectable within Record-IT! media. We recommend using the default **profile_1 jpeg** profile, but if you wish to change any settings you can do so by expanding an existing profile or creating a new one. Consult the manual for your camera for more information.

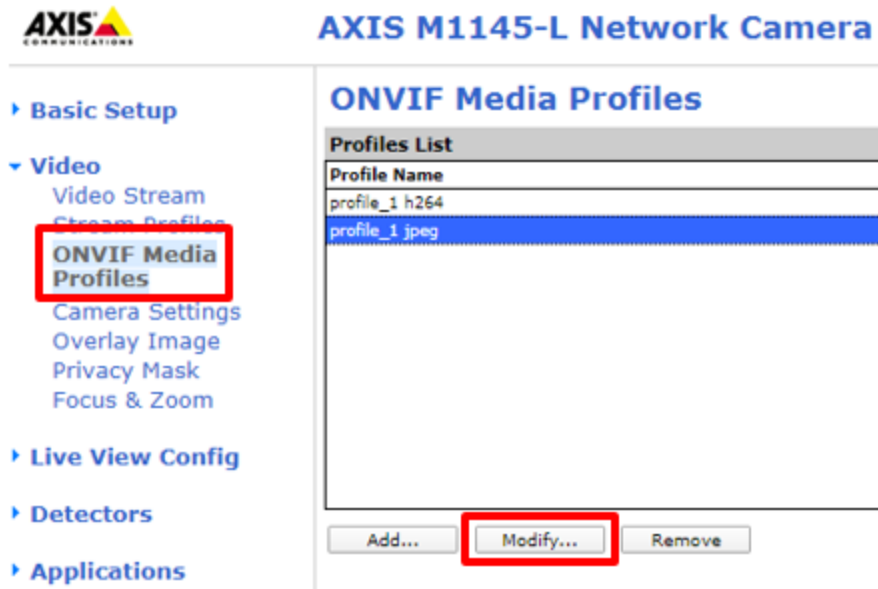
If you'd like to see or modify a profile's setting's, do so by one of the following:

- a. Expand the appropriate profile under ONVIF media profiles and make your desired adjustments

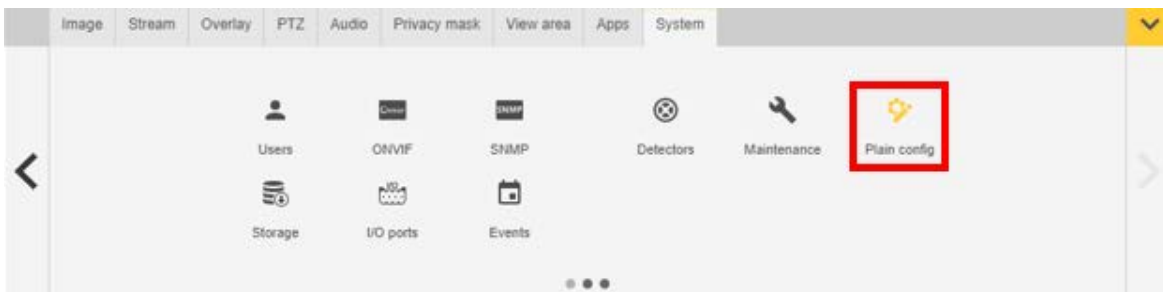
ONVIF

The screenshot displays the ONVIF configuration interface. It is divided into two main sections: 'ONVIF users' and 'ONVIF media profiles'. In the 'ONVIF users' section, the user 'onvifadmin' (Administrator) is listed with a dropdown arrow. A '+' button is located below this section. The 'ONVIF media profiles' section lists two profiles: 'profile_1 h264' (Profile token: profile_1_h264) and 'profile_1 jpeg' (Profile token: profile_1_jpeg). A red box highlights the dropdown arrow next to the 'profile_1 jpeg' profile. Below this, a '+' button is present. The 'profile_1 jpeg' profile is expanded, showing its configuration details: Profile name (profile_1 jpeg), Video source (user0), Video encoder (default_1 jpeg), Audio source (None), Audio encoder (None), and Metadata (None). Red boxes highlight the dropdown arrows for 'Video source' and 'Video encoder'. At the bottom of the expanded profile, there is a trash icon and a blue 'Save' button, which is also highlighted with a red box.

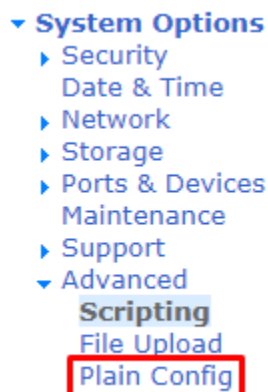
- b. Expand the Video header and select ONVIF Media Profiles, highlight the appropriate profile, and click Modify...



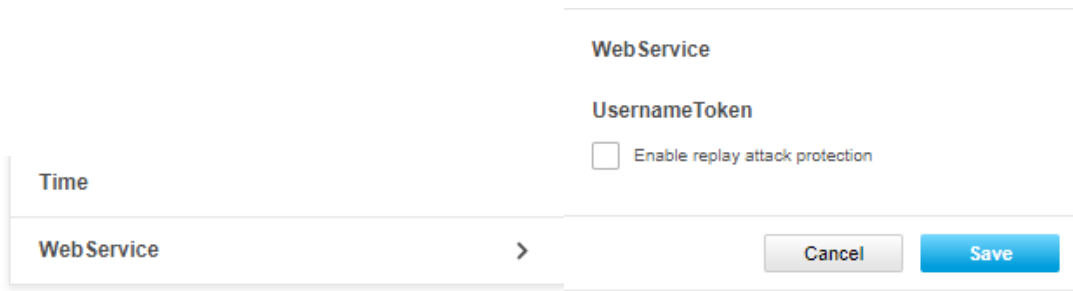
8. Locate the Plain Config setting
 - a. Within the System tab, click Plain config



- b. Expand the System Options header, Expand the Advanced header, and click Plain Config



9. Disable the Enable reply attack protection settings
 - a. Select Webservice from above, and Uncheck the *Enable reply attack protection* box, then click Save



- b. Choose WebService from the dropdown menu, click “Select group”, Uncheck the *Enable replay attack protection* box, then click Save



WebService

WebService UsernameToken:

Enable replay attack protection:

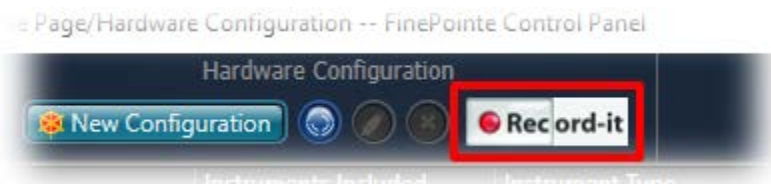
Save page changes:

Repeat above steps for any additional Axis IP Cameras. Note that each camera has its own ONVIF media profiles, so if you would like to change a camera setting (resolution, frame rate, etc) you will need to make that same change on all cameras.

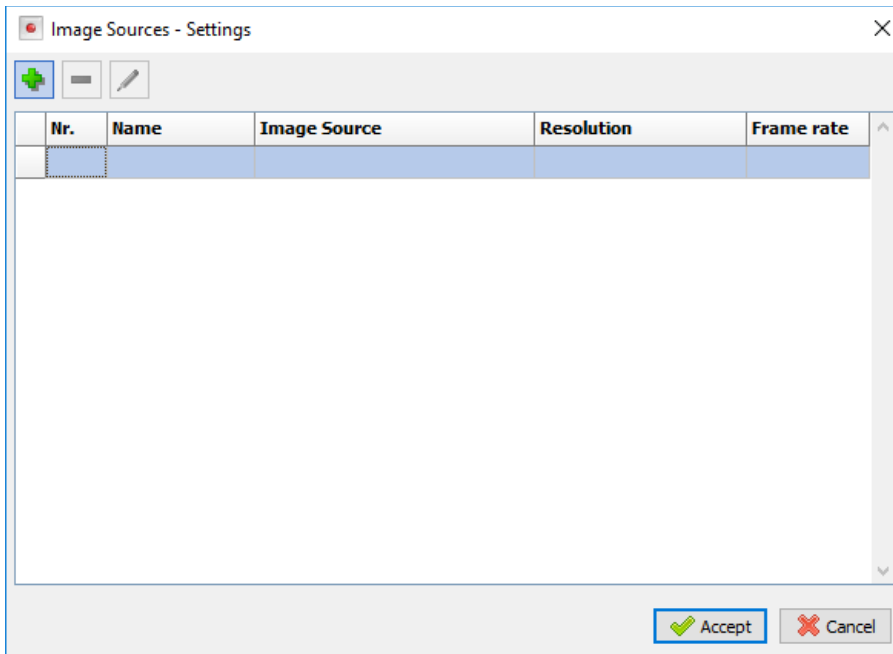
Configuring the Cameras in FinePointe™

These are the steps for launching the Record-IT! Media software through FinePointe™, adding cameras as Image Sources, and then assigning those Image Sources to subjects within the FinePointe™ Hardware Configuration.

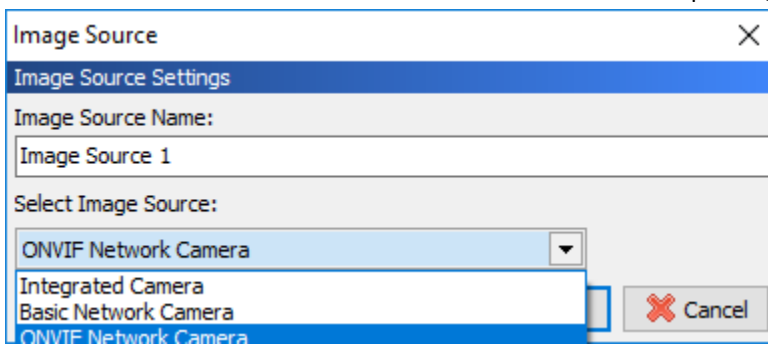
1. Log in to the FinePointe™ Control Panel using a Windows administrator username and password
2. Click on Hardware Configuration
3. Click the “Record-IT!” button near the top



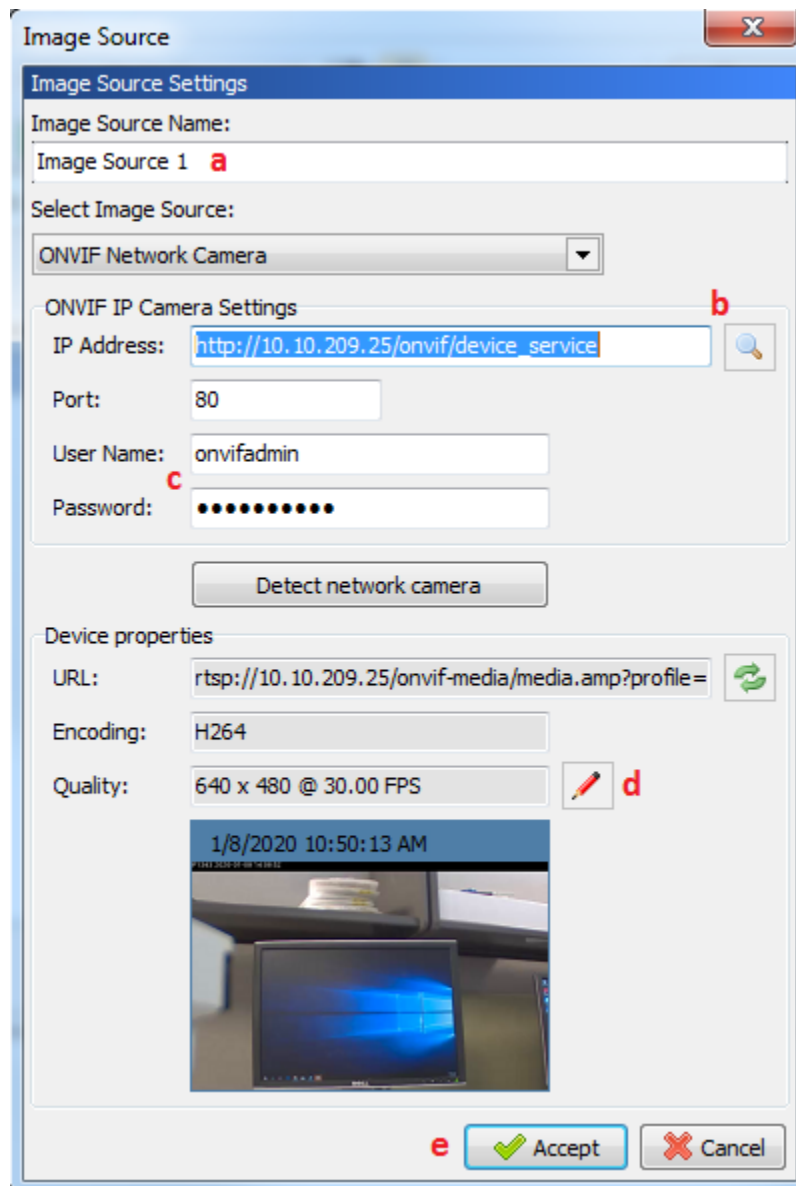
4. The Image Sources dialog with automatically appear. Click the green + sign to open the Image Sources dialog



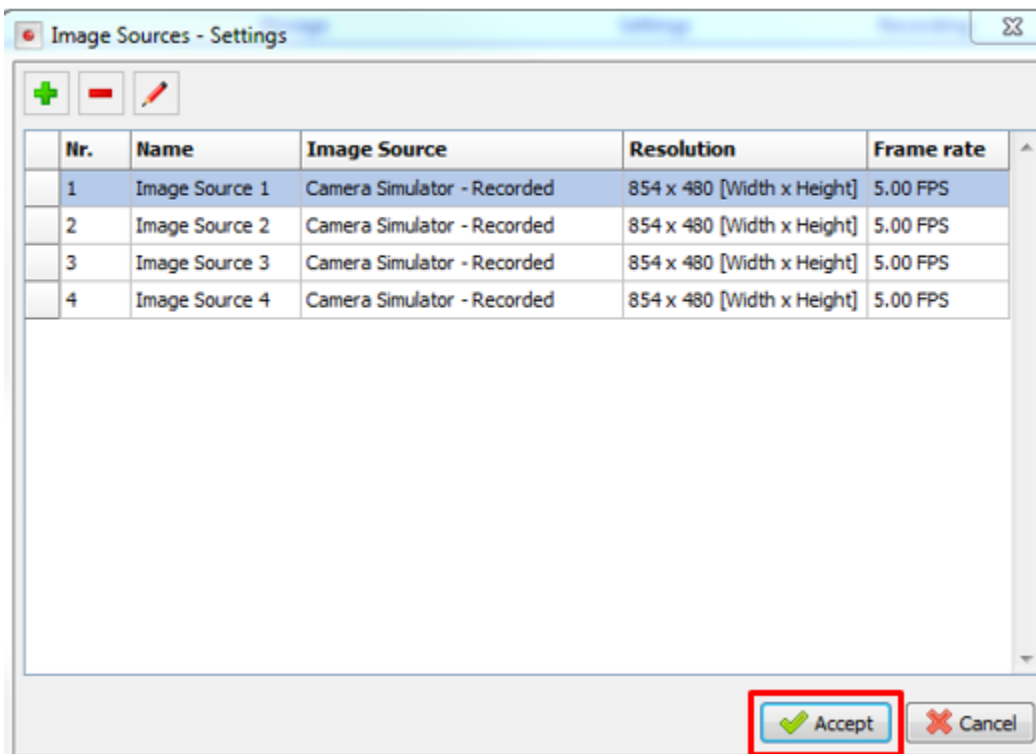
5. Give the camera a name and select ONVIF camera from the dropdown, then click Accept



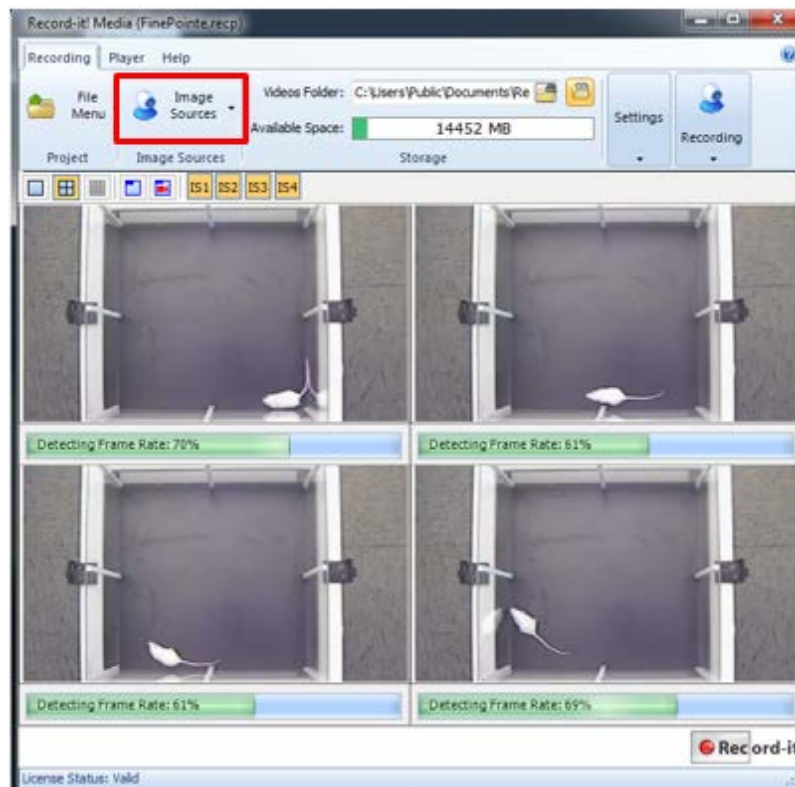
6. This opens the Image source window
 - a. Give the camera a name if desired
 - b. Type in the IP Address of the network camera, or click the magnifying glass to search for all Network cameras
 - c. Enter the ONVIF admin username and password created in the above steps (username and password both **onvifadmin**)
 - d. Click on the Pencil icon to the right of the Quality field to open the ONVIF Video Profile Selector window, which allows you to select a different ONVIF media profile. If you wish to change settings such as resolution or frame rate, you must do so from the ONVIF media profile of each individual camera. See Step 7 under "Setting up AXIS Cameras" above.
 - e. Click Accept
 - f. Repeat the above steps 4 and 5 for all additional cameras



7. Click Accept within the Image Sources window once all the desired cameras are configured

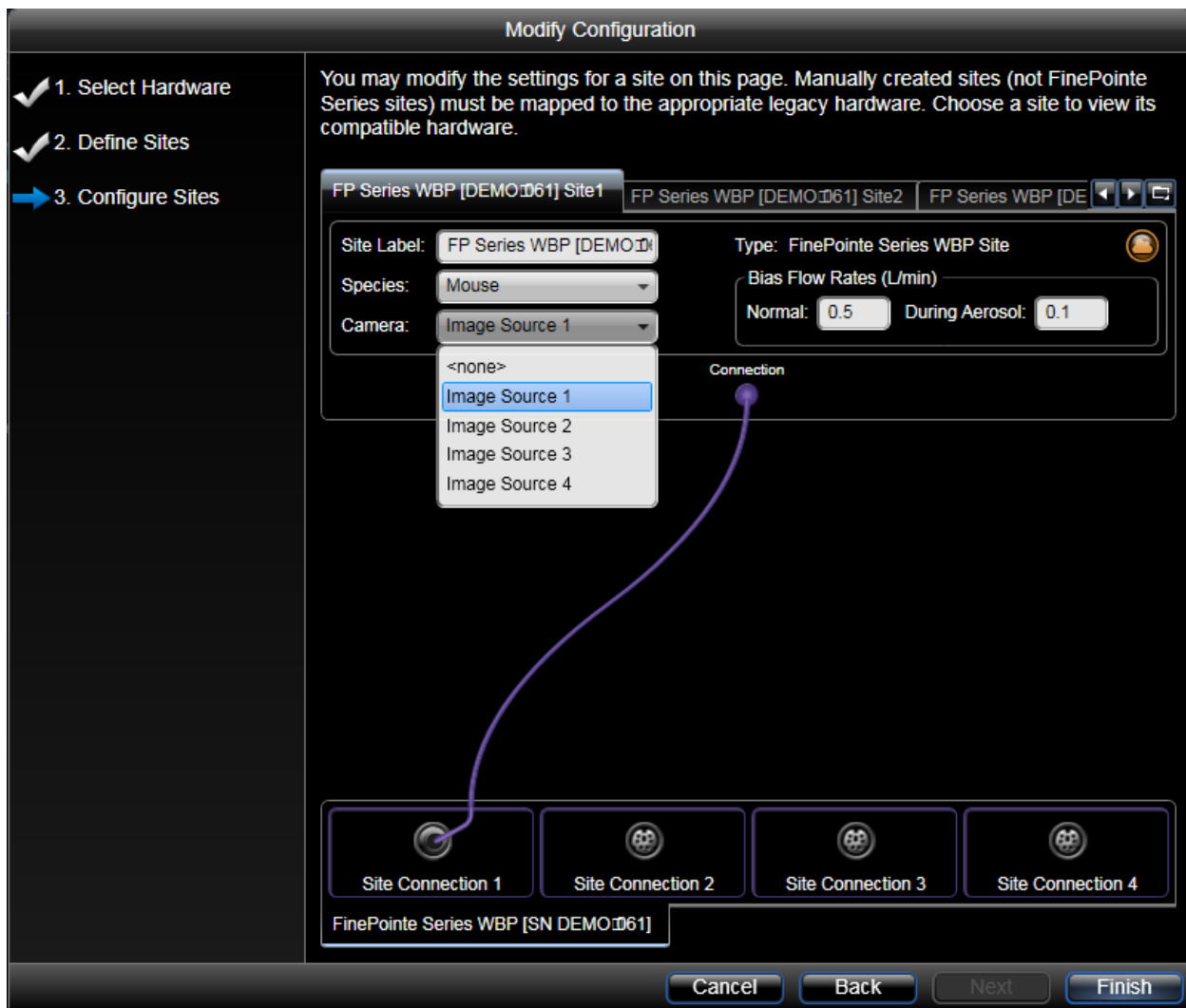


- The images from each camera will appear within the Record-IT! Media player. You may click the Image Sources button to re-enter the Image Sources – Settings window.



- You may now close the Record-IT! Media software

10. Within the FinePointe™ Control Panel > Hardware Configuration, you can now create or modify an existing Hardware Configuration (see relevant Application Guides for more information).
11. In the “Configure Sites” step of a Hardware Configuration, you will see a “Camera” dropdown menu where you can select a previously created camera with the names that you specified in the Image Source settings dialog.



12. Click on the different tabs for different hardware sites to assign a camera to each site. Note that you may assign the same camera to the different sites, if one camera is looking at two or more chambers.
13. You may close the FinePointe™ Control Panel and collect data as normal within FinePointe™ Review. If you begin data collection with a Hardware Configuration containing sites with associated cameras, the Record-IT! software will automatically open and begin collecting the video data.

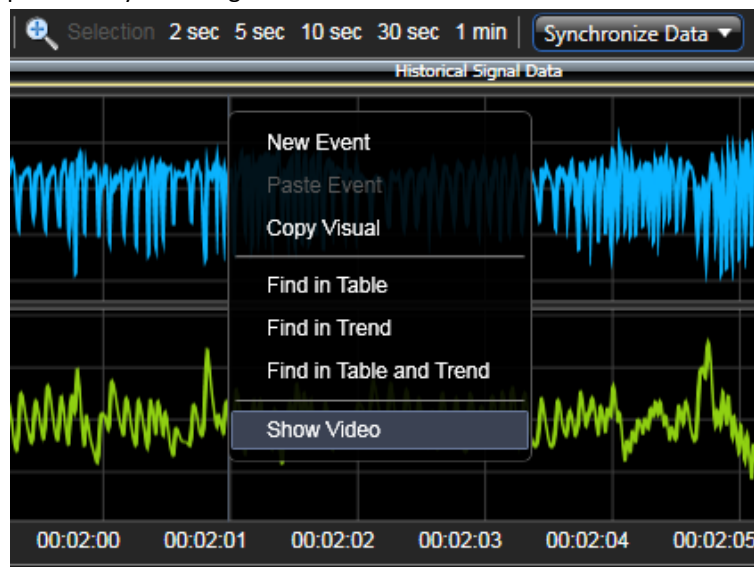


Important: Do not click on the Record-IT! software after it automatically opens as FinePointe™ is collecting data, as doing so may interrupt the synchronized data stream and prevent the video file from being properly created.

Viewing Video Data in FinePointe™

These are the steps for viewing the collected video synchronized with respiratory data within the FinePointe™ software.

1. Open a study containing acquisition sessions where video data was recorded in accordance with the above steps.
2. Open the acquisition run of the subject you'd like to view.
3. Right-click on any point in any of the signals and select Show Video



4. The Record-IT! software will open as a separate window, and the associated video will appear
5. Click the Play button to begin the video
6. As the video moves, note that the highlighted portion of the signals within FinePointe™ moves as well, indicating the section of the data that the video is showing



Video File Management

The video files collected from the Record-IT! Media software through a FinePointe™ acquisition are saved in a .mkv file format within the “C:\FinePointe Data\Video Data” folder. It is important that these files are **not renamed or relocated** (including being put into subfolders) or else FinePointe™ will not be able to find the video files during Analysis.

When Archiving a study within FinePointe™, (see the Archiving Data sections of relevant Application Guides), the associated video files will automatically be copied into the zipped archive folder as well, thereby removing the need for manual locating and moving of those files.

Contact Information

Contact Information We are available to help you with your questions and concerns. Should you hit a roadblock or need some additional training, please feel free to visit the DSI Support Center at <https://support.datasci.com> to find articles and helpful information in our knowledge base, Chat with an agent, or setup time to receive one-on-one consultation. We are happy to help!

DSI Technical Support

Email: Support@datasci.com