

Imaging Sensor Software Installation and Operation Manual

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Chapter 1 Overview

1.1 Manual Overview

This manual is intended to describe operation procedures of the sensor software. The description includes software installation, system login and logout, management of examination, examination initiation, image acquisition and image management, system settings and others.

1.2 Scope

This manual is applicable to the installation, operation and runtime environment of the sensor software.

1.3 Glossary

Software System: XVS2121 Imaging Sensor Software

System configuration: System Settings Management of XVS2121 Imaging Sensor Software

Chapter 2 Runtime Environment

2.1 Hardware Requirements

Central Processor: Intel Core i5 or higher

Internal Memory: 8GB or higher

Hard Disk: 1TB or higher

Display: 1280X1024

USB: One

Keyboard: One

Mouse: One

2.2 Software Requirement

Operating Software: Windows 7 SP1, windows 8, and windows 10

Runtime: .Net Framework 4.6 or higher

The software system supports antivirus software like Windows Defender and others. Detailed information is as the following table.

Software	Model	Full Version	Supplier	Runtime Environment
Windows Defender	/	/	Microsoft	Win8/Win10

360 Security	/	/	360 Total Security	Win7/Win8/Win10
360 Antivirus	/	/	360 Total Security	Win7/Win8/Win10
Kaspersky Antivirus	/	/	Kaspersky Lab	Win7/Win8/Win10
Kingsoft Antivirus	/	/	Kingsoft Corporation	Win7/Win8/Win10
Rising Antivirus	/	/	Beijing Rising Information Technology	Win7/Win8/Win10

- 1) Routine patch update will not affect the security and validity of the imaging sensor.
- 2) The user should update the security patches as indicated by the software.
When installing malicious software, the security software will pop up warning information.

2.2 Off-the-Shelf Software

Software	Model	Full Version	Supplier	Operation Environment
Win7, 8, 10	64 bit	/	Microsoft	General computer
Acquisition workstation	XVSensor	V1.0	Manufacturer	Net Framework 4.6 or higher, VC++ 2015

2.2 User Access

Users need authorization to access the acquisition software. Only authorized users can operate the different software functions and send order to the scanning system. The authorization to users includes login, operation and data security and etc.

2.3 User Login

1. The user needs correct account and password to log in the acquisition workstation software. See 4.2 System Login Management
2. The user roles include administrator, radiologist, technician. See 5.2 Account and Authorization Management

Chapter 3 Software Installation and System Initialization

3.1 Software Installation

Please click and execute the XVSensor_EN_V2.0.0.1.exe file to install the software. Procedures are as follows:

Step 1: Double click XVSensor_EN_V2.0.0.1.exe file to initiate installation.

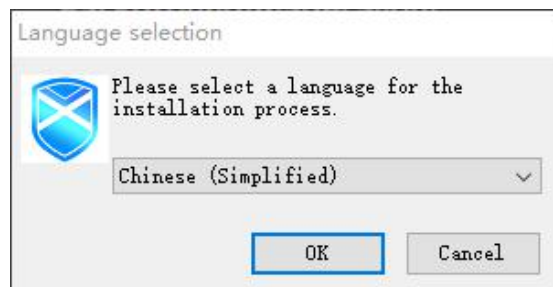


Fig 3-1 Language Selection

Step 2: Proceed to select your preferred language. If you select English and then click “OK”, you will proceed to the Installation Guidance window. Please refer to Fig.3.2.

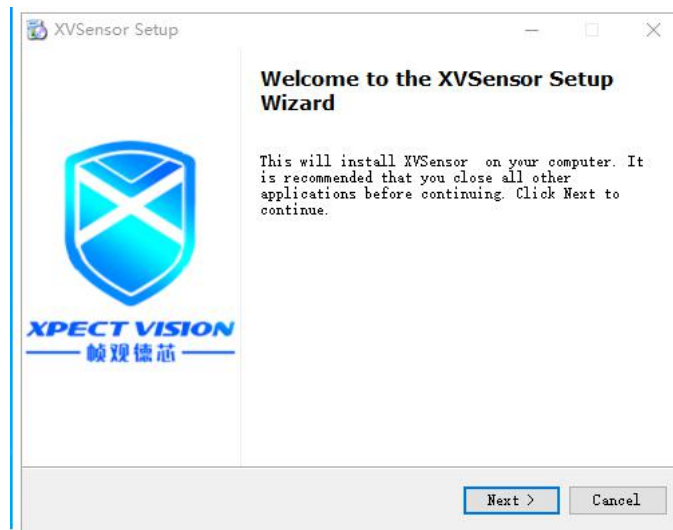


Fig 3-2 Installation Guidance

Step 3: click "Next" to Authorization agreement window, then click "Accept" to proceed with installation. Please refer to Fig 3-3.

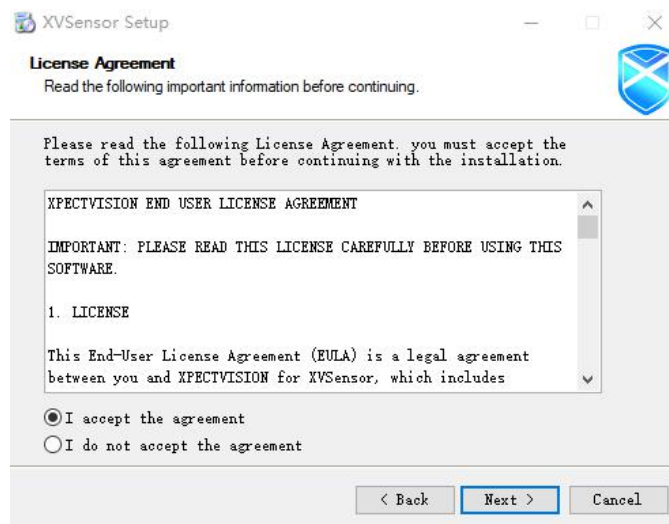


Fig 3-3 Software Authorization Agreement

Step 4: click "Next" to the User Information window to enter user information and serial number. You can proceed with default username and organization, and enter designated serial number to proceed with installation. Please refer to Fig 3-4.

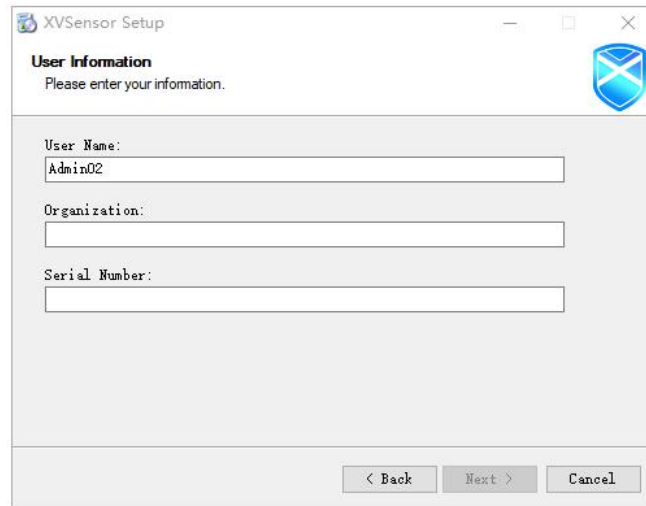


Fig 3-4 Software Authorization Information

Step 5: click "Next" to select path folder for installation. You can proceed with the default path. Please refer to Fig 3-5.

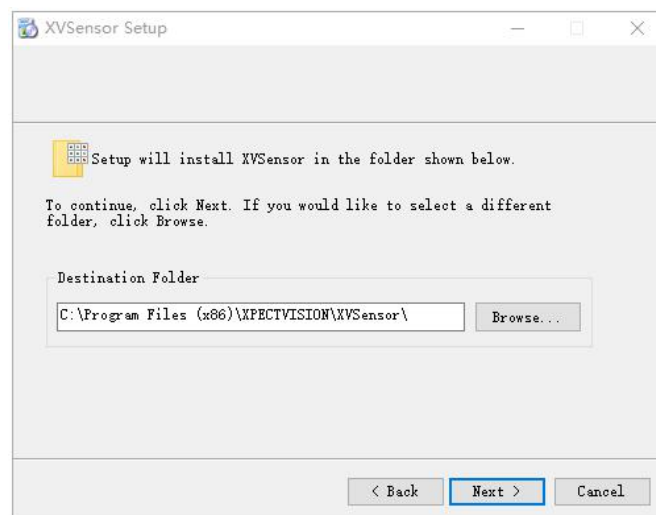


Fig 3-5 Installation Path Selection

Step 6: click "Next" to create desktop icon and menu shortcut. You are allowed to proceed with default options. Please see Fig 3-6.

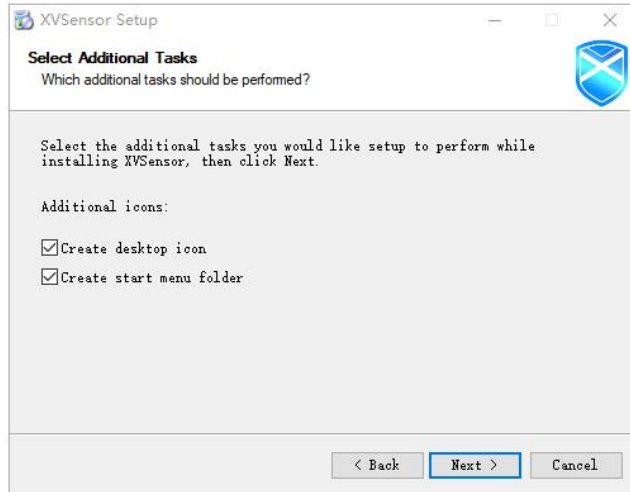


Fig 3-6 Icon and shortcut

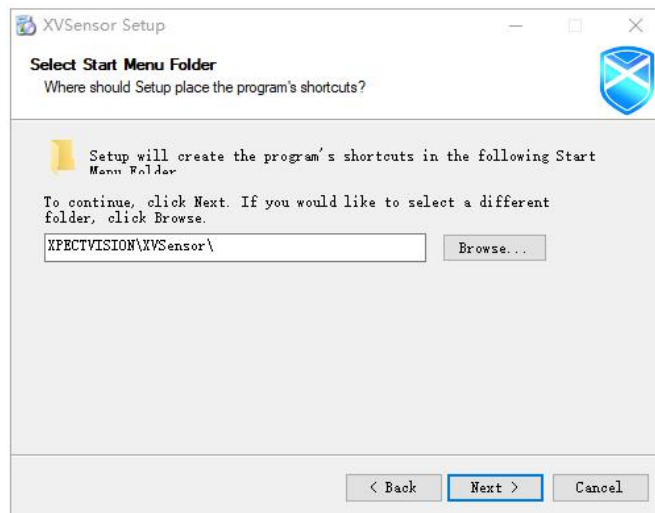


Fig 3-7 Shortcut Location

Step 7: click "Next" to select the location of the shortcut. You can proceed with the default one. Please refer to Fig 3-7.

Step 8: click "Next" to the installation process. Please refer to Fig 3-8. Please click "Done" upon completion to finish the installation process.

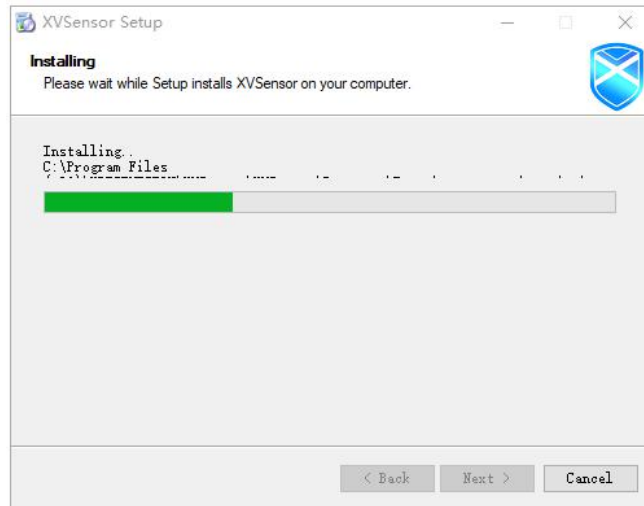


Fig 3-8 Installation Process

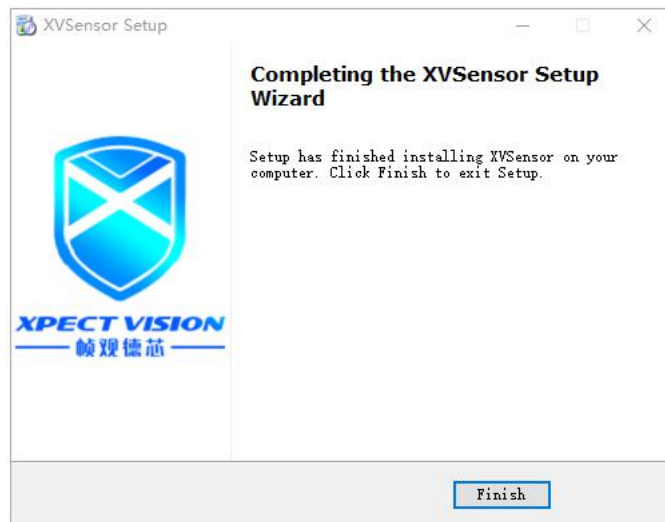


Fig 3-9 Installation Completion

After completing the software installation, add-ons will be installed based on the actual needs. For the computers that don't need to install add-ons, jump directly to step 10. For those add-ons are needed, choose the default procedure and click next. Fig 3-10 to 3-19 are about add-ons installation.

Step 9: Add-ons installation

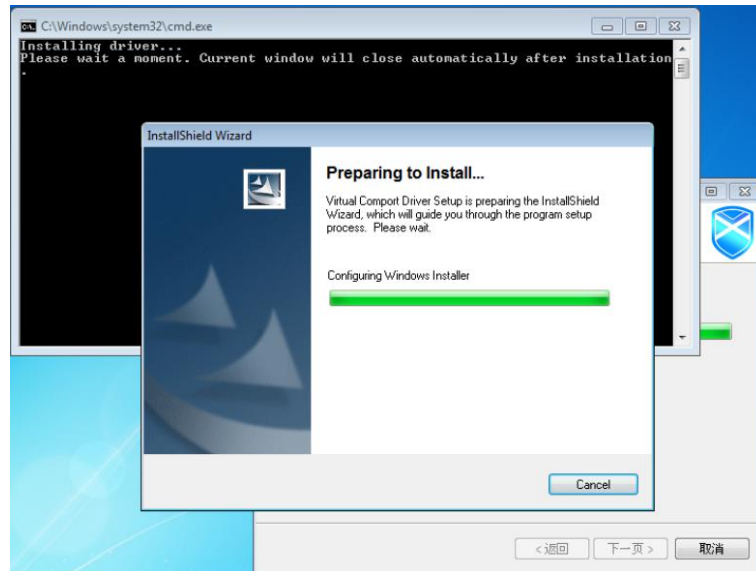


Fig 3-10 Add-ons installation

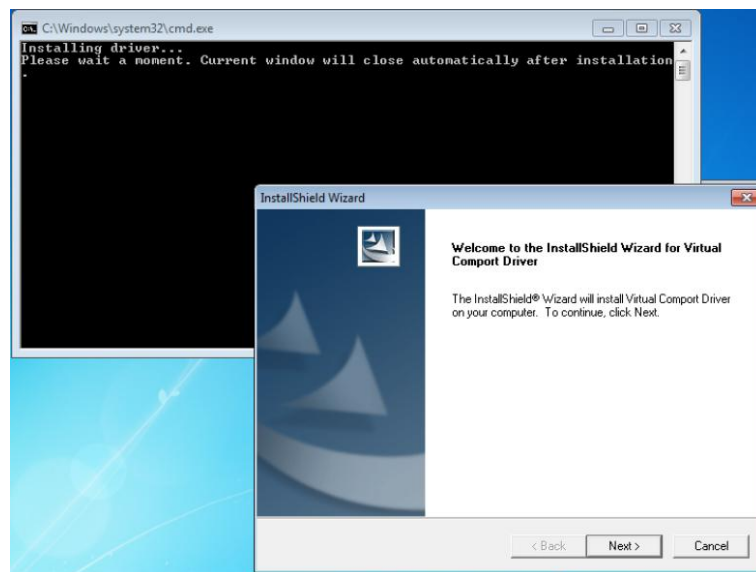


Fig 3-11 Add-ons installation

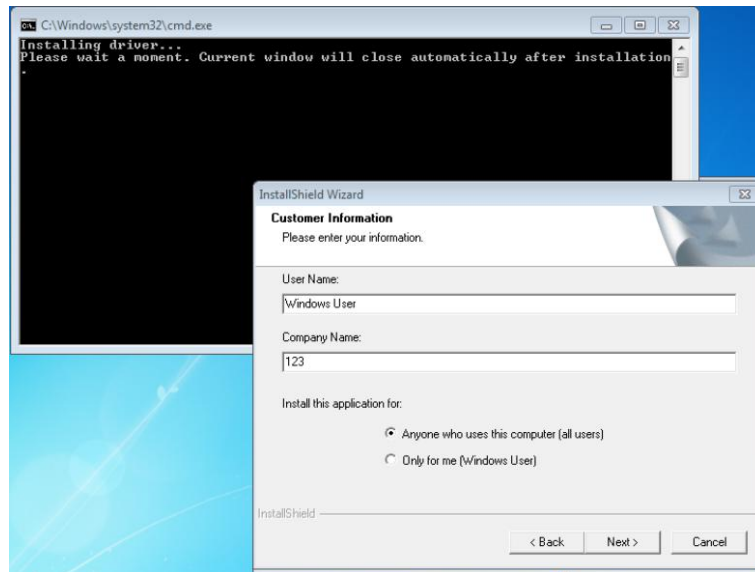


Fig 3-12 Add-ons installation

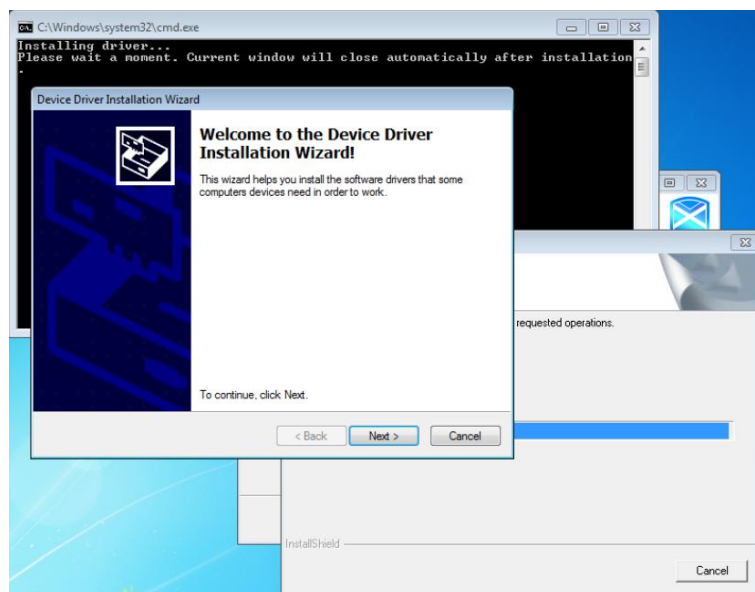


Fig 3-13 Add-ons installation

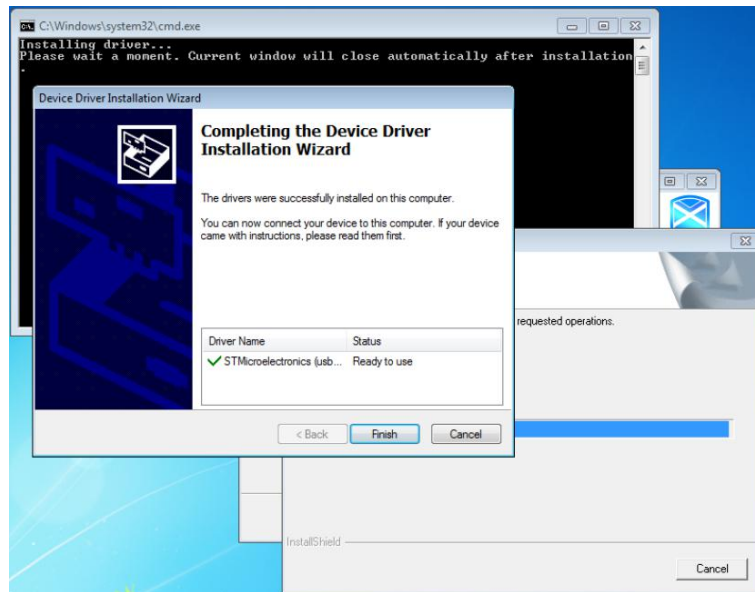


Fig 3-14 Add-ons installation

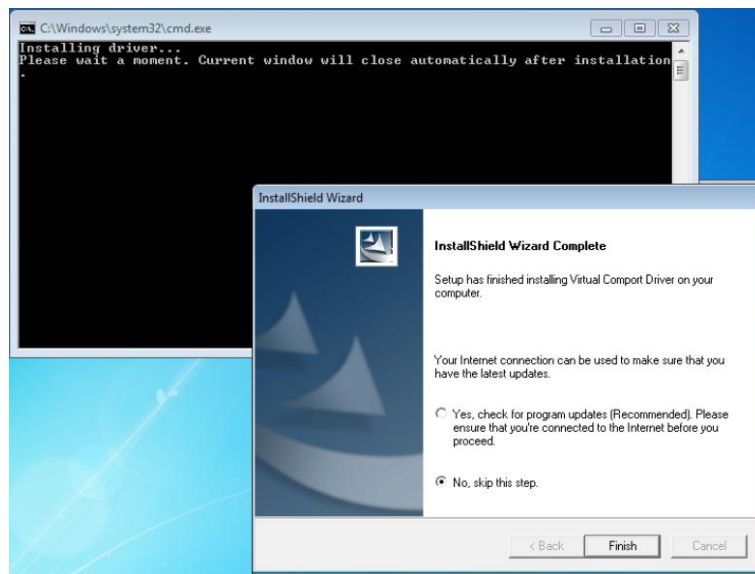


Fig 3-15 Add-ons installation

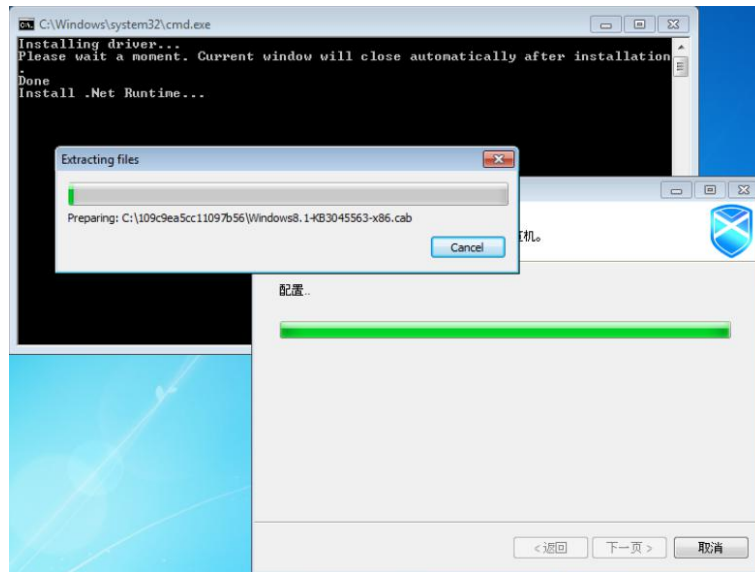


Fig 3-16 Add-ons installation

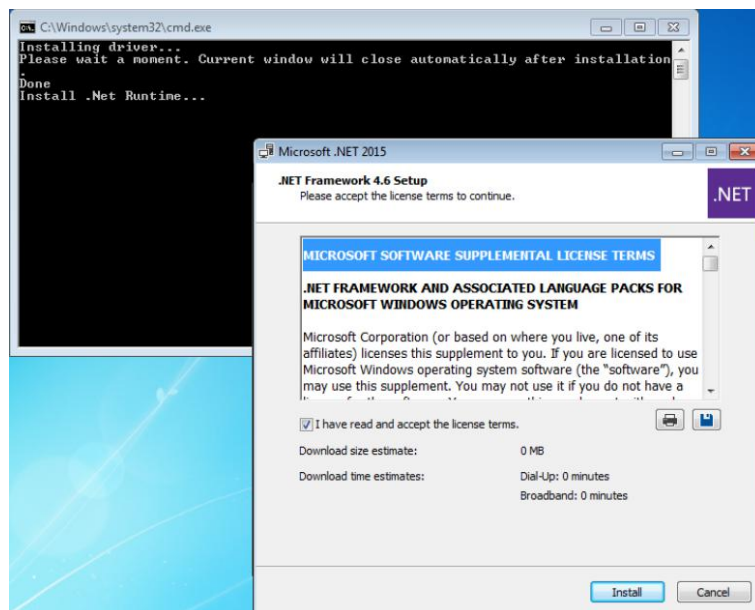


Fig 3-17 Add-ons installation

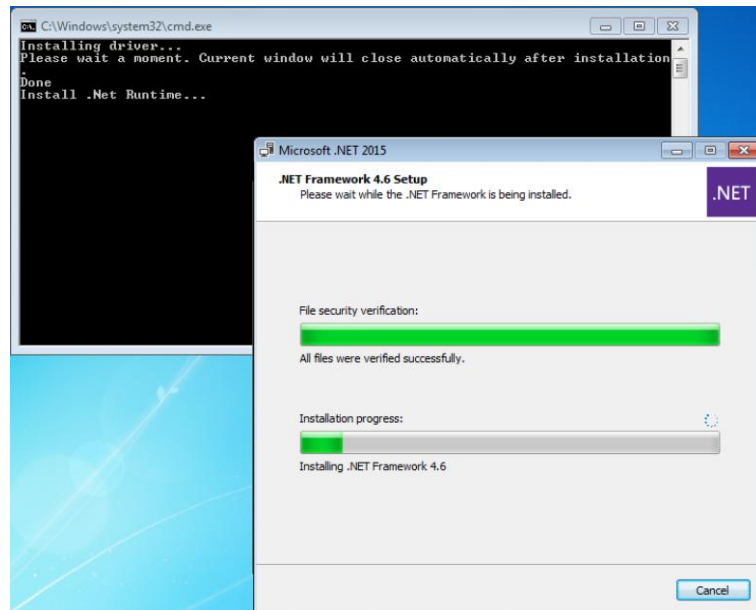


Fig 3-18 Add-ons installation

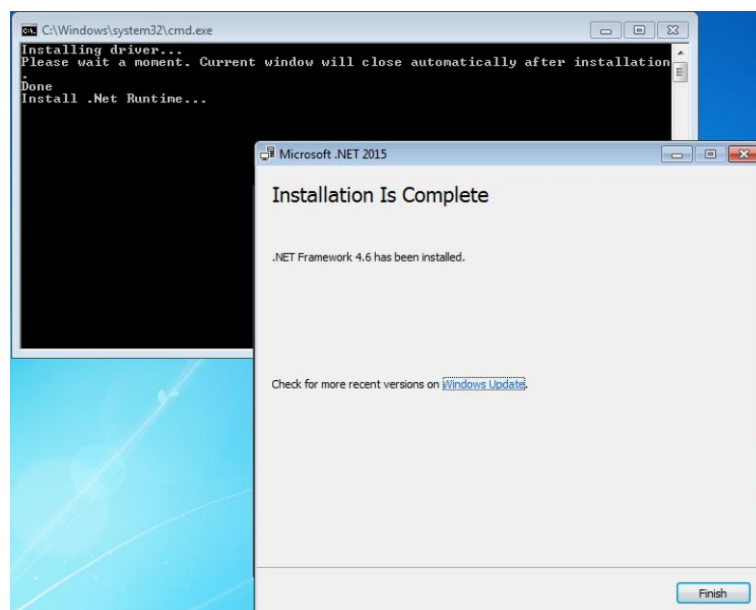


Fig 3-19 Add-ons installation

Step 10: After completing installation, the installation complete screen displays. See Fig. 3-19. You can choose to close the installation directly or you can close installation and start the software.



Note...

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1. Upon completion, the software will automatically check if the computer needs to install related add-ons.
 2. Installation has to be carried out by system admin user.
 3. Operation has to be made by users authorized by the admin.
 4. The admin for the software operation should have read-write permission to the software directory and its subdirectory.
-

3.2 System Initialization

Click on the "XVSensor" icon to initiate the software.

Chapter 4 Software User Manual

The software system consists of six segments: system login and account management, examination management, image acquisition, image reading management and system configuration. This manual goes through these segments respectively. Image recalibration and system settings are covered in "System configuration". Please refer to 3.1 for system initiation.

4.1 Examination Status

The software system workflow represents a specific check of the relevant item status, which include the execution status, the protected status, and so on.

The execution status refers to whether a registered examination has started the image acquisition process, whether it has been exposed and completed image acquisition. Please refer to Table 4-1 for execution status.

Status	Description
Not Started	The subject has been registered but the examination has not started
Completed	the examination has been completed and images have been acquired
Suspended	the examination had started but then suspended

Table 4-1 Execution Status

Checking protected status means checking that the item is locked and cannot be deleted. Please refer to Table 4-2 check for specific protected status.

Status	Description
Locked	Displayed as "Yes".This examination is currently locked and hence cannot be deleted
Unlocked	Displayed as "No".This examination is currently not in protective status and hence can be deleted

Table 4-2 Protected Status

4.2 System Login Management

System login management includes two segments on system login and exit. Only authorized users through legal login have the permission to the body window of the software and use the functions of the system in accordance with their respective authorizations. The system provides the login and exit windows to handle the user's login and exit operations respectively. Please refer to Fig 4-1for system login and Fig 4-2 for system exit.



Fig 4-1 System login

After the system starts, enter the correct username and password to log in the system.



Note...

1. The admin account is the only account to set up new account;
2. Three consecutive login failures results in a 10 seconds freeze on all logins. System reboot will not cancel or speed up the freeze;
3. This system has two default accounts, the admin account and the tech account. Both accounts have “xvs2121 ” as the default password. It is strongly recommended to change the passwords upon system installation.

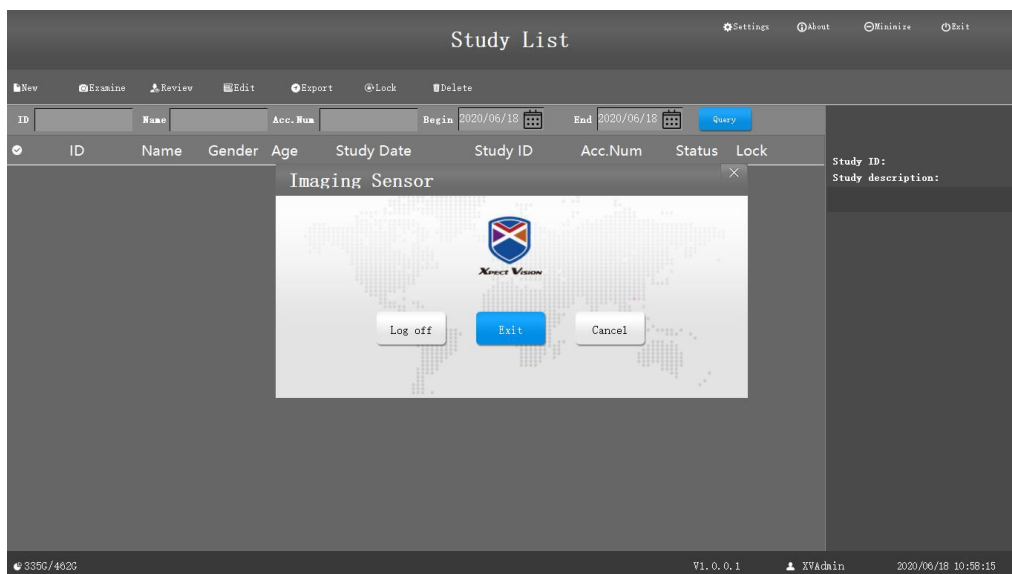


Fig 4-2 System Logoff

Upon login, you can click the “exit” button on top of the examination checklist for exit options. An option window will pop up with three options: “Logoff”, “Exit”, “Cancel”. You can only execute the exit function if the examination checklist is displayed.

4.3 System Initialization

Upon successful login, the system initializes the connection of the sensor so that the sensor is ready for deployment. The system provides a window to display the progress of the system initialization. Please refer to Fig 4-3.

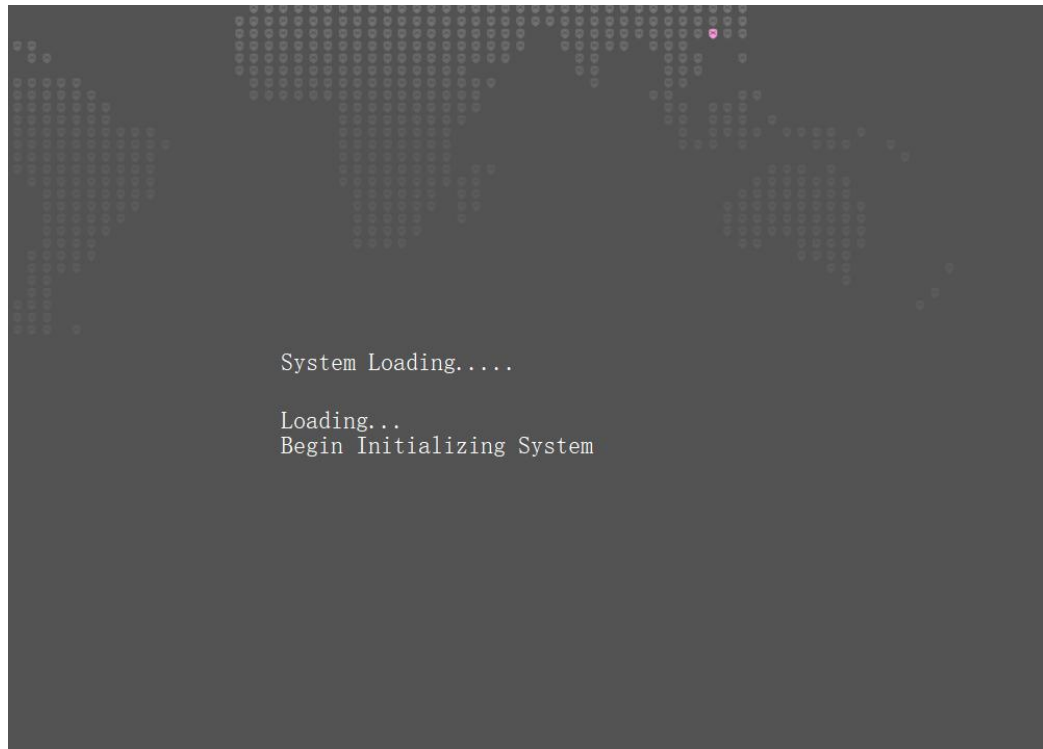


Fig 4-3 System Initialization

4.4 Examination Management

Examination management refers to the management of examinations undergone by registered subject, including examination query/view, registration, editing, deletion, protection, export, examination initiation and other functions. The system provides buttons for these functions through the operation toolbar.

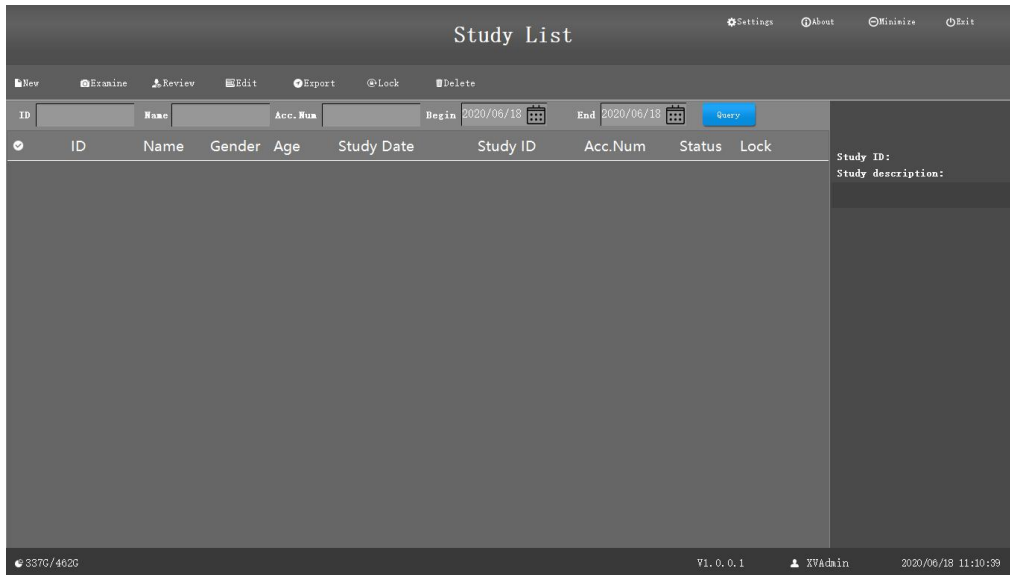

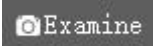








Fig 4-4 Operation Toolbar

The designated Area“A” of this window is the operation toolbar. Please refer to table 4-3 for the list of buttons.

Description:

T4-3 Description of the Operation toolbar

Action Items	Description
	Open an examination window for a registered subject
	Open an examination window with information of the selected subjects.
	Open a reading window to view a selected exposed image
	Open a window to export selected image

 Export	Click to open a window to export selected image
 Lock  Unlock	Lock an examination Relieve a protected examination of its locked status
 Delete	Delete the selected examination

The designated area "B" of the window is the Examination List area. It displays the Examination List and allows to operate on the listed examinations. You can search by ID, name, visit number, start date and end date. Please refer to Table 4-4 for the descriptions of the action items presented.




Action Items	Description
 Query	To search with selected criteria.
	It indicates that the current examination is selected and is set to be unselect when clicked. At the head of the column, it indicates that all items have been selected and can be undone when clicked.
	It Indicates that the current examination is not selected and is set to be selected when clicked. At the head of the column, it indicates that all items are unselected and can be selected when clicked.

Table4-4 Description of the action items of the Study List

The designated Area "C" is the reading window of the image. It displays the outline figures and examination descriptions of the selected exposed images.

When multiple Examinations are selected, the top one is presented first.



Note...

"Lock" and "Unlock" are switch menu options. When the selected examination is in a protected status, it would be displayed as "Unlock". And vice versa.

4.4.1 View and Search Examination

As Fig 4-4 illustrates, the system displays Examinations of all subjects item by item in the Area B. The displayed information of an examination are examination number, ID, visit number, name, gender, age, examination date, execution status and lock status.

After entering the ID, name or visit number in the search bar of the the Area B and selecting the start and end date intervals, click the search button to display the items in the Examination List. The system will have prompt notification if no results are matched. The search results are shown in Fig. 4-5.

Since ambiguous search are conducted on ID, name and visit number, these conditions could be left blank. Final results are displayed with the time interval as comprehensive search condition.



Note...

All examinations of a given day will be displayed when users login the system and open the examination window for the first time.

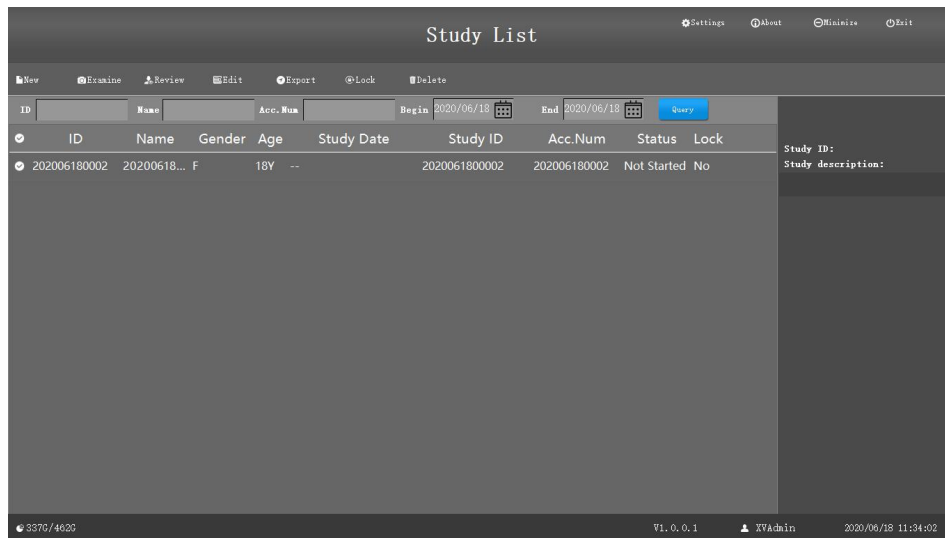


Fig 4-5 Examination Search

4.4.2 Registration

Click "New" of the menu toolbar in the Area A to open the examination window to create a new examination as illustrated in Fig 4-6.

Registration entries include name, gender, age, date of birth, visit number, ID, examination number, mobile number, and examination description. Enter appropriate registration information, then click the "Save" or "Examine" button to complete the examination registration.

Click "Examine" to create an examination and open a new examination window to prepare for executing exposing.

Click "Reset" to restore all inputs to default status.

Click "Close" to cancel the registration and close the window.



Note...

1. Inputs with the "*" mark can not be left blank. the rest can be left blank or default;
2. Examination number, visit number and ID are generated by the system.They can be edited manually.

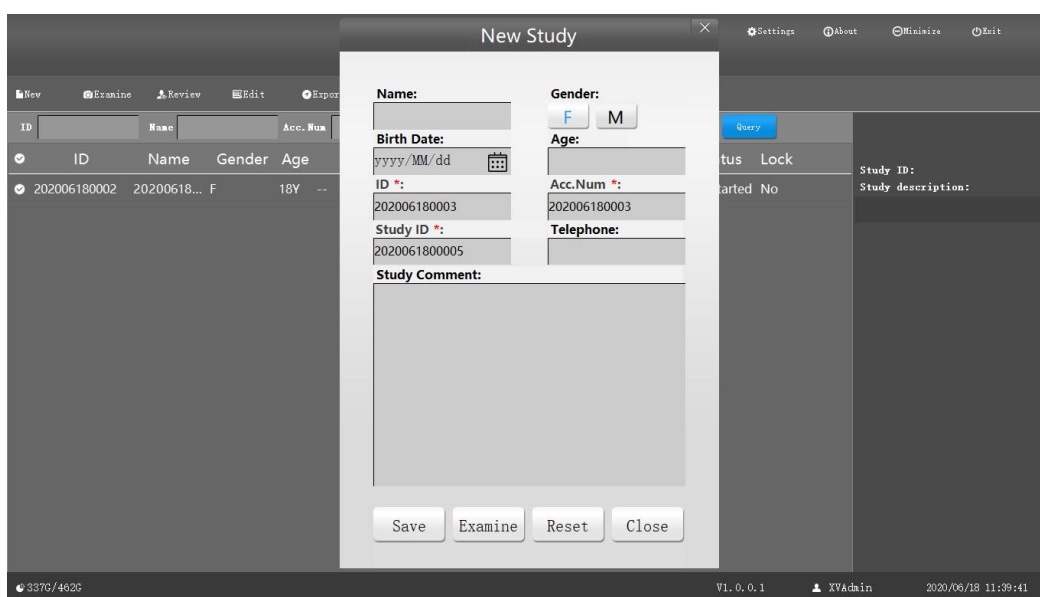


Fig 4-6 Registration

4.4.3 Case Editing

Registered subject can be edited. Editable entries are the same as those during registration. Same rules of registration also apply in editing.

Select the items for edit in the Examination List in the Area B, and then click "Edit" to open the edit window as illustrated in Fig 4-7.

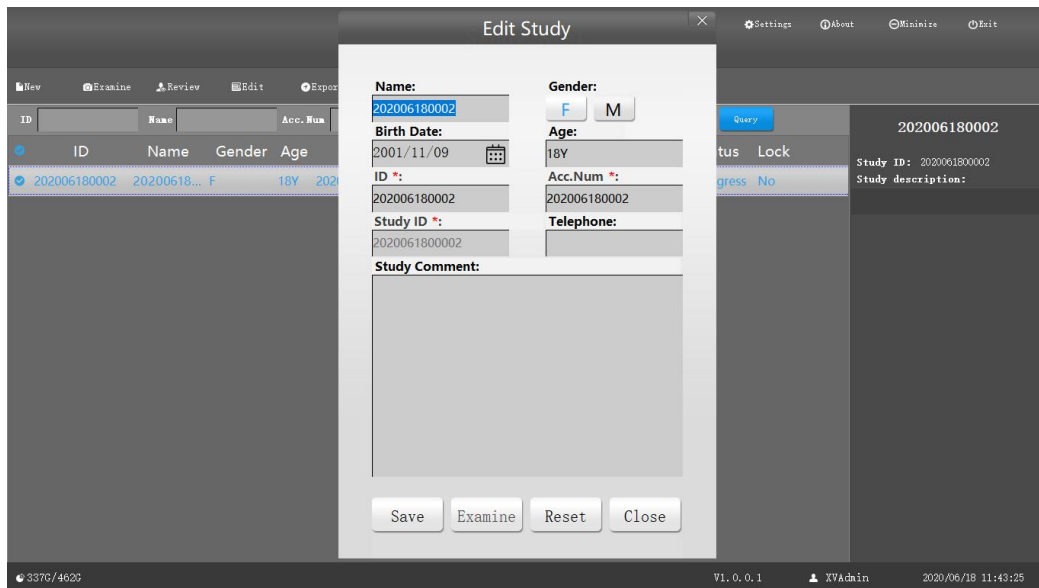


Fig 4-7 Case Editing

Click "Save" to save all changes.

Click "Reset" to restore all inputs to default status.

Click "Close" to cancel the edit and close the window.



Note...

1. Any edit in name, gender, date of birth and ID will be comprehensive. Data in all examinations of the particular subject including the image files will be corrected;
2. Edit in visit number, examination number and examination description are only for the edited examination;

4.4.4 Lock and Delete

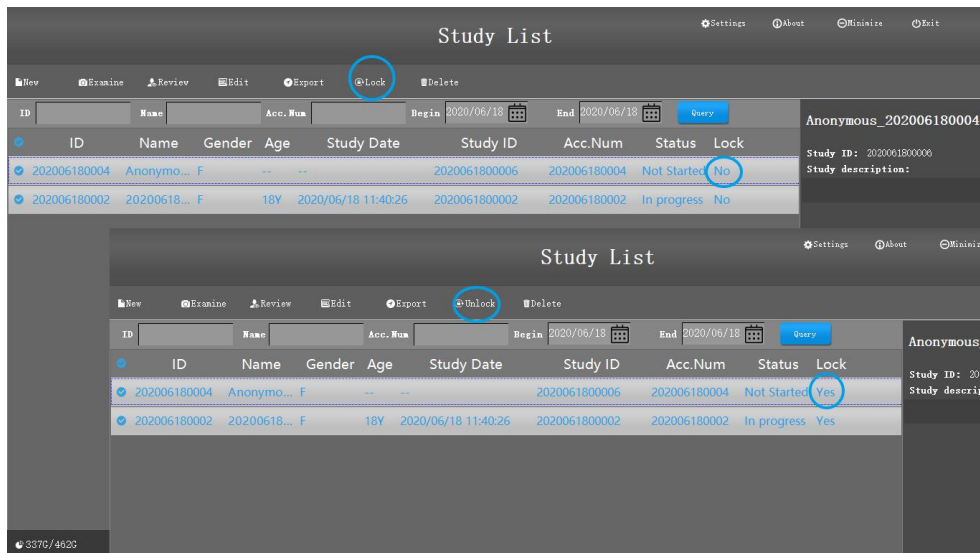


Fig 4-8 Locked examination

Click "Lock" in the menu toolbar to lock the selected examination from unwanted deletion. The "Lock" button will be displayed as "Unlock" if the listed examination are currently in locked status. For locked examination, the "Lock" column in the examination list will display "Yes" as illustrated in Fig 4-8. Click "Unlock" again to remove the protection of these examinations.

Examination can be deleted. Deleted examination are no longer listed in the Study List and irrecoverable. Click "Delete" in the menu toolbar to delete selected examination. Deletion can not be proceeded if there is any locked examination in the selection.

4.4.5 Export Images

Acquired images of selected examinations can be exported in bulk to designated format for external use. Click "Export" in the menu toolbar to open the export window. Images can be exported in DCM, JPG, DICOM, DIR format. As illustrated in Fig 4-9, Anonymous DCM file are supported. And anonymity, corner label and image size can be adjusted for JPG export.

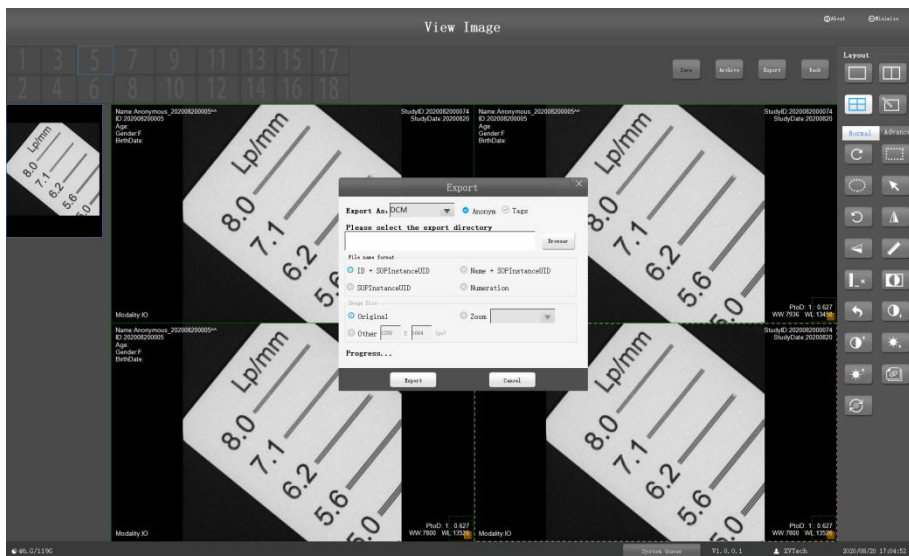


Fig 4-9 Export Image

4.4.6 Archive the Images

Click the Archive button, and choose the network node for the archiving. See Fig. 4-10.

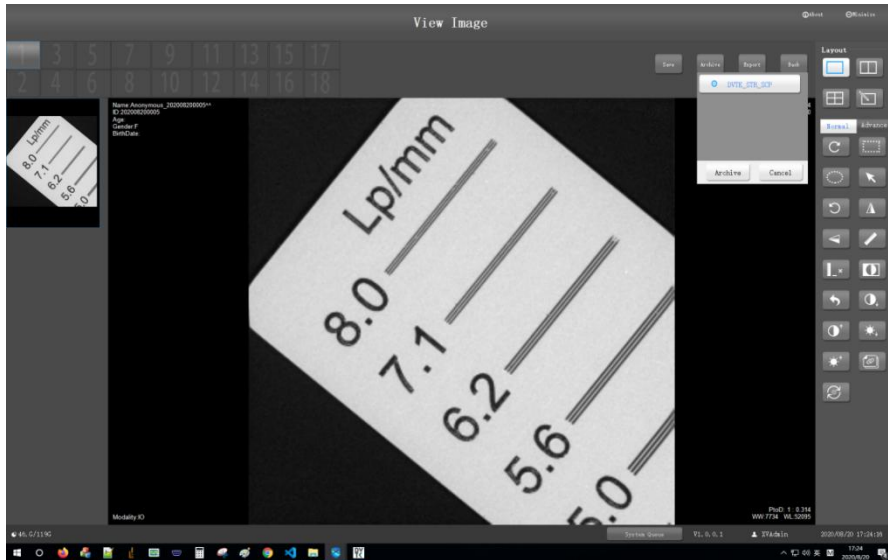


Fig. 4-10 Archive network node selection

Click the Archive button and after the progress bar finishes, click Complete.

See Fig 4-11.

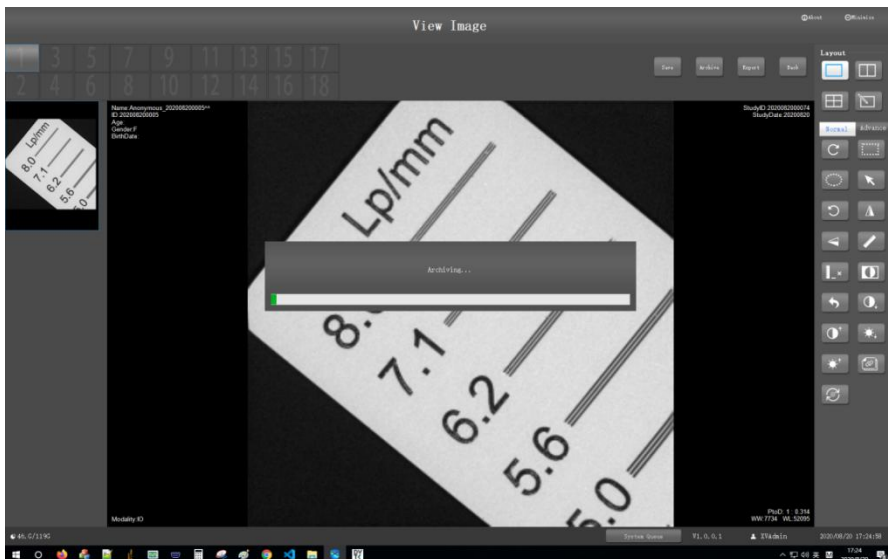


Fig. 4-11 The progress bar

Check the image archiving status through the System Que. Click the System Que toolbar and click the Query button, then the archiving status will display. See Fig 4-12.

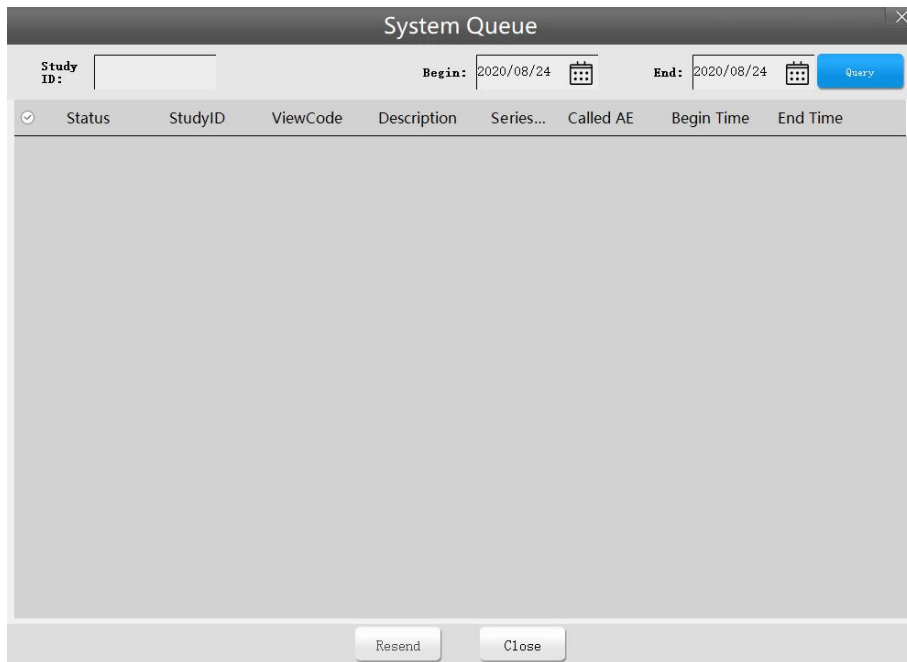


Fig. 4-12 Image archiving status

4.4.7 Examination Initiation

Examination Initiation refers to opening an examination to enter the execution window for exposure process. Double click an item in the Examination List to enter the execution window, as illustrated in Fig 4-13.

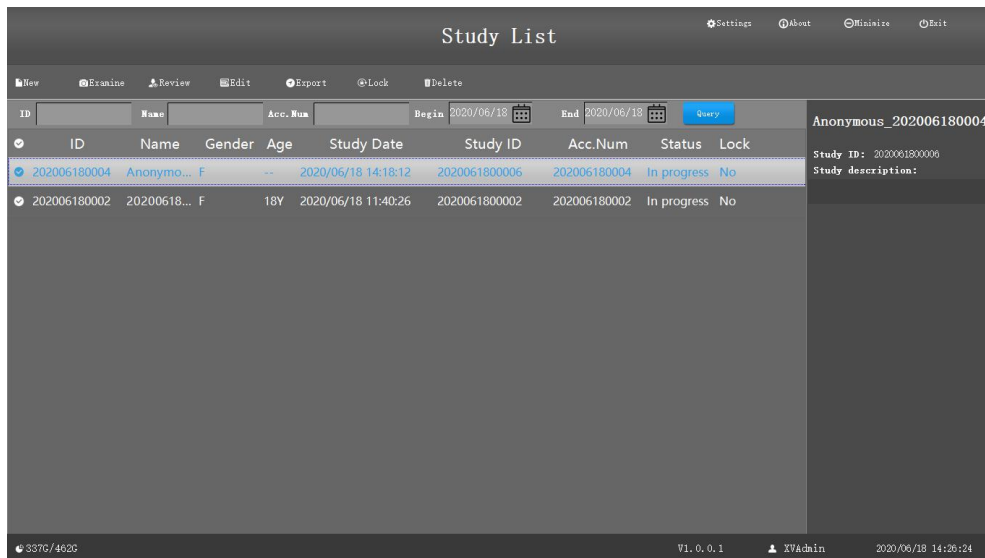


Fig 4-13 Examination initiation



Note...

1. Double click the examination status of a completed examination to open the reading window;

4.5 Examination Exposure





Examination exposure refers to the process of selecting the type of preferred image and the position of the sensor for the exposure in the execution panel. The process is illustrated in Fig 4-14.



Fig 4-14 Examination Exposure

The Area A displays relevant subject and examination information. The Area B are the management zones of the examination. Action buttons will be displayed when the mouse is moved onto each exposed images. The description of action buttons in the Area B are stated in Table 4-5.

Table 4-5 Examination Exposure Management

Action Items	Description
	View this image in a reading window
	Copy the image to proceed to exposure
	Delete the image
	Edit the image. More information on image edit and reset in section 4.5.5

The Area C is the exposure management zone with two components: system status and exposure control.

The system status section uses different color backgrounds to illustrate three statuses of exposure: standby, exposing and malfunction.

- 1) **Red** The system is malfunctioned by abnormal settings. Exposure can not be initiated;
- 2) **Grey** The system is on standby while exposure can not be initiated ;
- 3) **Yellow** The system is in progress of exposure and image acquisition;

Exposure control refers to the control of the initiation of exposure and examination exit.






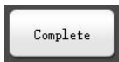
Note...

-
1. *When one enters the execution panel, the system will adjust the default system status to standby malfunction;*
 2. *Operator has to manually start enabling exposure for the exposure process. After one exposure is completed, the system is automatically set to the grey mode. Please see section 4.5.1 for more description.*
-

4.5.1 Enabling Exposure Control

Enabling exposure control indicates if the system is ready for executing exposure. Exposure control has to be activated manually. As illustrated in Table 4-6, click "Initiate" to start Enabling Exposure.

Table 4-6 Action items in enabling exposure

Action Items	Description
	Start enabling exposure.
	Stop enabling exposure.
	Exit the examination panel.
	Conclude the examination, and allow to set the execution status of the current examination

Once enabling exposure is successful, the system status zone will be displayed as illustrated in Fig 4-15;



Fig 4-15 Status of Enabling Exposure



Note...

*Once exposure is enabled, no operation can be made in
the panel until the image acquisition is completed.*

4.5.2 Image Settings

The system allows the image settings of the exposed images to be edited. Click on the "Edit" button of the preview section of the image to open the edit panel.

Click "Confirm" button to save all the edit. Click "Cancel" or "X" on the top-right corner to cancel the action.

4.5.3 Image Exposure

When the imaging view is selected and the system status is normal, click the "Start" button of the Enabling Exposure zone to activate the sensor to ready status. The sensor then receives x-ray and acquire an image to complete one exposure as illustrated in Fig 4-16.

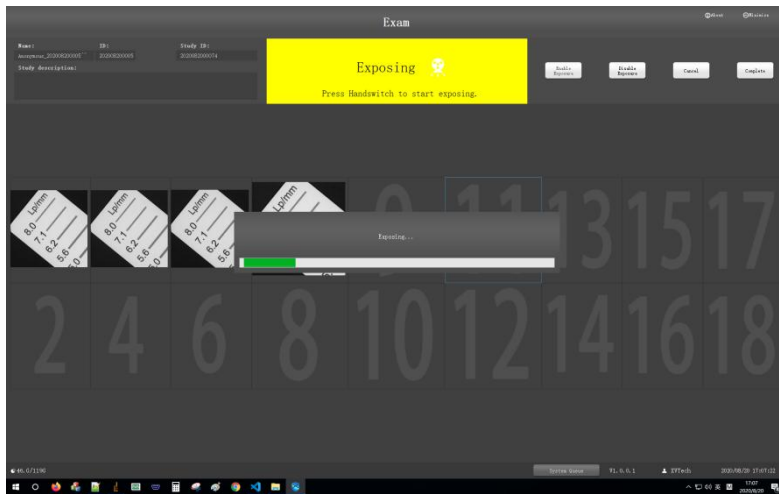


Fig 4-16 Acquiring Exposure Image

4.5.4 Exit Examination

Exit examination refers to exit the current examination panel and end the current exposure procedure.

Click the "Complete" button of the examination panel to exit the current examination. The system will check whether exposure of all the views are completed. If all exposures are completed, the system will exit to the Examination List panel. If some images are not yet exposed, the pop up notification will allow users to complete the examination, or to change the examination status to suspended, or to cancel the exit and proceed with exposure examination as illustrated in Fig 4-17.

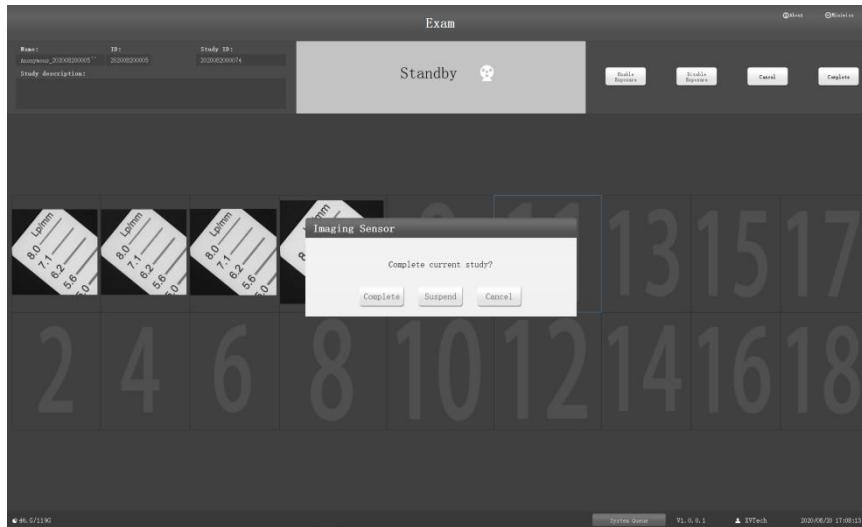


Fig 4-17 Exit Examination

4.6 Image Management

Image management refers to actions such as viewing, processing, saving, deletion, and export of acquired images.

4.6.1 Image Viewing

Image viewing provides a range of actions as illustrated Fig 4-18.

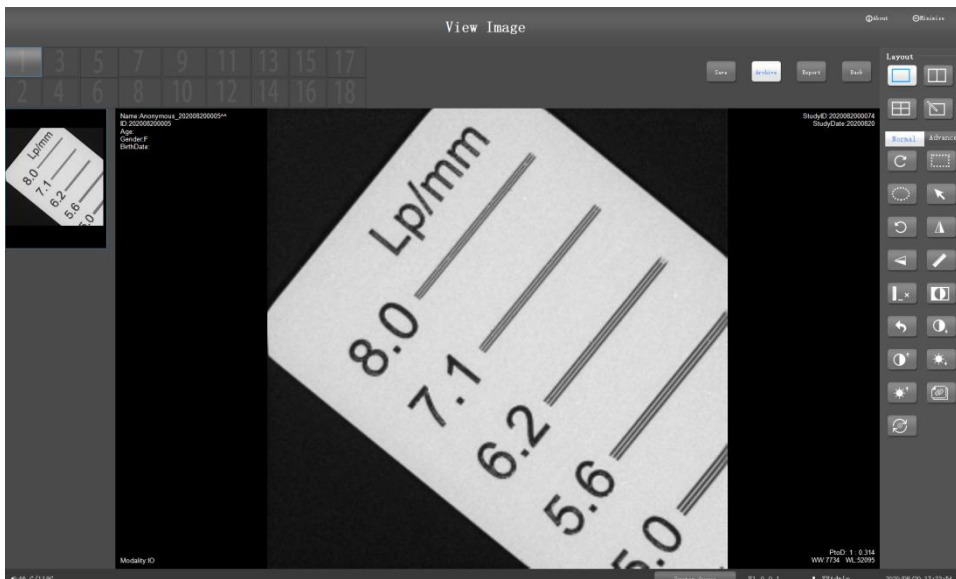







Fig 4-18 Image viewing panel

The Area A is the guidance zone to display action items such as image view selection election, saving, export and undo. Detailed descriptions are listed below:

Table 4-7 Actionable items in image viewing

Action Items	Description
	Return to the previous panel.
	Export the image displayed in the Area C.
	Save the edit. Only applicable in 1X1 layout setting.
	Image view Selection. Acquired image of selected position will be displayed in the Area B.
	Click to archive the selected images

The Area B is the preview section displaying all the acquired images of the current examination. One can drag images from the preview section to view the image in the designated cell.











The Area C is the viewing section. It supports various layout, corner label, multiple selections, bulk export, and images dragging across cells. It does not support scroll display. When each cell displays image, there will be two nested squares at the bottom right corner. Click the inner one once to select the corresponding image, and click twice to unselect. Press and hold the left button when the mouse is over outer square to drag image across the cells. The viewing section also allows various mouse actions. Please refer to Table 4-8 for details.












Table 4-8 Mouse Actions in image viewing section

Action Items	Description
Press and hold left button	Drag image in any direction.
Roll horizontally	Zoom in and out.
Double click left button	Switch images in sizes that are maximized or best fit to the panel. Note: the previous zoom in and out action will not be saved.
Press and hold right button	<ol style="list-style-type: none"> 1. Move vertically to adjust brightness; 2. Move horizontally to adjust contrast; 3. Move both vertically and horizontally to adjust brightness and contrast accordingly.
Press right button	Click once to open histogram at the bottom the image and make corner label disappear. One can drag histogram to adjust window size and position. Click again to close histogram and display corner label.

Area D is the operation zone with descriptions in Table 4-9.

Table 4-9 Image viewing operation options

Action Items	Description
	1X1 layout viewing.
	2X1 layout viewing. Highlight status indicates current status.
	2X2 layout viewing.
	Customized layout. Click to view in customized panel.
	Rotate 90 degrees anti-clockwise.
	Rotate 90 degrees clockwise.
	Flip 90 degrees horizontally.
	Flip 90 degrees vertically.
	Change the mouse to rectangle mode. Drag the mouse with pressing and holding the left button to draw rectangle. This mode remains as long as this button is on.
	Change the mouse to oval mode. Drag the mouse with pressing and holding the left button to draw oval. This mode remains as long as this button is on.

	Change the mouse to line measuring mode. Press and hold the left button to draw and measure. This mode remains as long as this button is on
	Delete all measuring line objects
	Change the mouse to small hand mode. This mode remains as long as this button is on.
	Invert the image while keeping all its status
	Restore image to its loading status
	Reduce contrast.
	Increase contrast
	Reduce brightness.
	Increase Brightness.
	Reset window size and position to initial loading status.
	Adjust all images in the viewing zone to a same brightness and contrast. Click once to maintain this adjustment, click twice to undo.



Note...

1. The default layout is 1X1. Click the corresponding layout view or customized layout for a different view;
2. No image will be displayed when entering the viewing zone from the Examination List or the execution panel. Proceed to image operation by dragging images from the preview sections to the designated cell.

4.6.2 Image Export

Select files for export in designated format as shown in Fig 4-19.

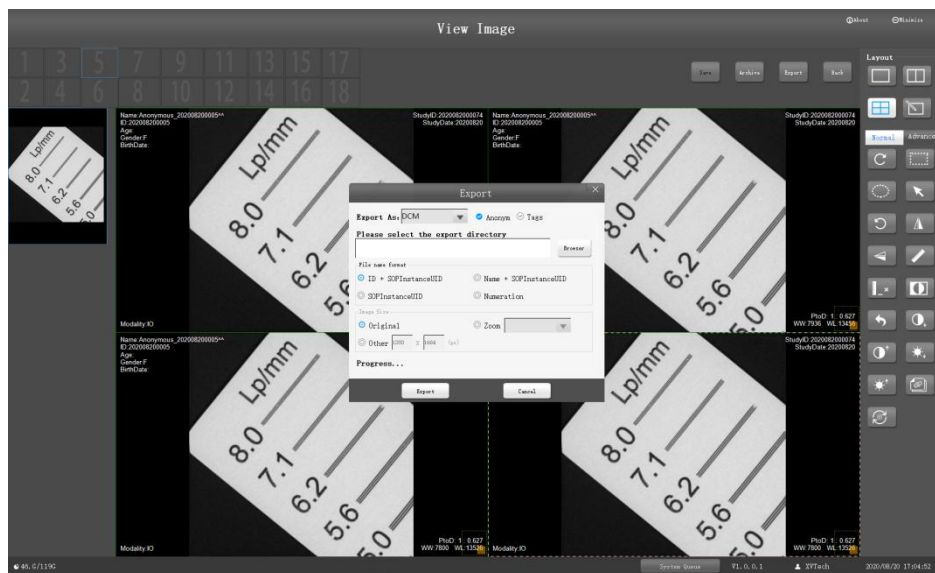


Fig 4-19 Image Export Window

4.7 System Menu and Settings Toolbar

This system menu displays the system level status and toolbar. The system menu and the window label are displayed in this The Area As shown in Fig 4-20.



Fig 4-20 System Menu Toolbar

The "Study List" in the Figure is the window identification, indicating the location of the current workflow. It tracks the changes of the workflow, including Study List, Examination exposure, image viewing, image processing, image printing, and etc.

Click "Exit" to exit the system. Please refer to section 4.2.

Click "System Settings" to open the system configuration tool.






Click "About" to open the system user manual and guidance.

The system status bar is situated on the bottom of the software panel. It includes system status, login status, system queue entrance as illustrated in Fig 4-21 and described in Table 4-10.



Fig 4-21 System Status Bar

Tab 4-10 System status Bar

Action Items	Description
	Displays the size of available local disk
	Displays the current version of the system
	Displays the current username
	Displays the current system time
	Displays the status of image exporting and archiving

Chapter 5 System Configuration Management

5.1 System Admin Login

Click "System Settings" at the top right corner of the Study List panel to open the system configuration tool. The login window will first pop up as shown in Fig 5-1.

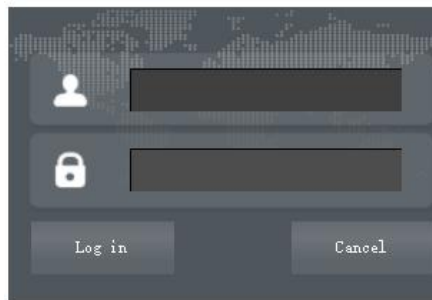


Fig 5-1 Admin Login

Only system admin user has access to this configuration tool. Upon login, admin user can conduct following actions.

5.2 Account and Authorization Management

Account and authorization management refers to the management of users login and users' authorization to restricted actions, including user management, role management and authorization management.

Fig 5-2 illustrates account management. Admin user can browse all login history of a registered user, create user, edit users, delete users and etc.

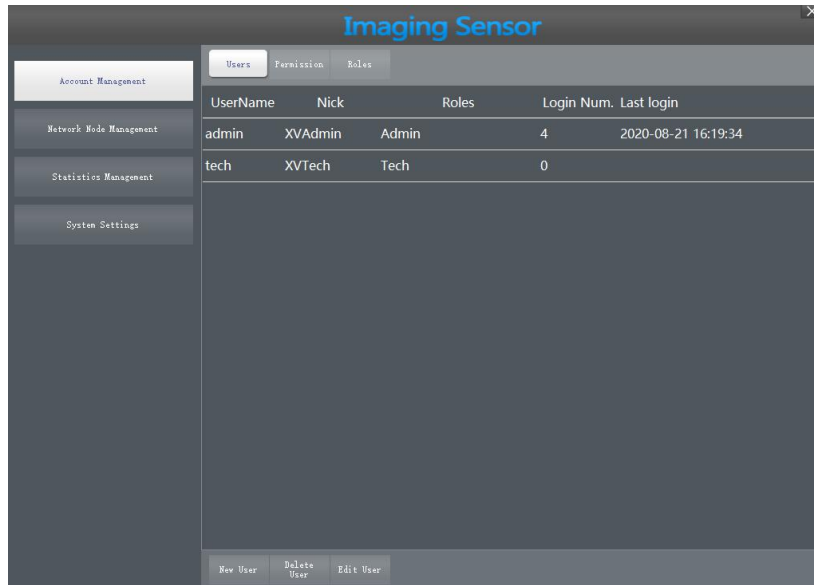


Fig 5-2 Account management

Fig 5-3 illustrates role management. Admin user can browse all available roles, create a new role, edit role, and etc.

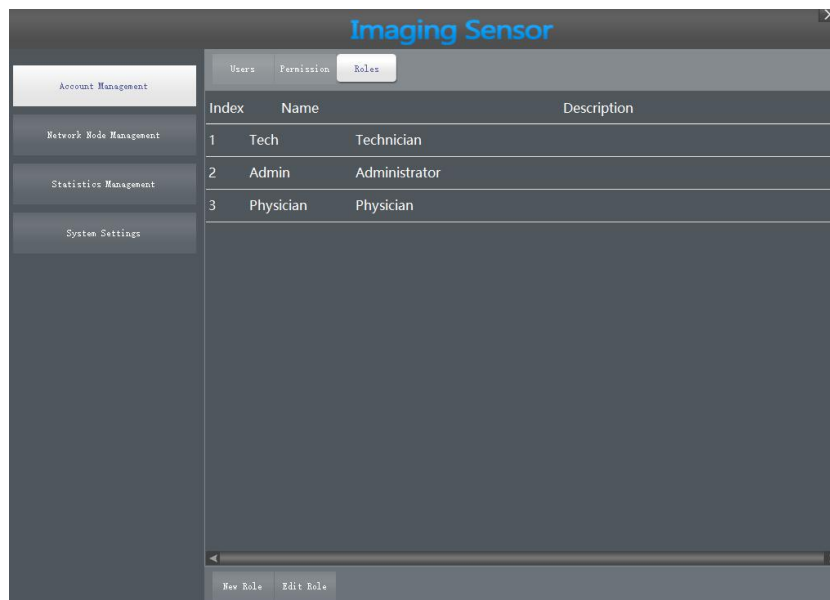


Fig 5-3 Role Management

Fig 5-4 illustrates authorization management. Admin user can

browse all authorization settings related to each role, and edit such settings.

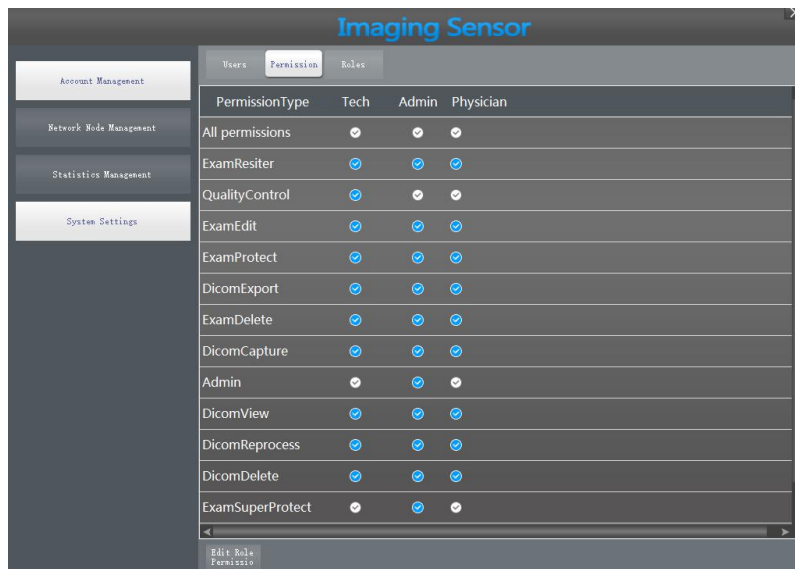


Fig 5-4 Role Authorization Management

5.3 Network Node Management

The admin can add, delete, edit the network node and test the link status of it through the Network Node Management.

- **Edit Network Node**

The "DVTK_STR_SCP" is the default system node. Select the node, click the Edit button (after the clicking, the button turns to Save), and the network node information displays (including host name, IP, port serial and etc.). Click the Save button and the Node is saved. See Fig. 5-5

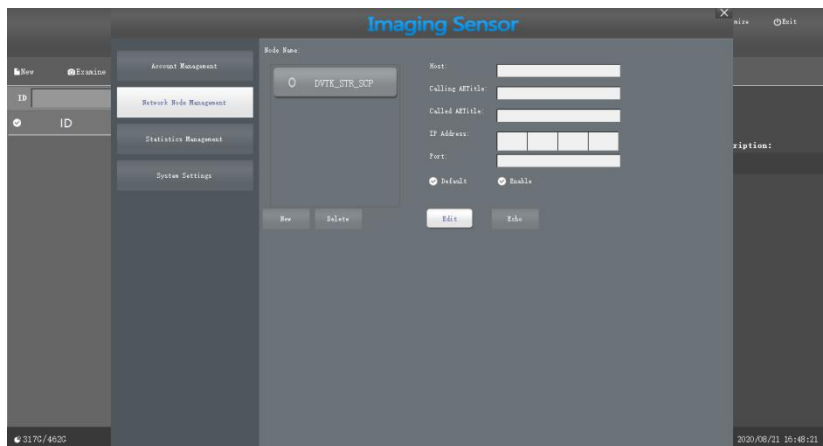


Fig. 5-5 Edit network node

- **Add Network Node**

The admin can click the New button, and fill in the blanks of the Host Name, IP, port serial and then Click the Save button. See Fig 5-6

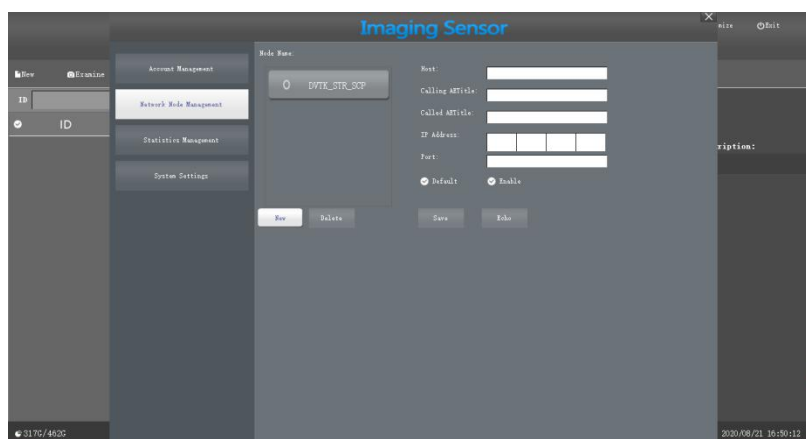


Fig. 5-6 Add network node

- **Delete Network Node**

Select the network node, click the Delete button and the node. Then click the Yes button, the node will be deleted, and click the No button, the deletion will be canceled. See Fig 5-7.

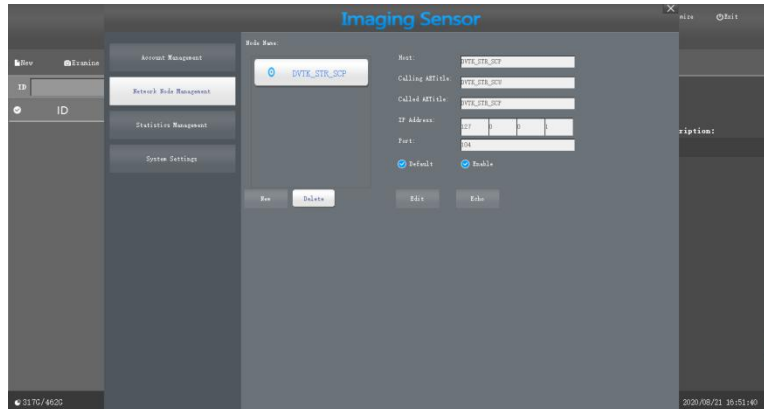


Fig. 5-7 Delete network node

- **Test the network node link status**

Choose the network node, click the Echo button, and if the progress bar finishes, it means the the network node is successfully linked. See Fig. 5-8.

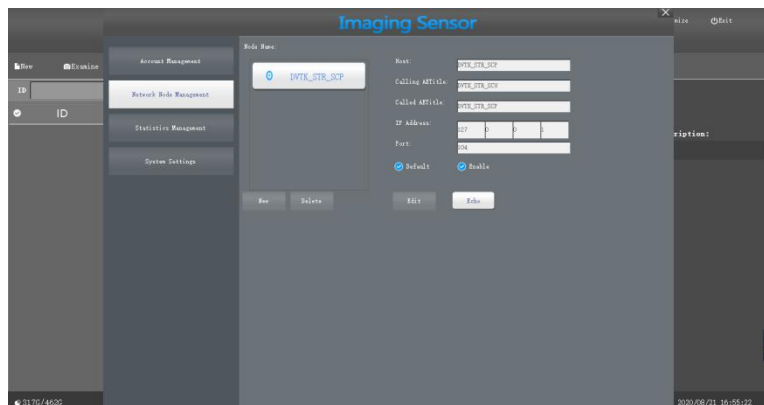


Fig 5-8 Test network node link status

5.4 Statistics

Statistics refers to the statistics of all executed Examinations, by systems, users, and subjects. Results can be exported and compiled as report.

As Fig 5-9 illustrates, the imaging stats report shows the number of

Examinations, images, exposures, rejected exposures of a given technician and clinician.

The screenshot shows the 'Imaging Sensor' application window. On the left is a sidebar with 'Account Management', 'Statistics Management', and 'System Settings'. The main area has tabs for 'System imaging' and 'Subject imaging'. Below the tabs are filters for 'Doc: All', 'Begin Date: 2020/06/17', and 'End Date: 2020/06/18', with a 'Query' button. A table displays the following data:

Index	Technician	Study Num.	Exp. Num.	Accept Num.	Reject Num.	Begin Date	End Date
1	XVAdmin	2	0	0	0		
2	Total	2	0	0	0		

An 'Export' button is located at the bottom left of the table area.

Fig 5-9 Imaging Stats

As Fig 5-10 illustrates, the subject stats report shows numbers such as aggregated dosage.

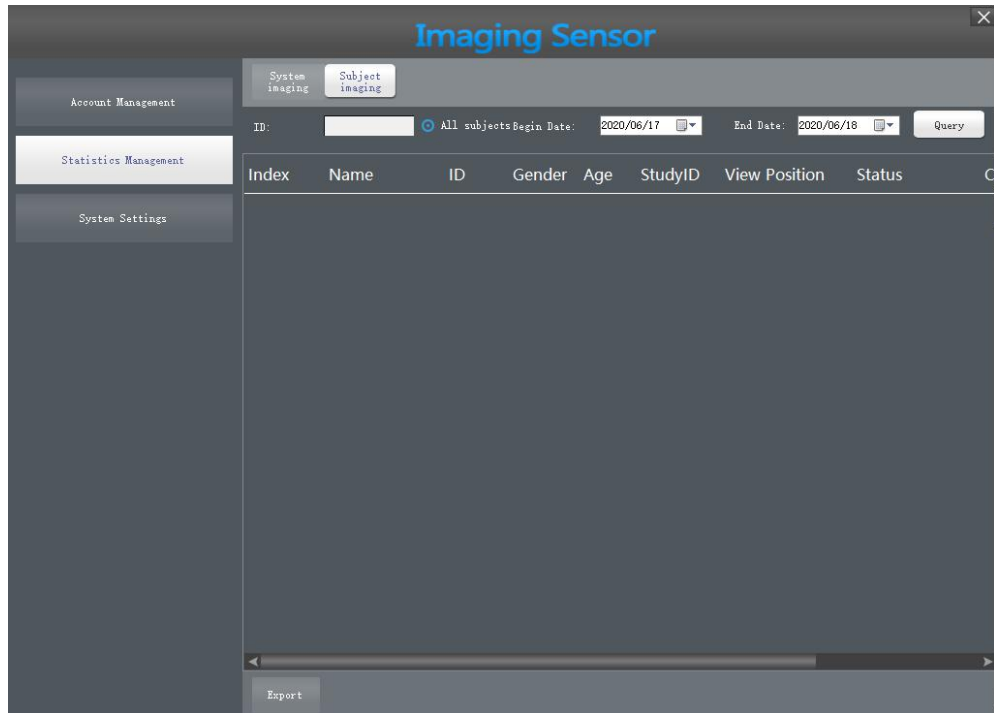


Fig 5-10 Subject Stats Report

5.5 System Configuration

System Configuration management includes system operation mode, hardware API config, sensor settings.

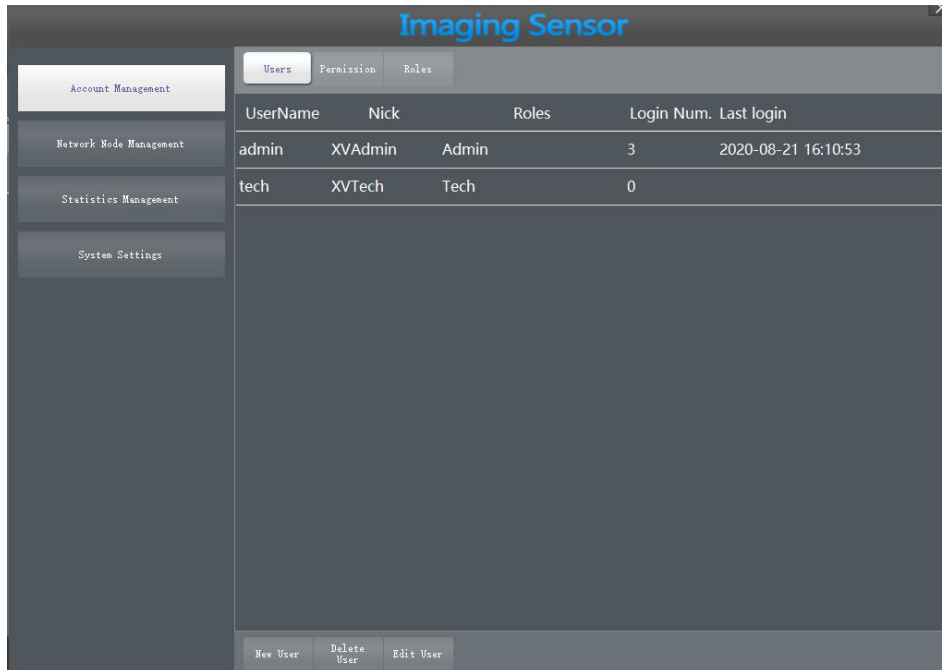


Fig 5-11 System Configuration



Note...

After any changes saved in system config, a system
reboot is recommended for the system update.

5.6 System Calibration

Please refer to the Calibration Manual.