



Vet Software Manual



VOYANCE

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1. Information

This section gives basic information of this manual and the product.

Cautions

Document Guide

Document Convention

Version Information Revision History



1.1 Cautions

If the user is not fully acquainted with this manual, the system can be malfunctioned or unsuspected problem can be happened due to carelessness. To prevent any medical accidents, the user should fully understand the instructions of this manual before operating the program.

When the user operates this software, take the following precautions. Otherwise, problems may occur or the product may not function correctly.

1 Roentgenography, image processing, reading of image, and data storage must be performed in accordance with the law of each country where the program is being used. Also, the user is responsible for protecting the privacy of image data.

2 In no event will Voyance llc. be liable for direct or indirect consequential damage arising out of the use of this program. Voyance llc. will not be liable for loss of image data due to any reason.

3 Before using this software, be sure to read this manual thoroughly. Also, read the manuals of relevant instruments in the system. Keep this manual where it is easily accessible.

4 Other systems and product names in this manual are the trademarks from their manufacturer.



- The user is responsible for ensuring whether the detector calibration is performed right after the software installation. Do not try to use the software if the detector calibration has not been performed.



1.2 Document Guide

This section describes about the information of this document.

Contents This document is the operation manual for **Voyance** users. You can install **Voyance** and acquire / manage images from the detector. It is also available to improve the image quality by using various image management and adjustment tools.

Target This manual is intended for the end users who use the **Voyance Software**.

Contact Department

For any comments or inquiries regarding this document, contact the customer support team in Voyance.



1.3 Document Convention

This section describes the rules about symbols and notations in this document.

1.3.1 Symbols

Caution and Warning



WARNING: Warnings are directions which, if they are not followed, can cause fatal or serious injuries to a user, engineer, patient or any other person or can lead to a mistreatment.

Information



This symbol is used for indicating the product-related references and complementary information.

1.3.2 Notations

Bold Types

We applied bold font style to the words indicated GUI (Graphic User Interface) of the program or needed to transmit clear meaning to the customers. This helps you to easily distinguish GUI from other technical ones for explaining functions and the emphasis content.



1.4 Patient data security

It is the responsibility of the hospital to ensure that the patients' legal requirements are met and that the security of the patient records is:

- maintained and tested,
- audited,
- administered locally to cover risks from third party access and
- How the availability of the services is to be maintained in the event of disaster.

1.5 High security: HIPAA & Cyber Security

Within the healthcare industry, several standardization efforts are ongoing as a response to Privacy and Security legislation and regulations. The purpose of this standardization for hospitals and vendors is to enable information sharing, interoperability and to support the workflow of hospitals in a multiple vendor environment.

In order to allow hospitals to comply with HIPAA regulations (Health Insurance Portability and Accountability Act) and meet the IHE standards (Integrated Healthcare Enterprise) security features are included in Voyance:

- User authentication. The administrator can configure different user accounts. Each account consists of a user name and a password. Refer to "Patient data security" in **Appendix I** the system login is used for user authentication and identification is required.
- Node authentication, using certificates. Working with SSL (Secure Sockets Layer) allows secure communications on an insecure network. SSL is the security layer on top of TCP/IP.
- Administrator logging. This implies logging to a setting and configurations of specific VOYANCE 'Areas', e.g. users privileges, Hardware configuration , Dicom Configurationsetc.
-



1.6 Revision History

Ver.	Date	Revision History
1.0.0.1	06-27-2016	Revised newly
1.0.0.2	08-13-2018	Revised additionally
1.0.0.3	01-19-2020	(Updated) New features



2. Instruction

This section provides basic concept and recommended specifications of

Voyance. Overview Recommended Specifications



2.1 Overview

Voyance is the image Acquisition/Viewer program for **Digital Flat panels** only that acquiring, adjusting and managing images generated from the detectors.

Voyance is organized with several specialized modules. This system provides high quality medical images to users through various advanced functions and quick image processing between the modules.

2.2 Main Features

- Acquire and search images exposed from the DR detector.
- Implement high-quality image by applying Voyance image processing algorithm developed by Voyance.
- Skins for various GUI (Graphic User Interface) suitable for both ordinary and touch screens.
- Store and manage images in the database.
- Adjust images using various processing tools.
- Export images using various media.
- Check the detector condition and change the settings.
- Chase and search the system status.
- Voyance conforms to the standard of DICOM 3.0.



2.3 Minimum System Requirement

- OS: Microsoft Windows 7, 64 bits or Higher
- CPU : Intel core i3
- RAM : 4GB
- HDD : 50 GB free space
- NIC : Ethernet Network Card
- Display : 1280 x 1024 Resolution, 24



3. Installation

This chapter provides information about installing Voyance



3.1 Installation Guide

Follow the instructions for safe and correct installation of Voyance. Failure to comply with the instructions under will result critical errors of its installation or operation.

- You should be fully aware of this manual before / after installing Voyance.
- Do not install Voyance to USB HDD, USB memory or a network drive.
- Be sure to install Voyance to the local drive. (C or D drive)
- Do not install Voyance to the root folder of C drive. It is recommended to install the program to the setup path guided by Voyance.
- Check the free space of storage media before installing Voyance. If the Storage space is limited, the software cannot be operated normally.
- You should secure enough space of the drive for storing the images and Data.
- Log on to Voyance by the Windows account with administrative rights when installing or removing Voyance.
- Set the Windows date and time precisely in advance.
- Check the virus infection of your PC by using virus test software before / after installing Voyance.



- Voyance complies with the UAC (User Account Control) policy of Microsoft Windows. Therefore, the user should install and log on to Voyance by Windows account with the administrative rights. You can use Voyance with the general user account after the installation.

- The computer name and the user account name should be set differently to install the database in Windows normally.
- Before you install the Voyance program, make sure to change the computer name if it is same as that of the user account. If not, the program cannot be installed properly.
- Check the computer name as follows.
- Check the user account name as follows.





3.2 Start installation

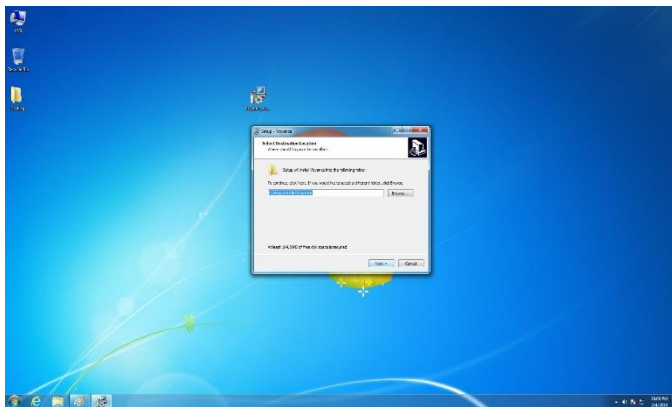
- a) Double-Click on Voyance setup file to start the installation.



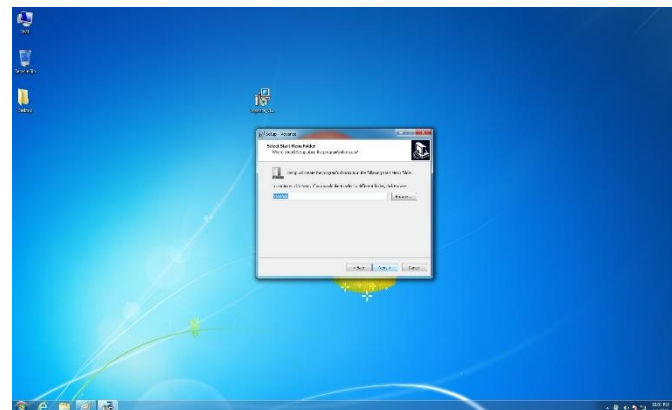
Note: The installation wizard will guide you through the installation



- c) Click "Next" to continue the installation

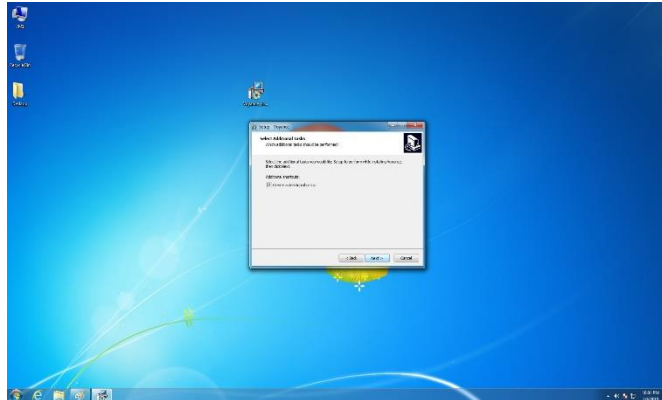


- b) Click "Next" to continue the installation , Change the Voyance installation destination if needed

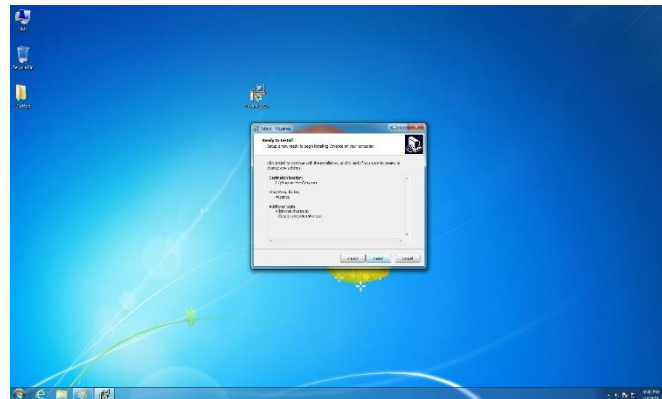




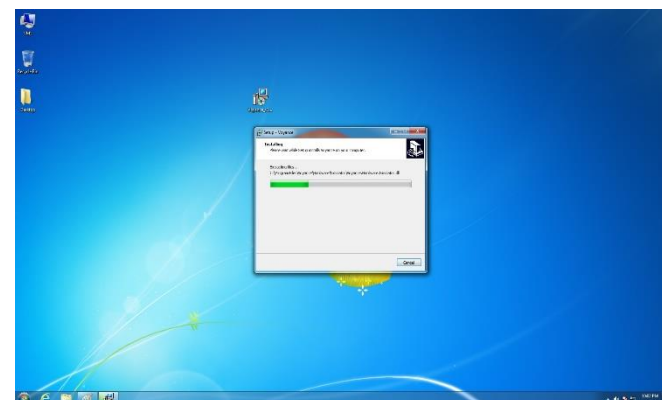
- f) Click "Next" to continue the installation , check create desktop shortcut option if you want to have Voyance shortcut on the desktop



- d) Confirm the installation destination folders and Click "Next" to continue the installation



- e) Wait for installation to be completed.

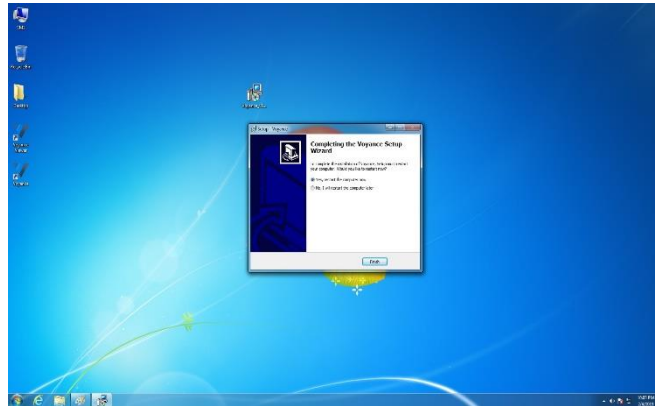




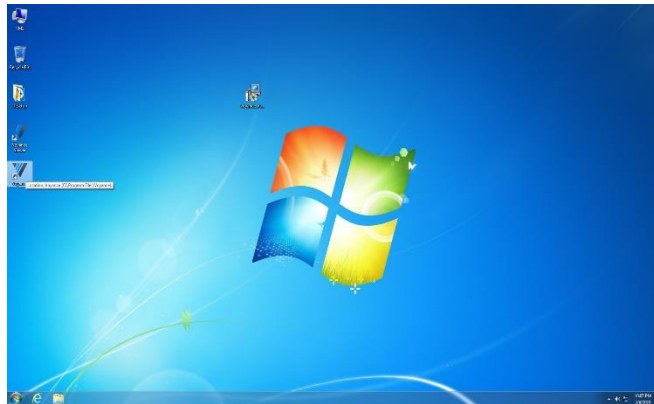
- i) Click "Finish" to complete the installation



Computer reboot required after finishing installation

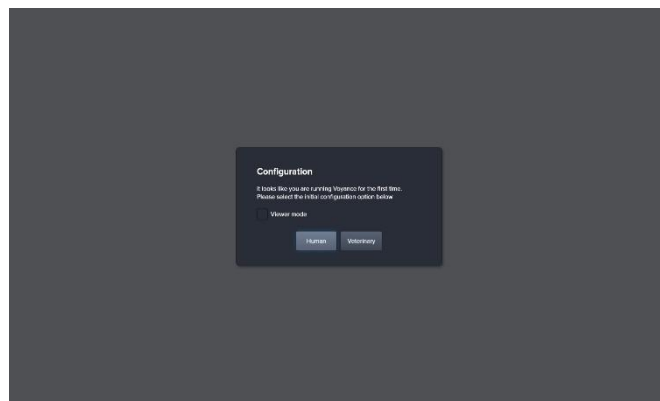


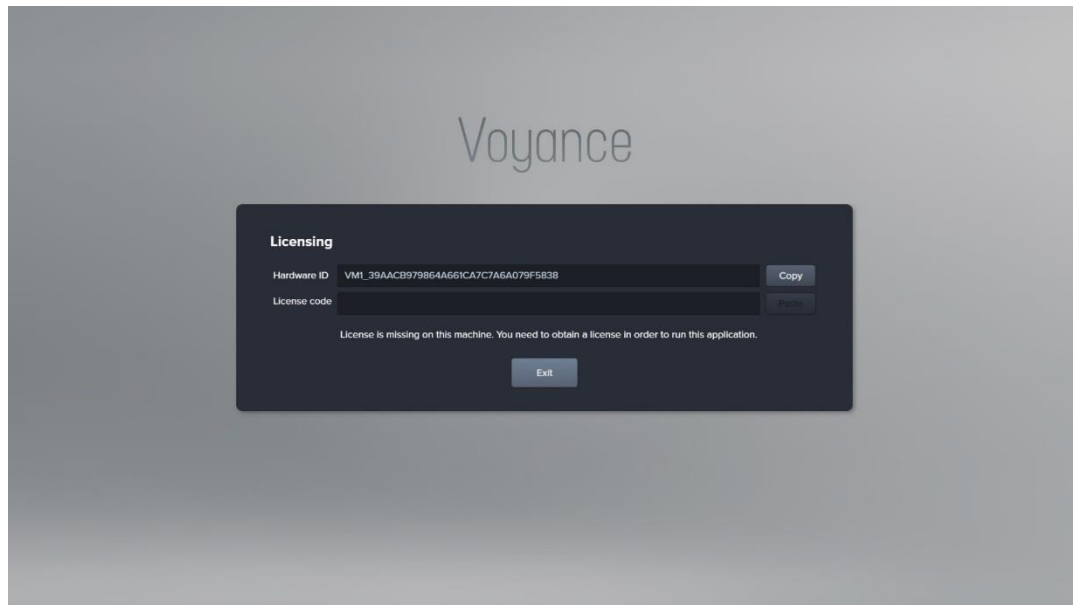
- h) Double Click on "Voyance "shortcut on the Desktop to lunch the software for the first time.



- g) Confirmation on what applications will be used will requested.

Select Human or Vet





- Get a license by using the **Hardware ID** indicated on the License window. This window is not displayed again after the license is registered successfully.
- A new license window can be displayed if you change specifications of the PC where **Voyance** is installed. Contact Voyance Support for providing a software license for activation of the software.



4. Browse Around

This section gives instruction on how to start and close Voyance and its basic components.

Starting Up

Basic Composition

Registration Area

Exposure Mode

Layout

Viewer Area

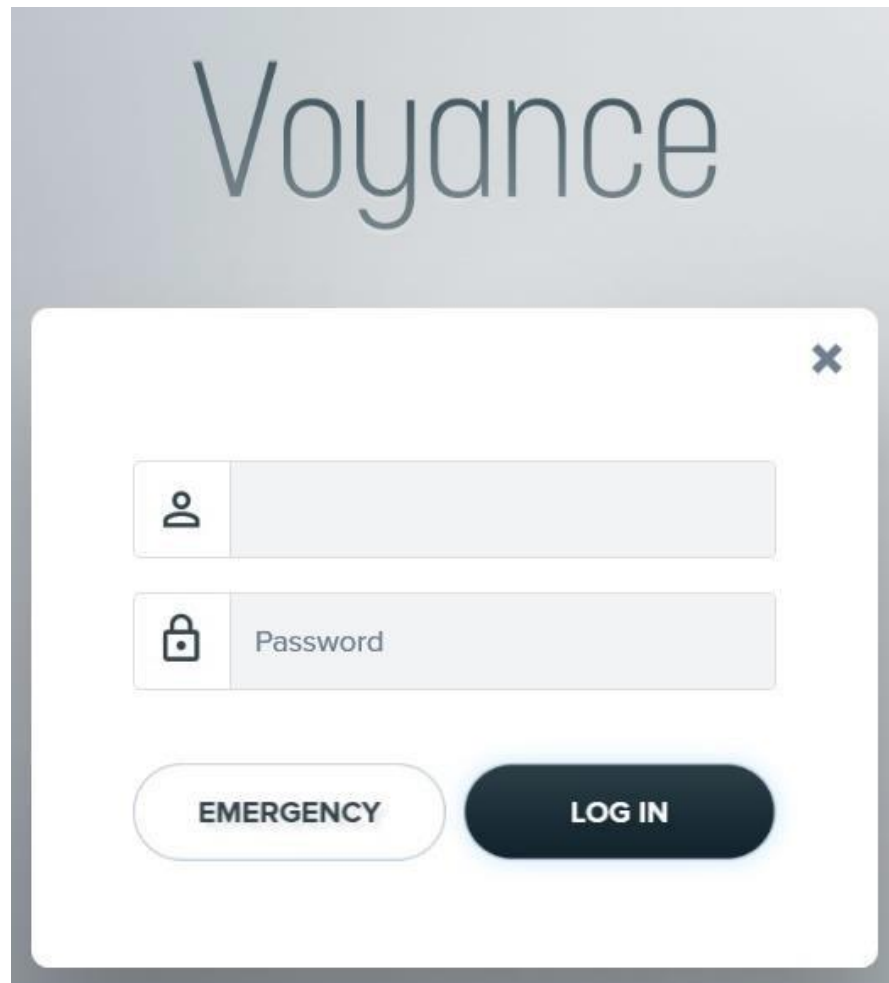
Tools

Pop up menu



4.1 Starting Up

4.1.1 Running Voyance



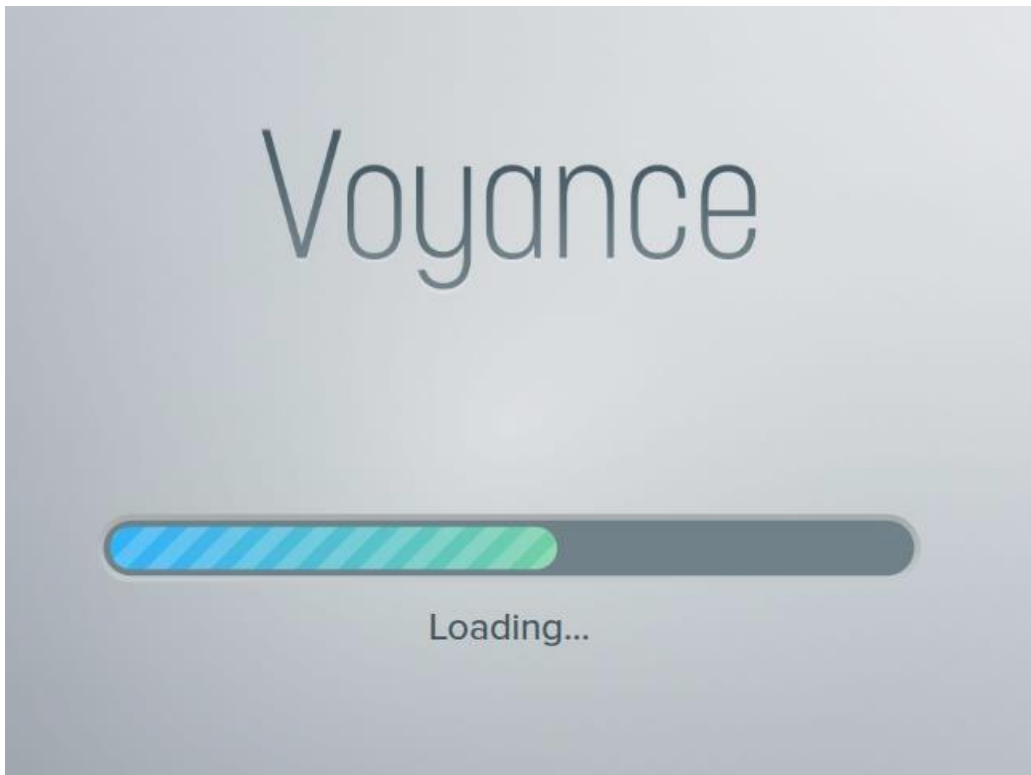
Start

- Login

Start the program.



1. Double click **Voyance** icon on desktop to start.



2. Wait until **Voyance** loads completely.

While running **Voyance**, the following points are processed.

- Connecting to database.
- Checking license registration status
- Checking detector connection status
- Checking detector calibration status
- Checking resolution.
- Initializing UI (User Interface)



1. Use the provided user name and password to login then click login.

4.2 Registering License

The screenshot shows a dark-themed window titled "License". It contains two text input fields. The first field is labeled "Hardware ID" and contains the text "R90L2RNF_53B3B227AA1F646EA54F662331F8BECC". To the right of this field is a "Copy" button. The second field is labeled "License code" and contains the text "FB385B26D7A7ADBF8E99CFF600081846A3DD9F605EAE0414119DC84A817508C45946313373084026F906". To the right of this field is a "Paste" button.

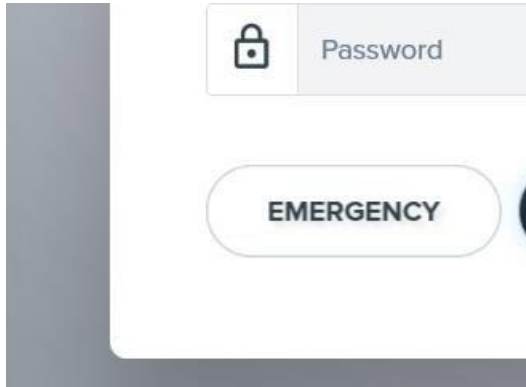
- . Get a license by using the **Hardware ID** indicated on the License window. This window is not displayed again after the license is registered successfully.



- A new license window can be displayed if you change specifications of the PC where **Voyance** is installed.
- Contact the Voyance Support for the license issue and input.



4.3 Log on to (Emergency Room) Mode



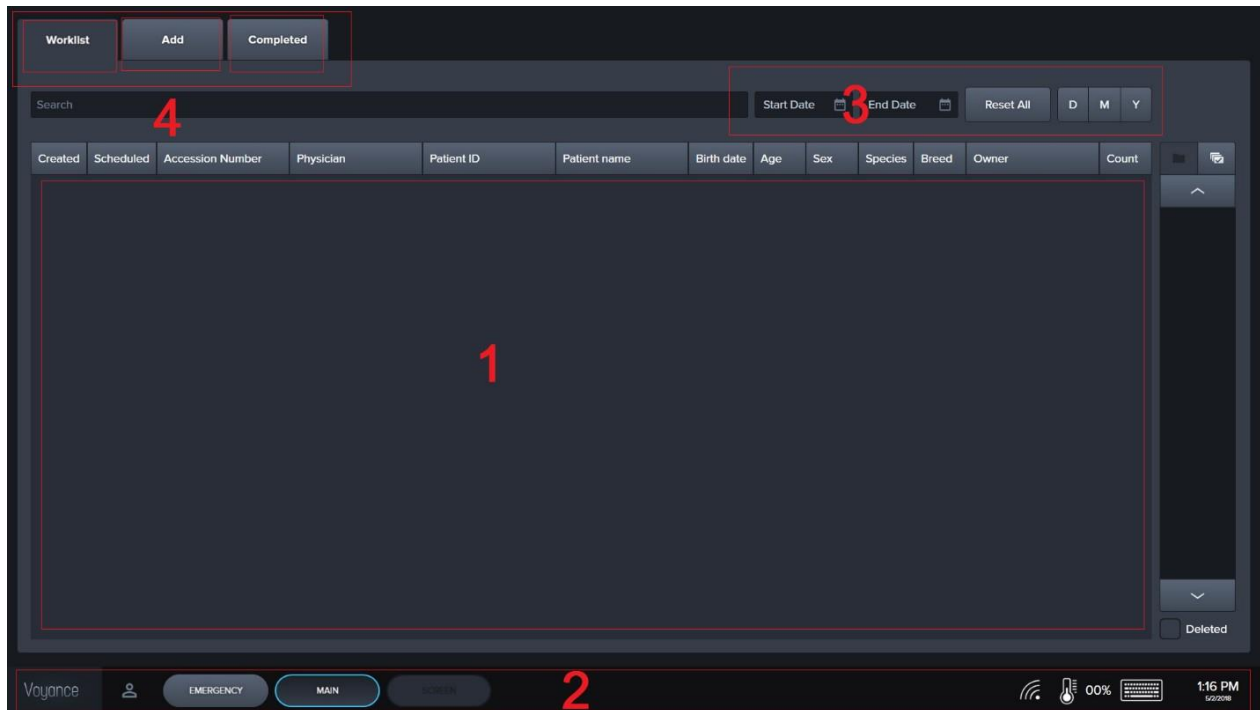
Click on the **EMERGENCY** button to log on to the **EMERGENCY** mode.

- This mode can be used for the emergency circumstances such as emergency exposure without entering ID and Password.



4.4 Registration Area

The **Registration** Area provides functions for registering and managing the patient information.



1 Searched list area

You can check the searched result on the list after searching patient information.

2 Tool button area

The bottom area show active device information plus some more menu including setting through Voyance pop- up menu.



3 Search tool area

You can use the search tools for searching the patient information.

4 Patient Information Area divided into three Tabs (**Worklist**, **Add** and **Completed**) according to the registration method of patient information. You can choose the desired tab and register patient information.



4.5 How to Register Patient Information

This section provides information about registering the patient information.

Retrieve Patient information through the Worklist in the Worklist Tab and Input patient information through Add Tab.

4.5.1 Worklist Tab

You can retrieve the scheduled patient information in the Worklist tab using DICOM Worklist configuration.

1. Input or choose the search conditions to start searching for patients.
2. Check the searched **Worklist** and choose the desired item.
3. Double click on the requested patient to start study.

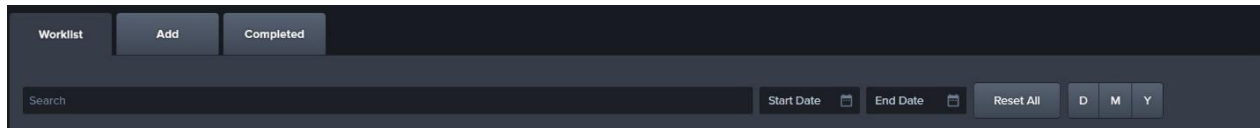


- Ask DICOM compatibility guide (**DICOM Conformance Statement**) to the DICOM server company for checking the operation of the SCP server and for its correct connection.

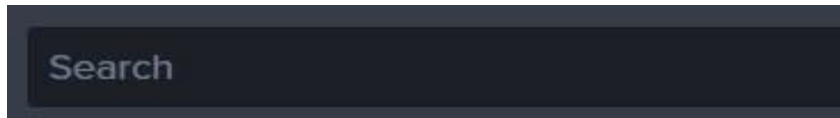


4.5.2 Tools

Worklist search tools you can get the patient information list by using the search tools in **Worklist tab**.



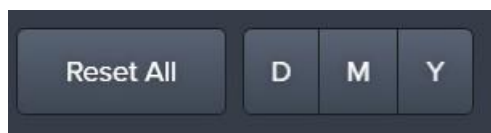
4.5.3 Tool buttons of Worklist



Patient information search area



Date Search period



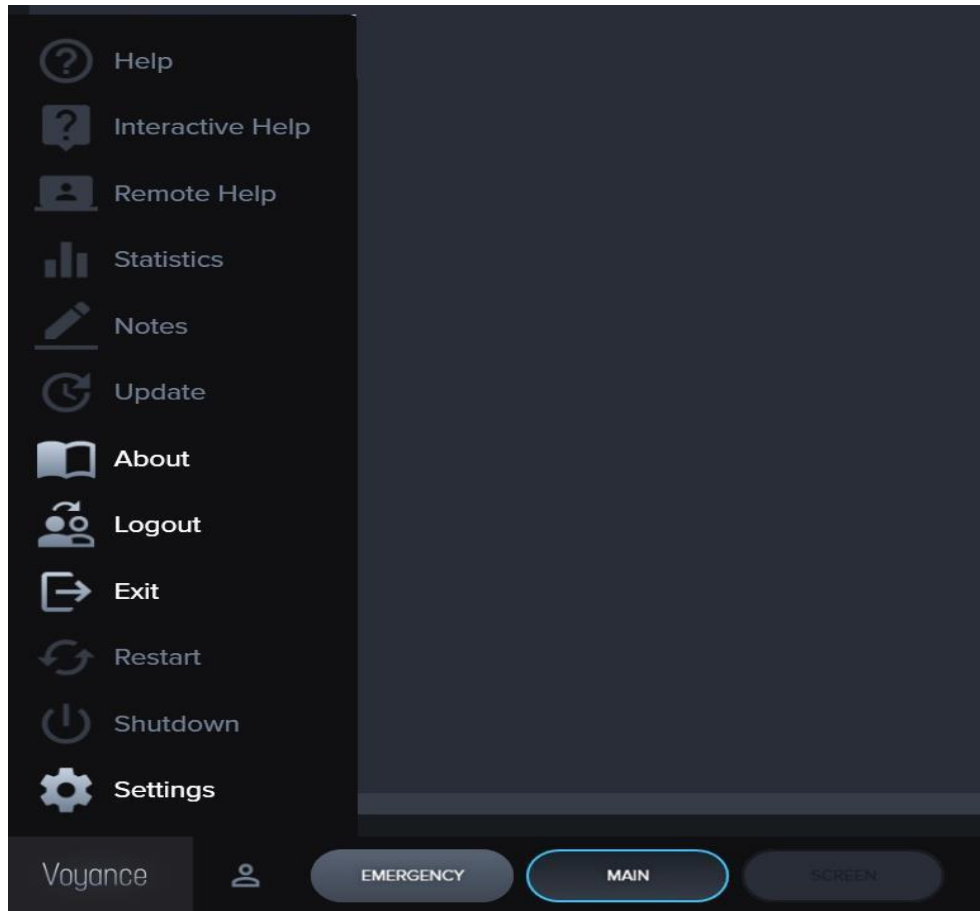
Reset all to reset all search

D search for one day
M search for one month
Y search for one year

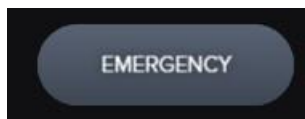


Worklist Item Search field for scheduled patient's studies, Search Studies by dates, Reset All and Also Search for a period of time by Press the period selection buttons (**Today, Week, Month**).

4.6 Voyance common Tools bar / Pops-up Setting Menu



4.6.1 Start emergency exposure



Click on the Emergency button to start the emergency exposure irrespective of the Scheduled item.



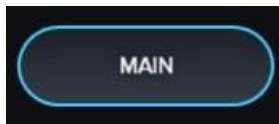
The screen is switched to the Exposure mode automatically.

The ID and name of the emergency patient is input automatically based on

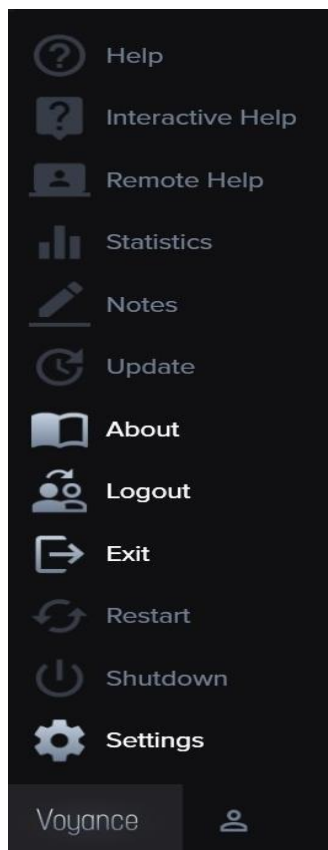
the present date and time. The ID form is Emergency Number.



- You can update the patient information after completing the exposure.



Click on the Main button to access the Registration Tabs any time during using the Voyance software.



Click on the Voyance button to access the pops-up menu any time during using the Voyance software.



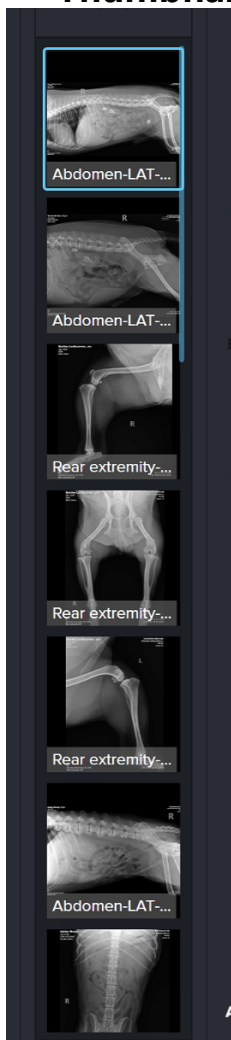
4.6.2 Detector information



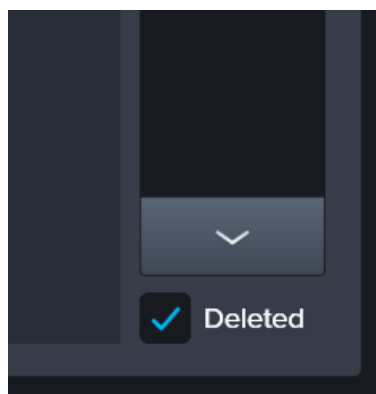
- Wi-Fi Strength
- Temperature
- Battery level
- Virtual Keyboard

4.6.3 Images

Thumbnail display



It shows thumbnails for images included in the selected study.



Display deleted images
Thumbnails when Deleted box
checked



4.7 Add Tab

You can manually input the patient information from the add tab.

- The patient information can be stored to the local database.
- You can make an exposure after inputting the patient information.
- You can start an emergency exposure without inputting the patient information.
- You can start exposure mode once you input the required information.

The screenshot displays the 'Add' tab of the software interface. The left sidebar contains the 'Schedule new study' form, which is divided into 'Patient info' and 'Study info' sections. The 'Patient info' section includes fields for Patient ID*, Patient Name* (First Name, M.I., Last Name), Owner Name (First Name, Last Name), Age, Date of Birth, Species (Canine), Sex (Unspecified), and Breed. The 'Study info' section includes fields for Accession number, Positions, Performing physician, Scheduled date, and Study notes. The right sidebar shows a 'Canine - Main' view with a skeletal diagram of a dog and labels for Skull, Dental, Spine, Pelvis, Thorax, Abdomen, Front extremity, and Rear extremity. At the bottom of the interface are buttons for Reset All, Save, and Start.

This close-up shows the 'Patient ID*' and 'Patient Name*' fields. The 'Patient ID*' field is a single-line text input. The 'Patient Name*' field is a multi-line text input with 'First Name' as the first line.

* Required fields



- Input the required patient information
- Select the Breed and the body part on the showing Avatar
- Add the requested views and select the body size L/M/S

Patient info

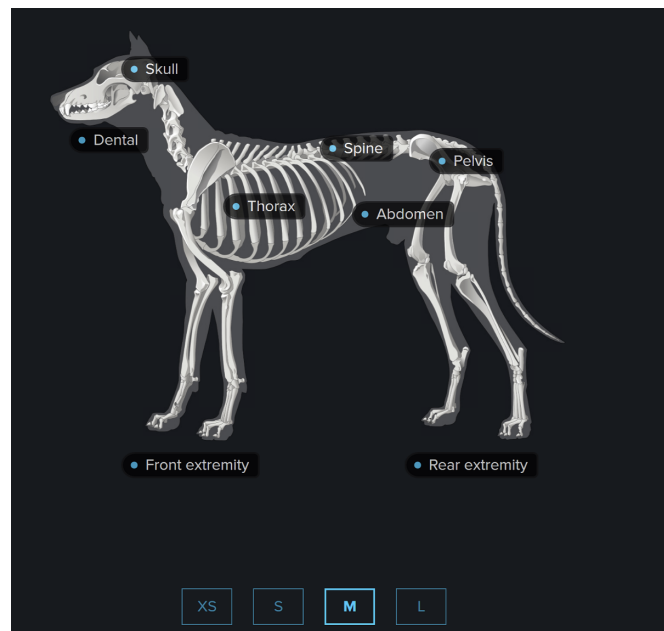
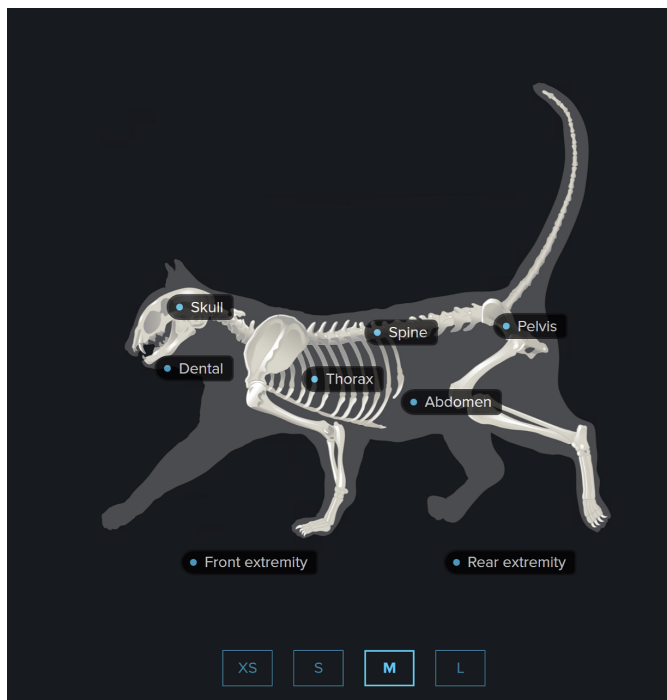
Patient ID*
ID

Patient Name*
First Name M.I. Last Name

Owner Name
First Name Last Name

Age Date of Birth
DOB

Species Sex
Feline Unspecified
Canine
Feline
Big bird
Exotics
Equine



A screenshot of a software interface titled "Edit study properties". The interface is divided into two main sections: "Patient info" on the left and "Study info" on the right. The "Patient info" section contains fields for "Patient ID*" (with the value "Emergency 7"), "Patient Name*" (with "Emergency 12/21/2018" and a "Last Name" field), "Age", "Date of Birth" (with "DOB" and a calendar icon), "Species" (with "Human" and a dropdown icon), and "Sex" (with "Unspecified" and a dropdown icon). The "Study info" section contains fields for "Accession number", "Performing physician" (with a dropdown icon), "Scheduled date" (with a calendar icon), and "Positions" (a large empty box). Below these sections is a "Study notes" area with a large text input field. At the bottom center of the dialog is an "OK" button.

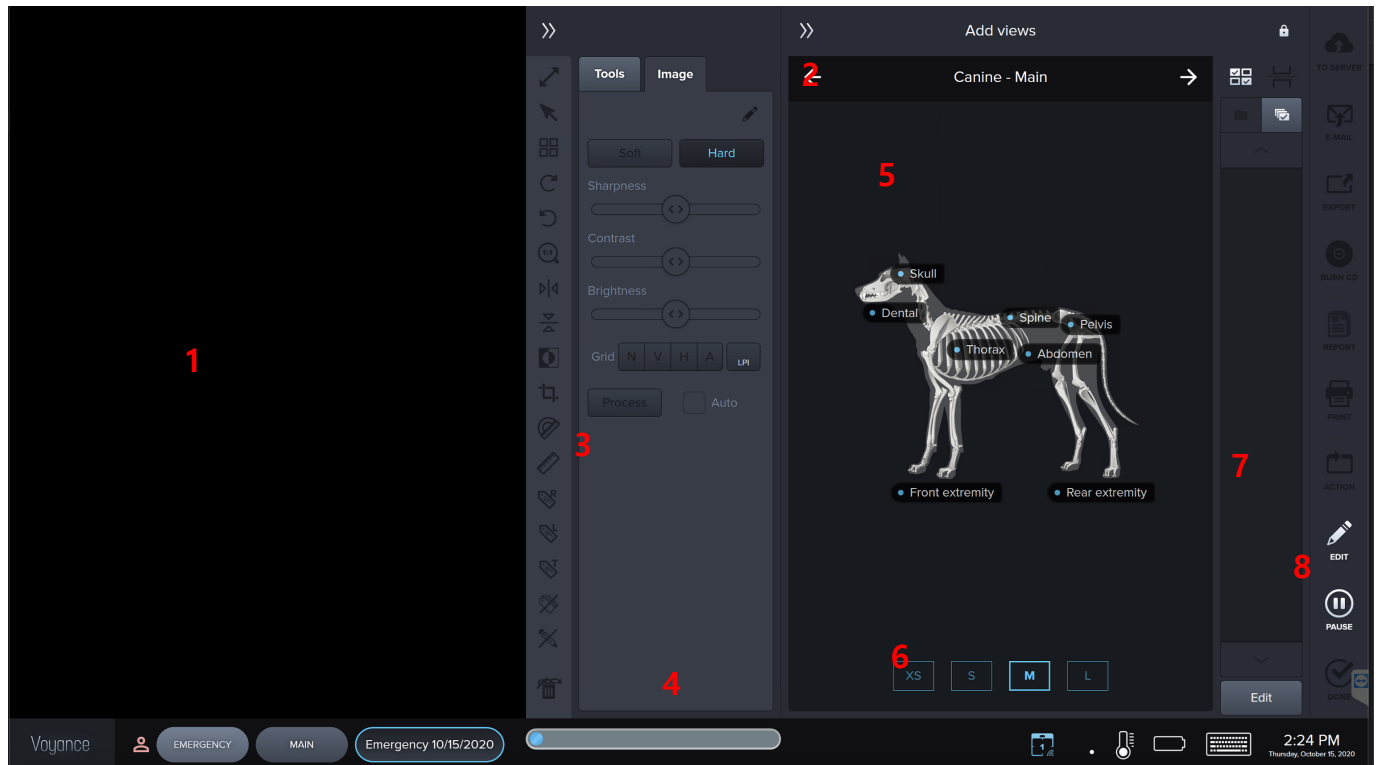
Click Reset All to reset all patient information fields.

Click Save to the save patient information to the local database. Click Start to start study in exposure mode.



4.8 Exposure Mode

The displaying layout of **Exposure** mode is changed automatically depending on the screen choice (Fold / unfold).



- 1 Exposure Area (Acquired Image Area)
- 2 Screen Options / Tools
- 3 Image Tools
- 4 Status Bar
- 5 Body Parts
- 6 Active Sensors
- 7 Views Thumbnails
- 8 Study Tools



4.9 Default Layout (Unexpanded)

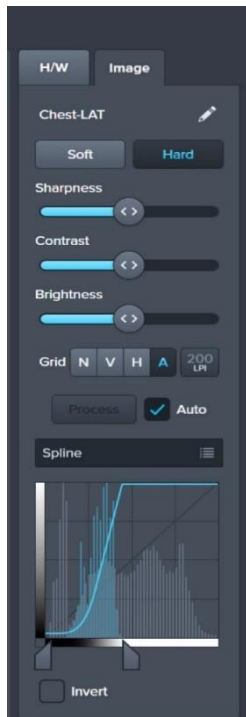
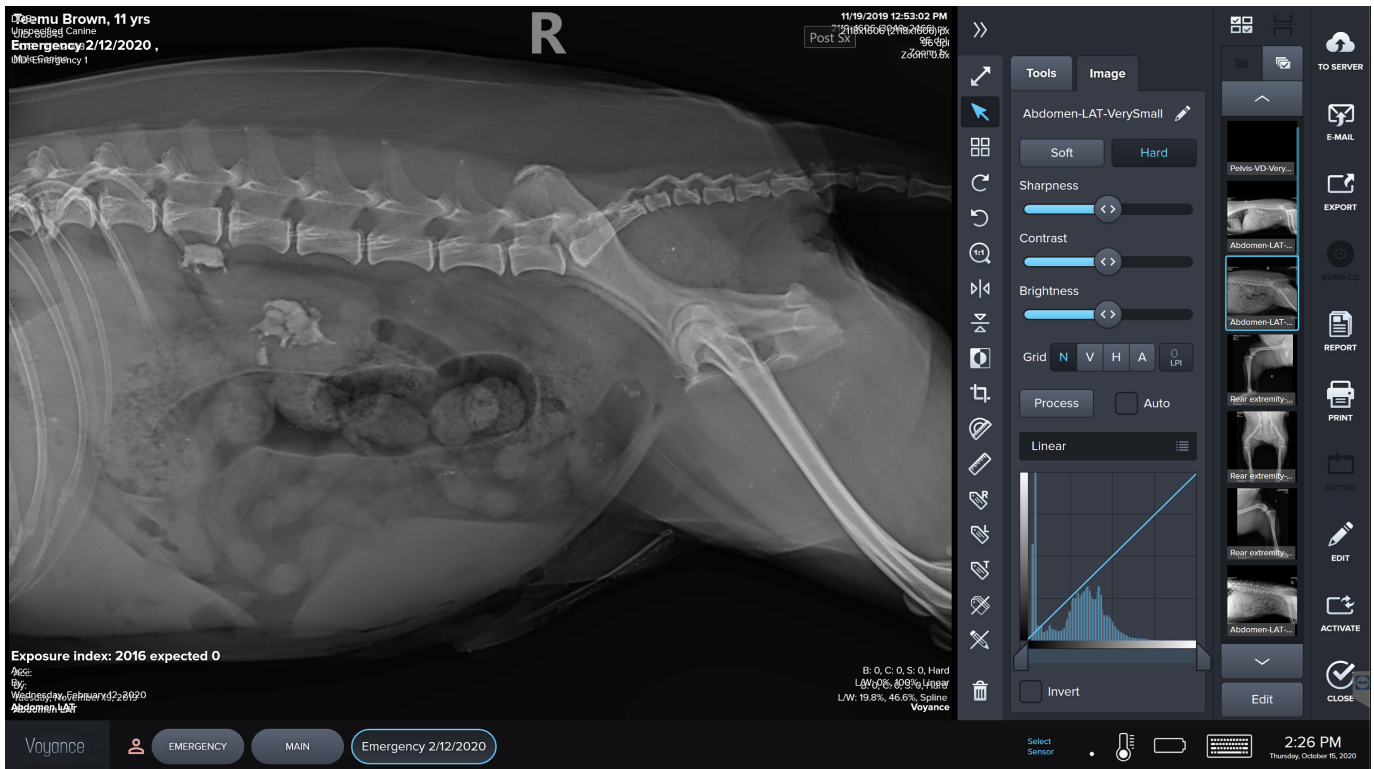




















Image Processing Tab

- Soft Preset Image Processing Algorithm Showing soft tissues.
- Hard Preset Image Processing Algorithm showing more bone details and less Soft tissues.
- Sharpness / Contrast and Brightness Manual Adjustment for the Acquired images.
- Invert: if checked the image will be inverted.



4.10 Image Tools:

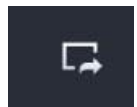
	Full Screen View
	Select
	Image Advanced Tools
	90 Degree Clock wise rotation
	90 Degree counter clock wise rotation
	fit to Screen
	Image Mirror
	Image Horizontal Flip
	Window / Level Control
	Cropping
	Angel Measurement
	Distance Measurement
	Right Annotation
	Left Annotation
	Free Text Annotation
	Hide Annotation
	Reset Image
	Delete



4.11 Screen Options /Tools:



Collapse Window



Import Images from files *



Past Copied Images



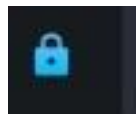
Multi-Selection Mode



Write PDF Report



Compare 2 Studies



Lock Window

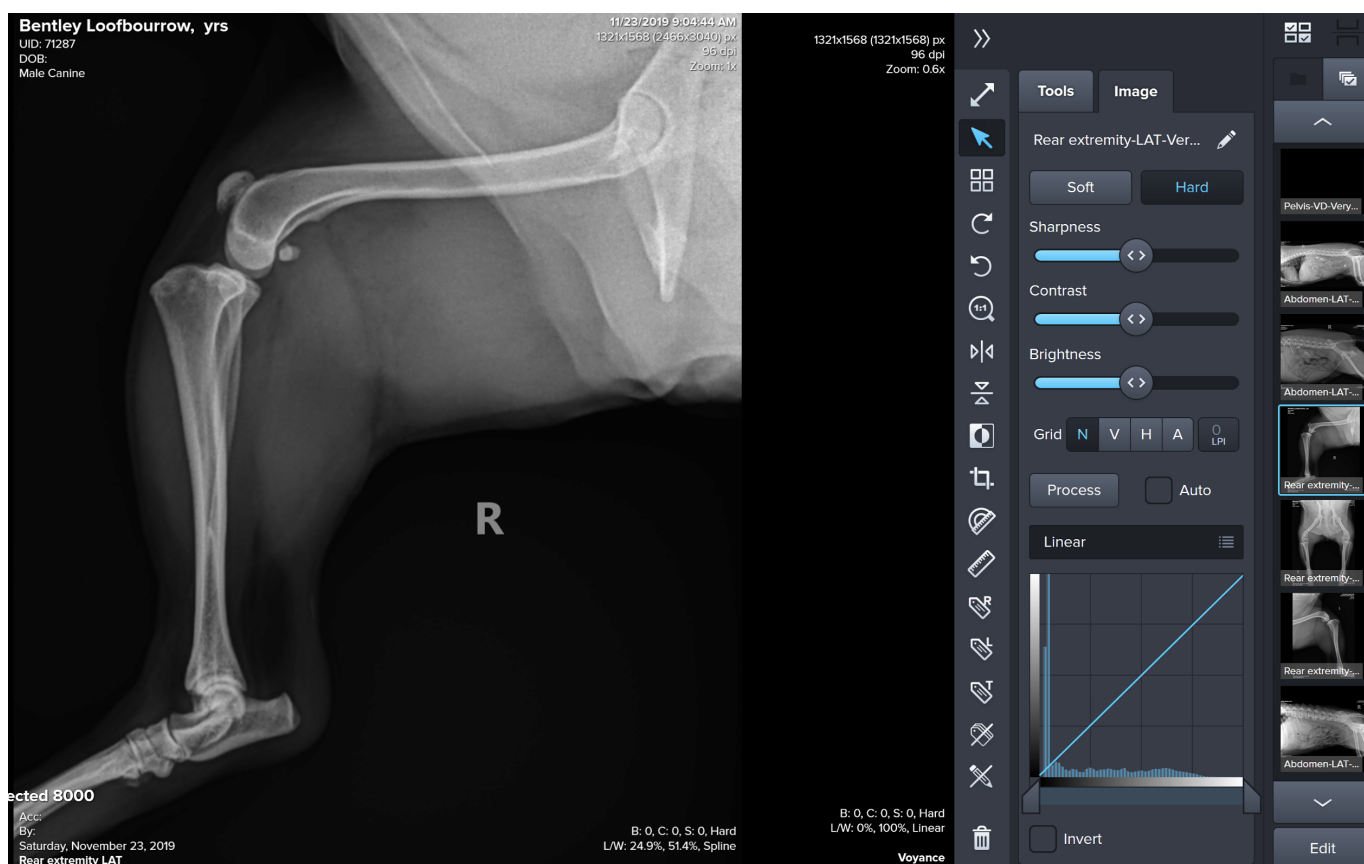


*Imported file formats could be all image file formats (Bmp, Tiff, Jpeg.....etc.) or Dicom format













4.12 Unexpanded Layout

- The minimum display resolution is 600 x 800 however we 1280x800 or higher is recommended.
- The Exam area is switched to the expanded area when you make an exposure after setting the study.
- After making the exposure you can go back to unexpanded screen by clicking of touching collapse window arrows.
- You can keep the current view by selecting the lock icon.





4.13 Main Screen Tools

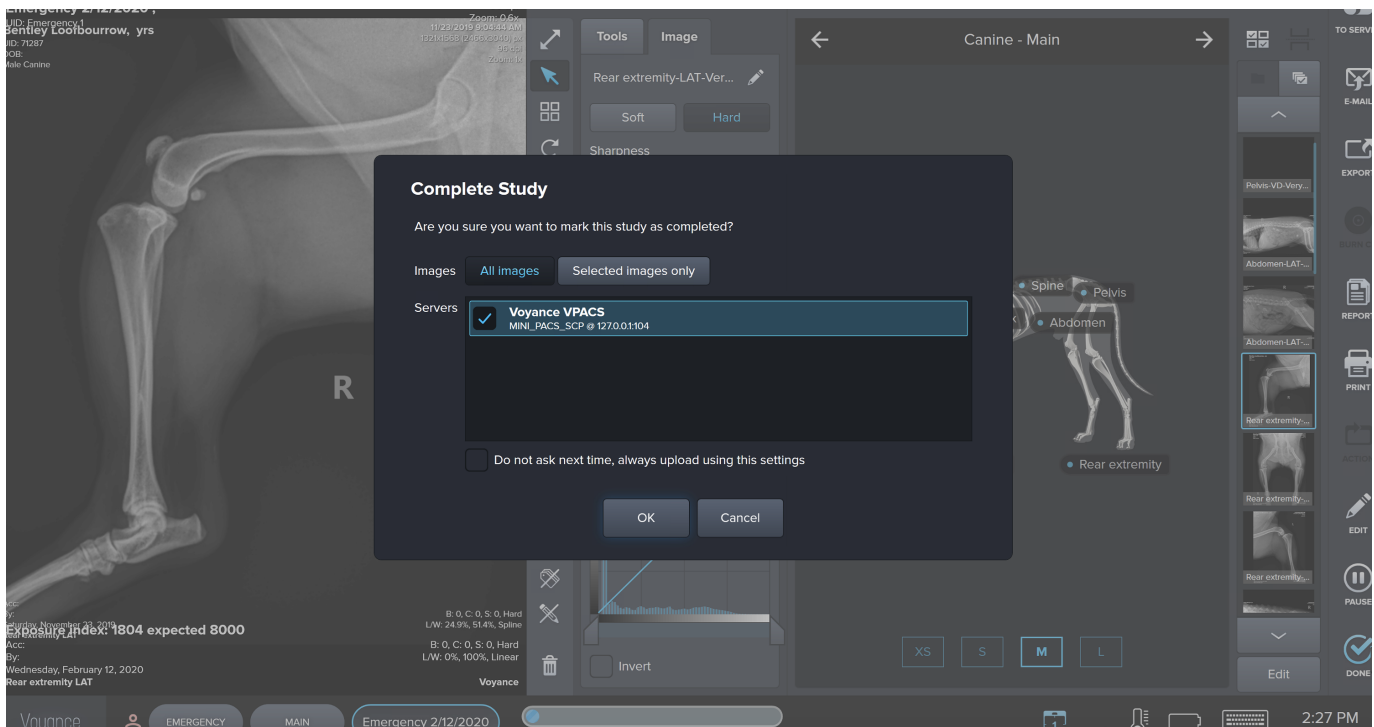
 TO SERVER	Send to the PACS server
 E-MAIL	Email Selected Images *
 EXPORT	Export selected images to files
 BURN CD	Burn Cd /DVD
 REPORT	Create a PDF report
 PRINT	Print Selected Images
 ACTION	Run a pre customized process
 EDIT	Edit patient information
 ACTIVATE	Open completed study in the exposure mode
 CLOSE	Close / Complete Study



*emailed studies will be sent with anonymous information



4.14 Send to the PACS server



For Manual send to the PACS

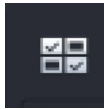
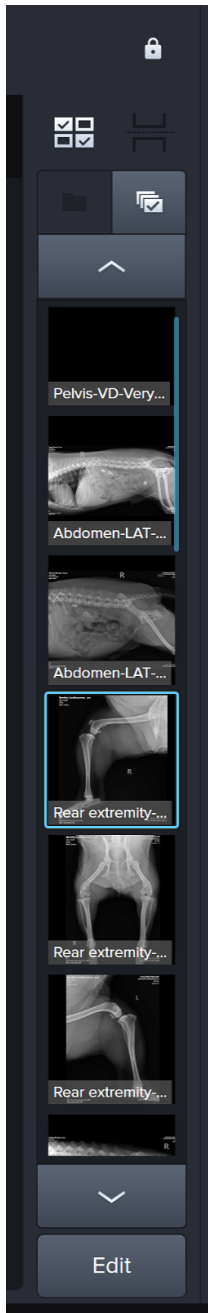
- Click To Server Icon
- Make sure to select the requested PACS destination
- Select all images or selected images
- Click ok



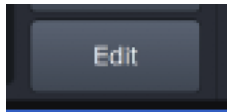
PACS Destination must be previously configured through setting



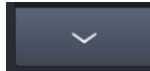
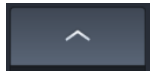
4.15 Thumbnail Area Tools



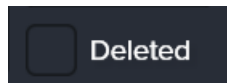
Multi images select when using touch Screen



Edit Option allows you to copy /Cut and past Images Across Studies



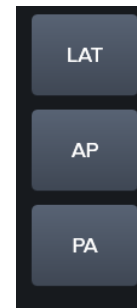
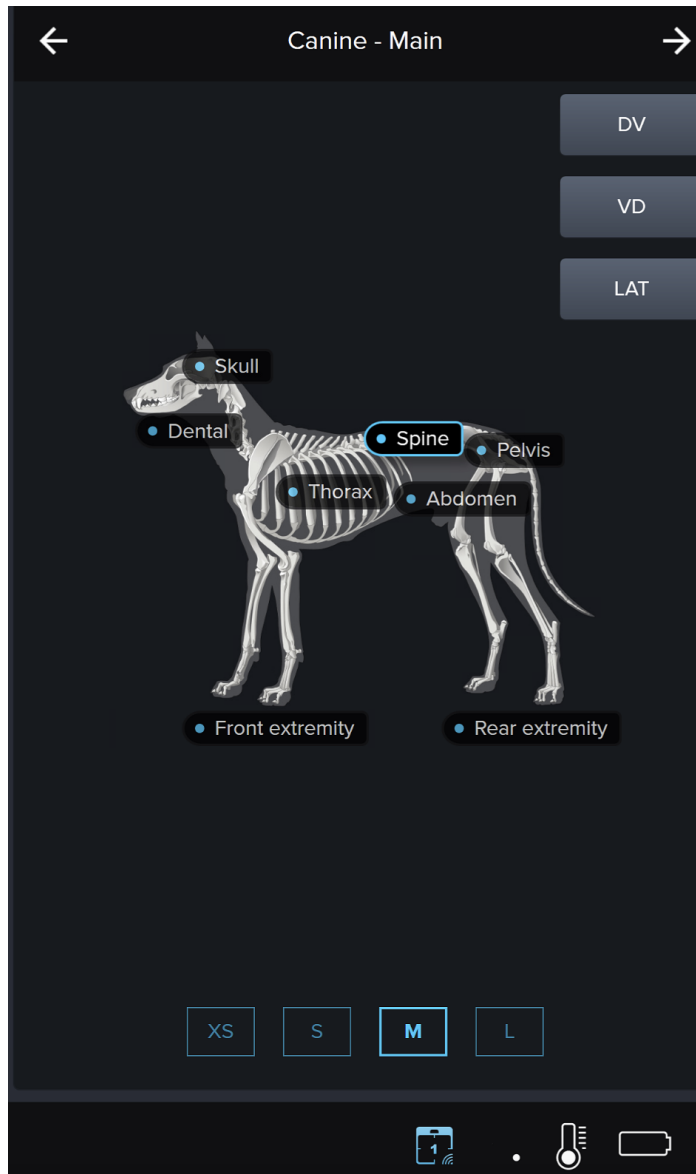
Moving Image View Selection up/down



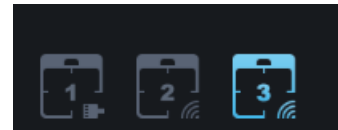
Show Deleted Images when checked



4.16 Body part / Views Selection



Selection of the scheduled views















Manual Selection of the Active Sensor



Failing on selecting the active Sensor might lead to failure in the image acquisition .



4.17 Voyance Pop up Menu

 Help	Access Help page
 Interactive Help	Access Interactive Help website
 Remote Help	Request Remote Support
 Statistics	Studies Statistics
 Update	Check for Software update
 About	About the Software version
 Logout	Logout the Current User
 Exit	Exit the Software
 Restart	Restart the Workstation
 Shutdown	Shutdown the Workstation
 Settings	Access the Setting page
Voyance  admin	



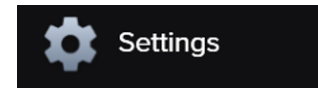
5. Setting

This chapter provide information on how
Configure the different features in Voyance

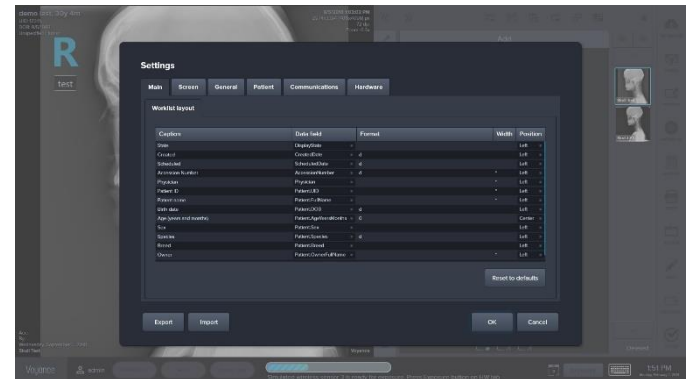


5.1 Setting Access

Select setting tab form pop up menu to access the system setting



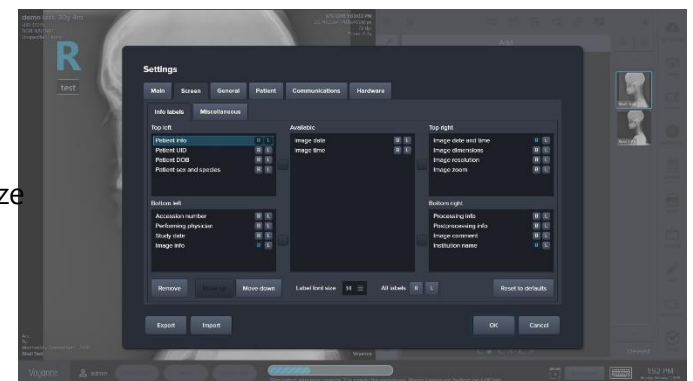
Only Admin users can access this menu



5.1.1 Main tab (Worklist layout): used to customize the main worklist layout in the software



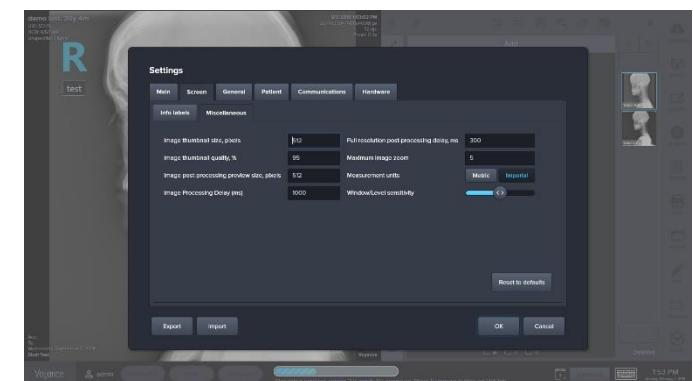
Export / import is used to export or import setting



5.1.2 Screen /info labels tab: use to customize What information to show in the different 4 corners of the image Screen. Labels font size and information order Could be customized as well.

5.1.3 Miscellaneous tab: used to control

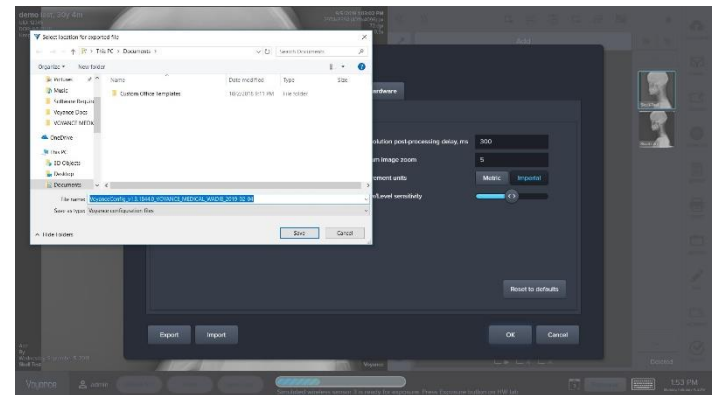
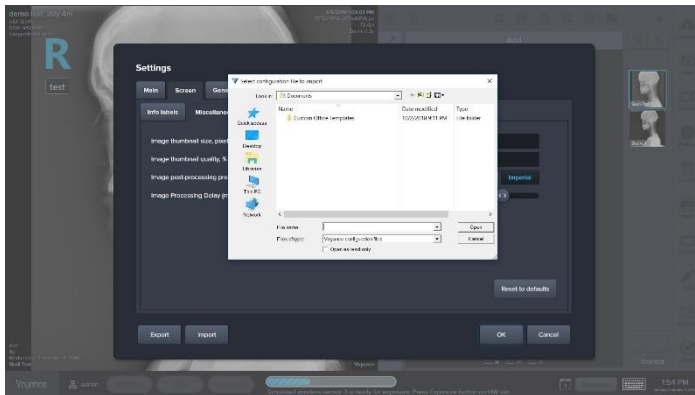
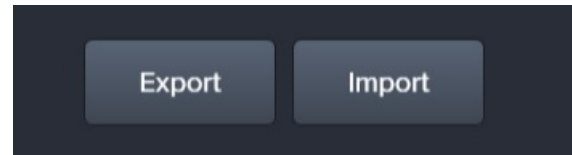
- Image thumbnail size
- Image thumbnail resolution
- Image post processing preview size
- Image delay
- Max. image zoom
- Setup the software measurement unit
- Window/level sensitivity





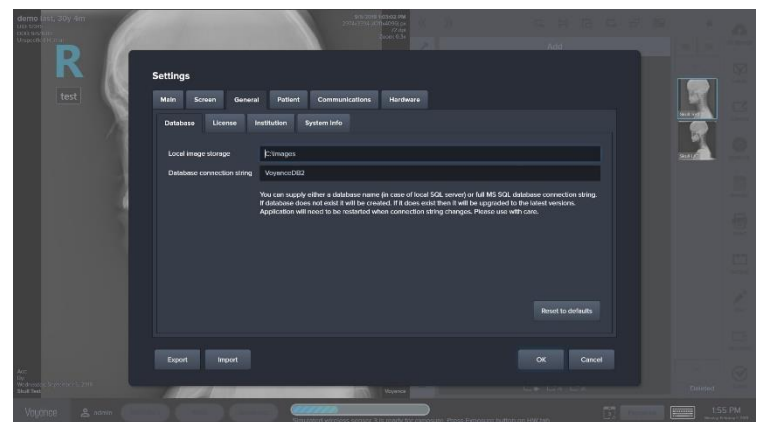
5.1.4 Export / Import:

- use the export icon to Export Setting of the software
- use the import icon to import Setting form a setting file



5.1.5 Database:

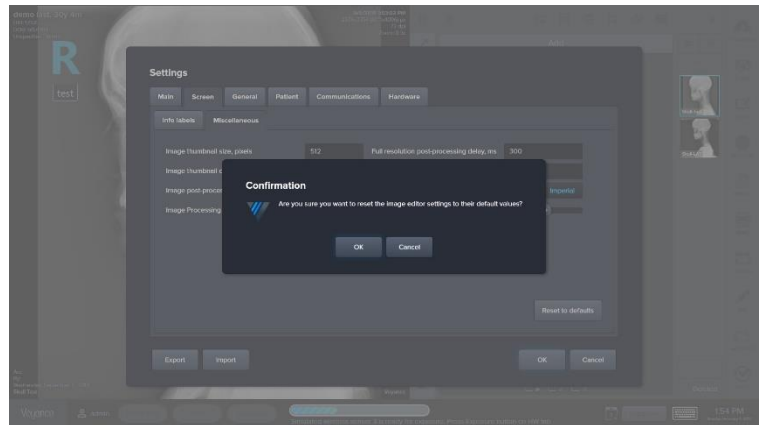
- Use Database tab to change the Storage images location.
- Connect with a new database



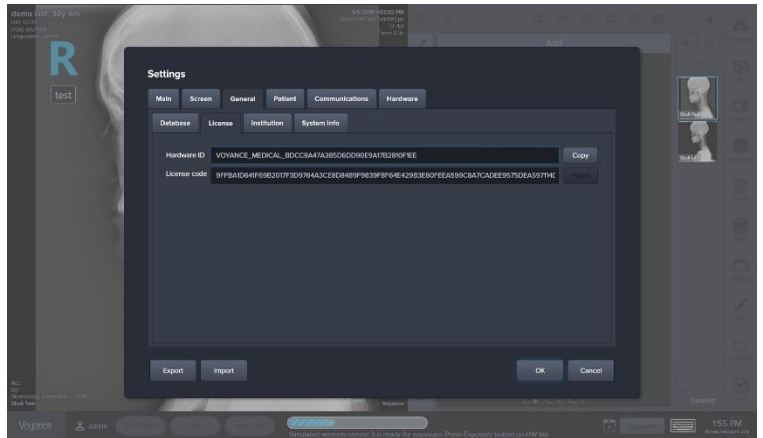
Make sure to click ok to save new setting.



Rest all will discard all changes set back software default setting.



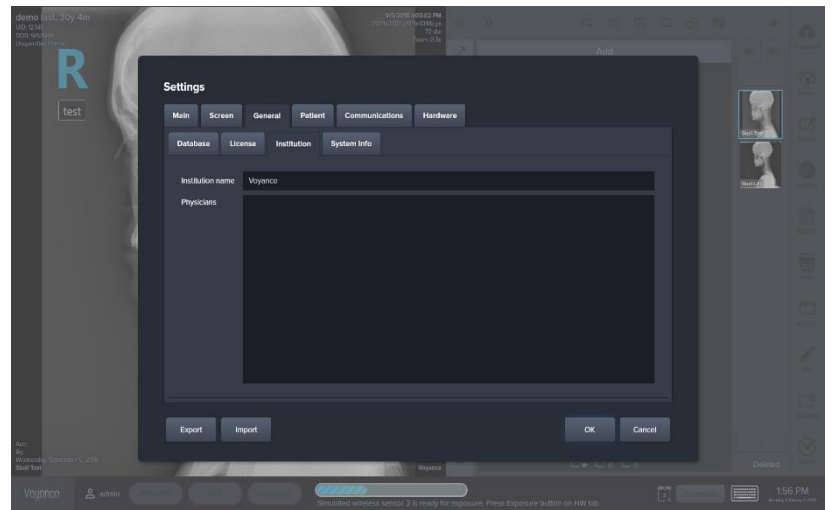
5.1.6 License Tab: provide information on The Hardware ID as well as changing the Software license.



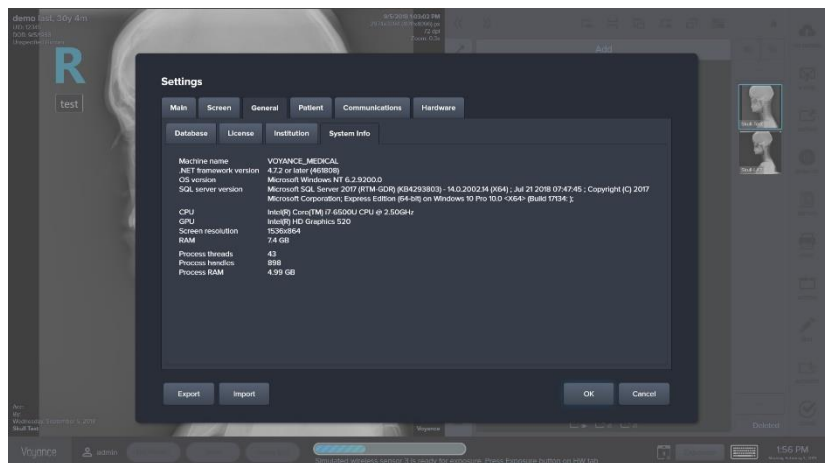
Changing the software license might lead to failure launching Voyance



5.1.7 Institution Tab: used to add institution name as well as the physician names



5.1.8 System information Tab: used to provide the workstation information as well as the voyance software version





5.1.9 Patient Tab: used to add patient body part and different views

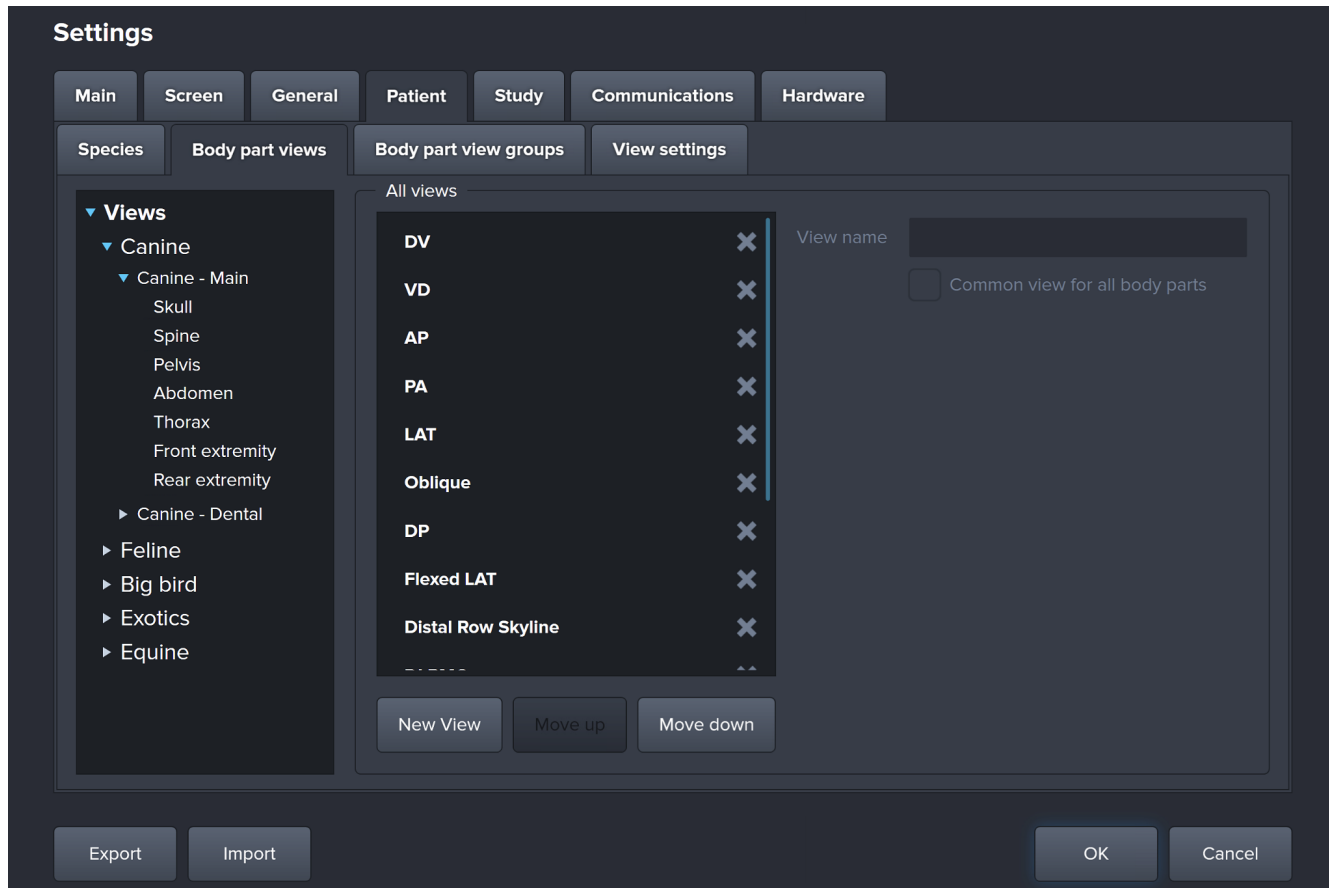
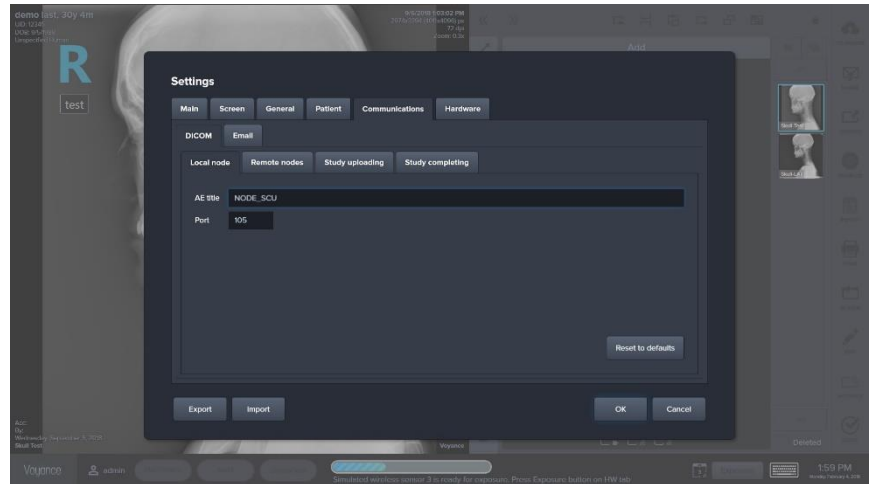


Image processing of the desired bodypart / view will assigned automatically



5.1.10 Communication / Dicom / Local Tab:

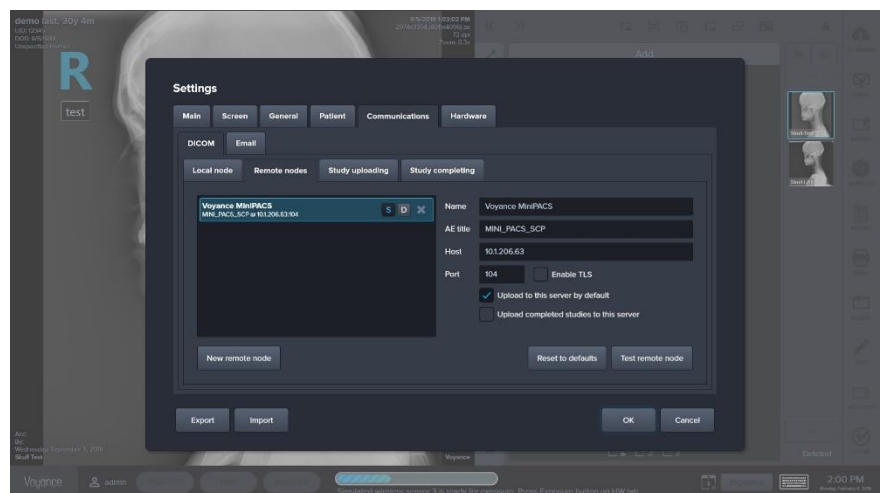
used to configure the local AE Title and Port number of the Acquisition workstation



5.1.11 Communication / Dicom / Remote node Tab: used to add the different Dicom destination nodes



AE Title, IP address and Port number of the Dicom node are required To be added

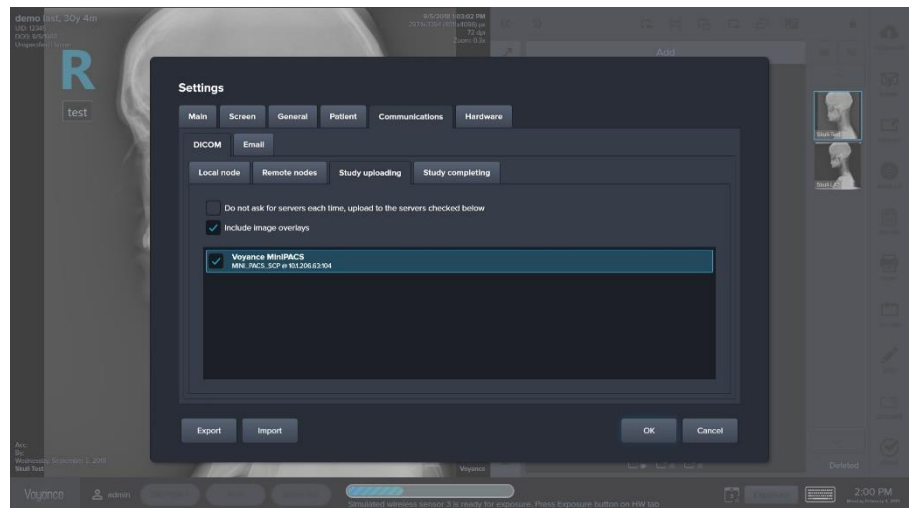


Multiple Dicom Node destination could be added



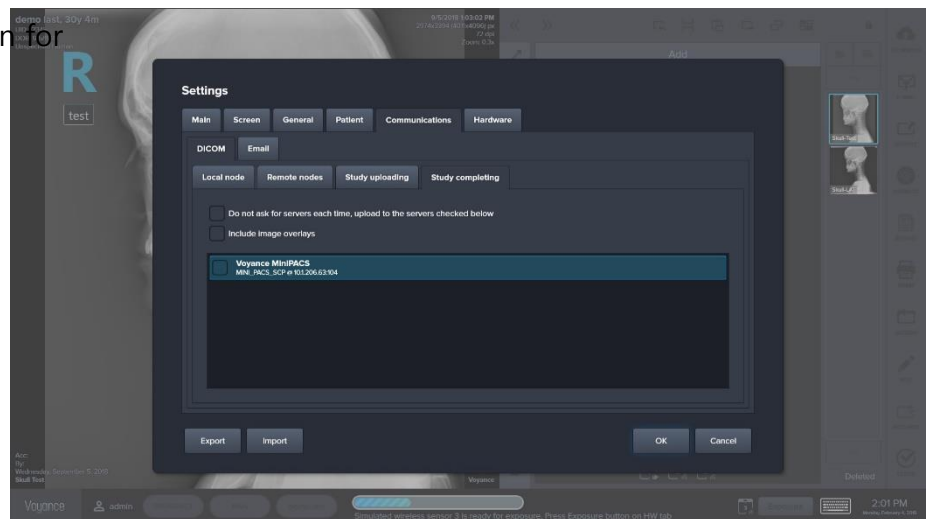
5.1.12 Communication / Dicom / Study

Uploading Tab: used to configure the Auto send to the Dicom Destination And image overlay information for suspended studies



5.1.13 Communication / Dicom / Study

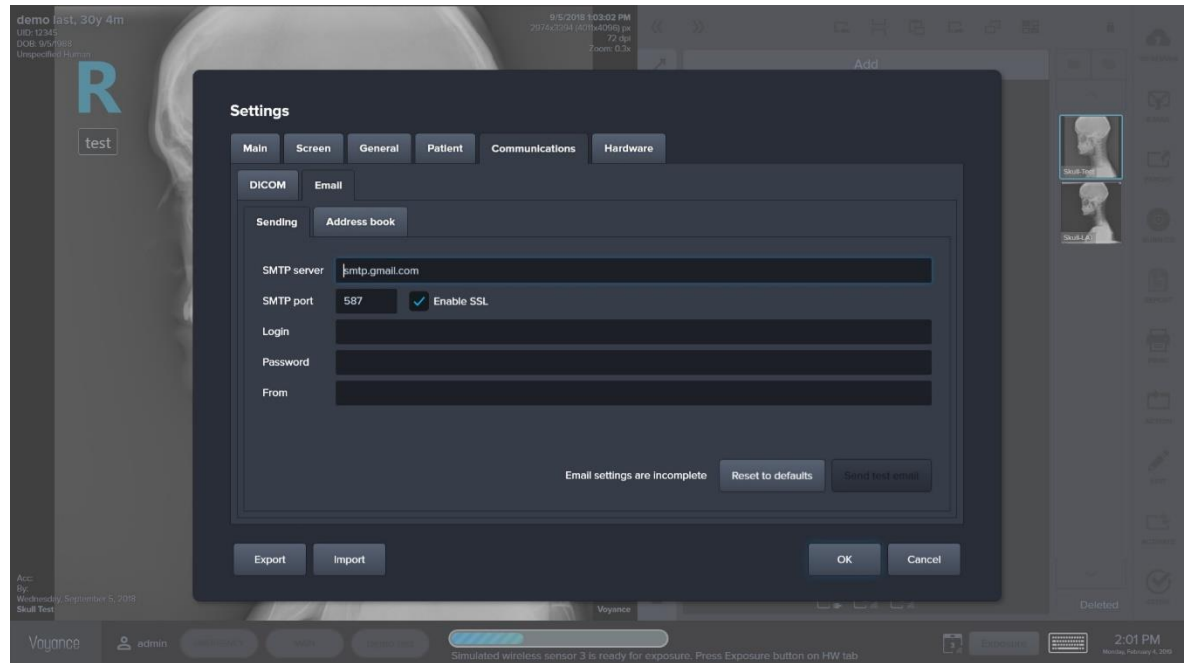
Completing Tab: used to configure the Auto send to the Dicom Destination And image overlay information for Completed studies





5.1.14 Communication / Dicom Email

Tab: used to configure sending through emails.

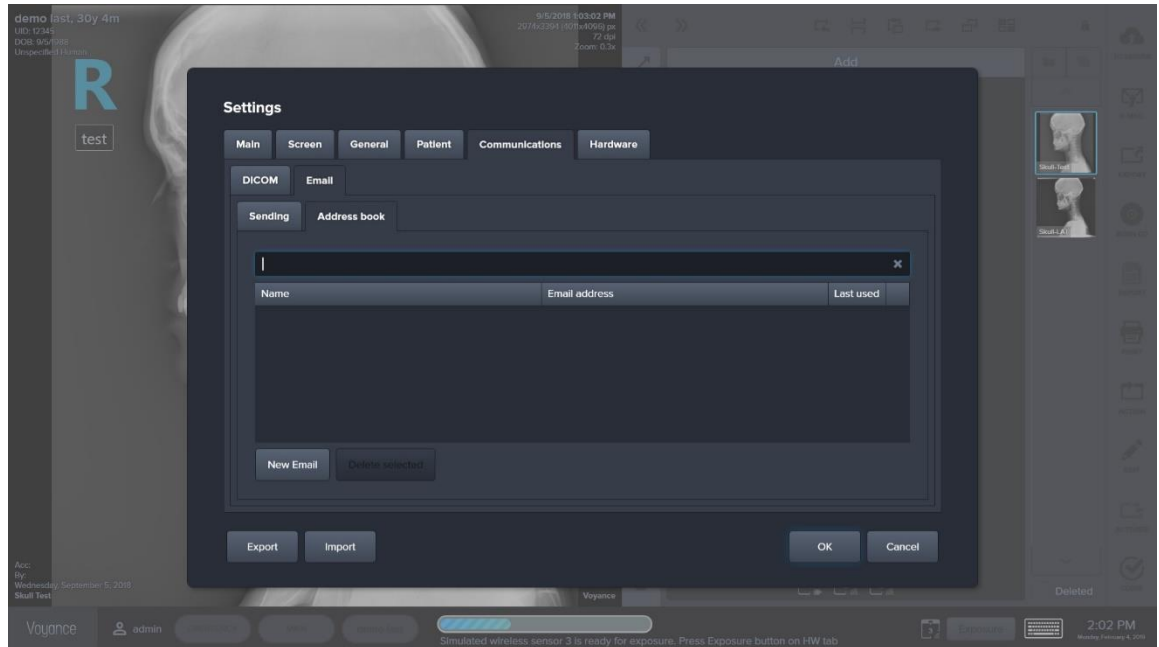


Emailed studies will be sent with anonymous information



5.1.15 Communication / Dicom

Address Book Tab: used to setup your email sending list

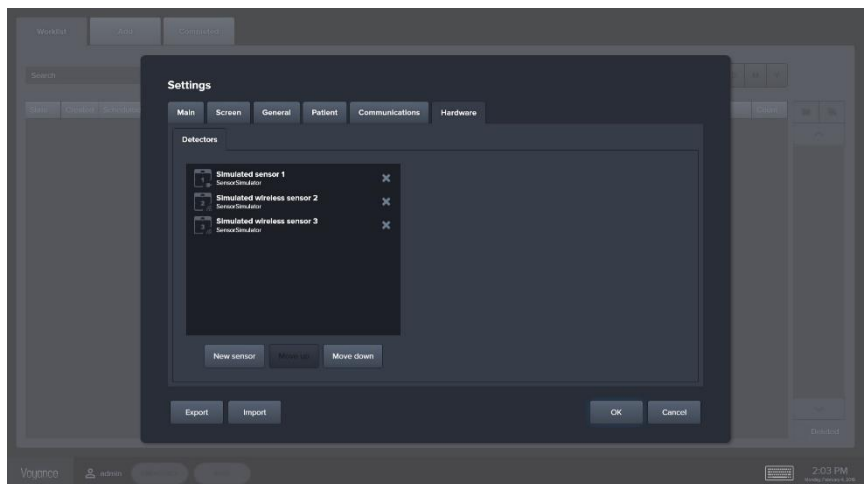


5.1.16 Communication / Hardware Tab:

used to add a new image acquisition sensors



Use the Hardware manual for hardware configuration



Failing on setting up the hardware sensor may lead to system malfunctioned



6. Glossary

Term	Explanation
AEC	Automatic Exposure Control
CR	Computed Radiography, using a phosphor plate to capture the X-Ray image and a digitizer to read it and send it to the workstation.
Collimation	Collimation is performed during exposure using the tube collimator, to expose only part of the full exposure field. The collimation area is used by the software to apply black borders. DR images are automatically cropped at the collimation borders.
Cropping	Selecting a rectangular area on an image and displaying only the contents of this area.
Dicom Destination	A destination is a device to which the studies are routed after they have been digitized.
DICOM	Digital Imaging and Communication in Medicine.
DR	Direct Radiography, using a digital image sensor to capture the X-Ray image and send it directly to the workstation.
EI	Exposure Index: measure of the detector response (on a linear scale) in a relevant image region of an image.



7. Terms & Explanations

Term	Explanation
Exposure type	An Exposure type is a set of parameters (concerning image processing, exposure options such as view position and cassette orientation, and collimation) which are by default used for a defined type of exposure. A number of Exposure types make up an Exam group.
HIPAA	Acronym for the Health Insurance Portability and Accountability Act of 1996. It is a set of rules to be followed by health plans, doctors, hospitals and other health care providers. It took effect on April 14, 2003.
License	A digital permit containing descriptions of rights that can be applied to one or more pieces of content.
Local database	Database stored on the hard disk of a workstation.
Marker	A marker behaves differently as compared to an annotation. It is always burnt onto the image when it is sent out by DICOM, even when GSPS is used.
Protocol code	A code that completely defines and identifies a specific exposure type. Protocol codes are imported from the RIS, and can be linked to exposure groups, exposures and exams that are displayed in the user interface. This way, an incoming protocol code can be "resolved" and the operator receives immediate feedback on the examination he needs to perform.
RIS	Radiology Information System.



APPENDIX 1



Patient data security

- It is the responsibility of the hospital to ensure that the patients' legal requirements are met and that the security of the patient records is:
 - ☐ maintained and tested,
 - ☐ audited,
 - ☐ Administered locally to cover risks from third party access and how the availability of the services is to be maintained in the event of disaster.

- Voyance software provided with different ways of access and privileges control in the software.
 - ☐ User authentication. The administrator can configure different user accounts. Each account consists of a user name and a password to access the system, login is used for user authentication and identification is required.
 - ☐ Node authentication, using certificates. Working with SSL (Secure Sockets Layer) allows secure communications on an insecure network. SSL is the security layer on top of TCP/IP.
 - ☐ Administrator logging. This implies logging to a setting and configurations of specific VOYANCE 'Areas', e.g. users privileges, Hardware configuration , Dicom Configurationsetc.
 - ☐ Software will log off automatically to the log in page if not used for few minutes (configured through the setting).
 - ☐ It is recommended to you use recommended Antivirus / Malware software using the workstation in a network environment (please contact voyance support for a list of recommended antivirus software)



Compliance

Voyance has been designed in accordance with the MEDDEV Guidelines relating to the application of Medical Devices and has been tested as part of the conformity assessment procedures required by 93/42/EEC MDD (European Council Directive 93/42/EEC on Medical Devices).

Voyance has been designed in accordance with the IEC 60601-1,

The workstation console is comply with the following safety standards:

- UL 1950, Third Edition.
- CAN/CSA 22.2 No. 950-95, Third Edition (cUL).

Voyance fully complies with the CE Directive 89/336/EEC and with the federal code of the United States, bearing on:

- Emission and immunity according to EN 60601-1-2, for emissions the equipment complies with EN 55011 class A (CISPR 11). This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
- Emissions according to 47 CFR part 15 subpart B, Class A. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.



Voyance llc.

15550 Rockfiled Blvd, B200, Irvine, CA 92618