

X-CUBE Series X+Assistant

X+Assistant

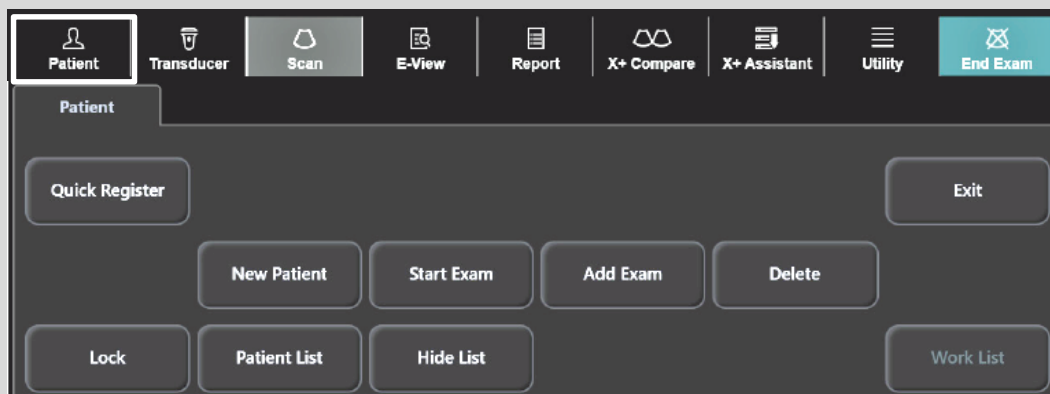
Simplifies your scanning process and shortens exam time by guiding the next sequence and automatically displaying the imaging modes, annotations, body patterns and measurement you've set up

Advantages

- Reduce the scanning time through reduce the key strock
- Suggest application guide for basic user

Easy Steps for X+Assistant

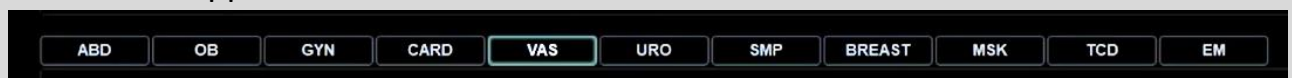
1 Touch the Patient on touchscreen



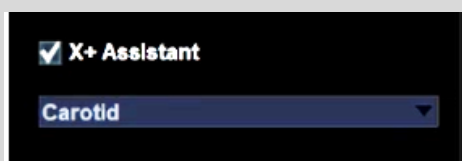
2 Fill in the patient ID and other information

If you not registration patient information you can not activate it.

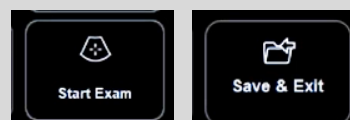
3 Choose an application



4 Check the X+Assistant box



5 Click the Start exam or Save & Exit



X-CUBE Series X+Assistant

7 The X+ Assistant screen appears on the display.
Press the P key to go to the next step

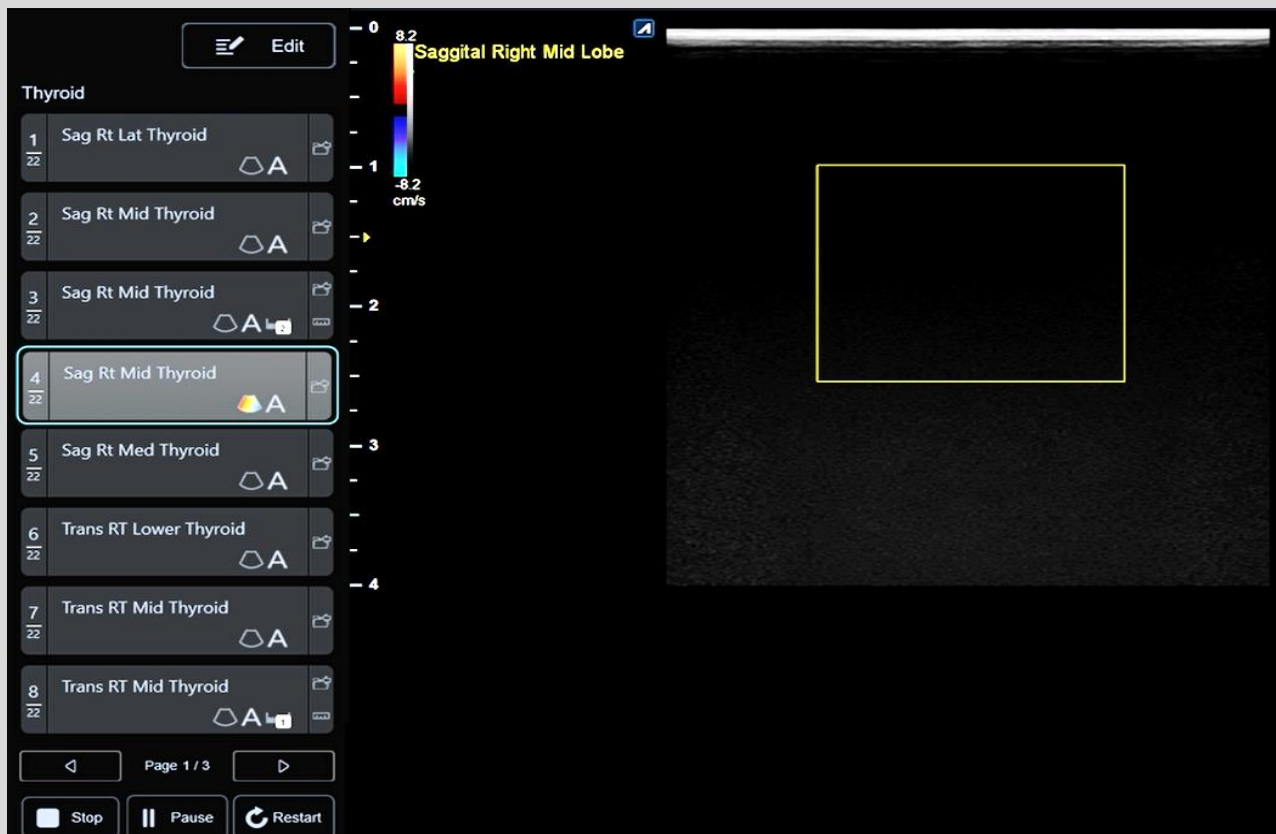
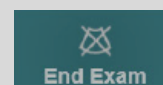


Figure 1. Activated X+Assistant display

8 Touch the End exam to finish the entire exam



In measurement mode, press the MEAS key to measure correctly.



When using dual mode, be sure to select off (not the default value) in the next operation so that the dual mode set in the previous step is not repeated.



X-CUBE Series X+Assistant

Advanced steps for X+Assistant



Figure 2. X+Assistant Protocol

X+Assistant Protocol Pause

Pause

Play

To pause or unpause the X+ Assistant, click Pause at the bottom of the X+ Assistant protocol. When paused, X+Assistant does not work and thumbnail images can be created.

X+Assistant Protocol Stop

Stop

To stop or restart the protocol, click Stop at the bottom of the X+ Assistant protocol. The Stop Protocol dialog box appears.

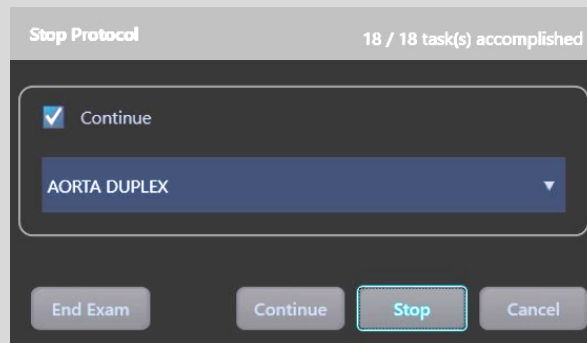


Figure 3. X+Assistant Stop dialog box

• Continue Check box:

If you select the checkbox, you can continue scanning the protocol selected from the protocol list below.

• End Exam:

Ends the exam and saves all images to the device.

• Continue:

After check the continue check box, you can activate selected X+Assistant protocol.

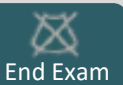
• Stop:

Stop the scan X+Assistant. Go back to non activate X+Assistant mode

If you want finish whole study,touch the end exam

• Cancel:

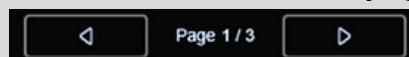
Restarts the scan with the current protocol.



X+Assistant Protocol Restart

Click the Restart, If you want to start it from the beginning

Move to next Task list page



Click the arrow icon to move the other task page

Back to Previous task & Go to a specific task

The exam will move on to the specific task, click the specific task

If you press the P key after selecting a specific task, it does not go to the step following the selected task. Move on to the next step of the original step.

X+Assistant Task Editor

X+Assistant Task Information

Task step
Total steps

Task Step:
Current Task Step

Total Step:
Provided by the protocol

Title of a protocol name

1 / 22	Task name	
2 / 22	Sag Rt Mid Thyroid	
3 / 22	Sag Rt Mid Thyroid	
4 / 22	Sag Rt Mid Thyroid	
5 / 22	Sag Rt Med Thyroid	

Completion mark

You can know whether an image is saved in the thumbnail by the blue color of the icon.

- Image saved in thumbnail
- Images are not saved in thumbnails

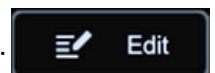
Even if the image stored in the thumbnail is deleted, the completion mark is not erased.

Displayed mode Icone

You can know which mode is being displayed by the mini icon.

Go to X+Assistant Task Editor

To edit the task order and details of a task, click the edit icon. It was located at the top of the task list.



Task

Protocol : Abdomen_ohn

▲ ▼ + -

Title : pancreas

▲ ▼ pancreas Clone

▲ ▼ Lt Lobe_S1 Clone

▲ ▼ Lt Lobe Clone

▲ ▼ Rt Lobe_IVC Clone

▲ ▼ Rt Lobe_PV Clone

▲ ▼ Rt Lobe_PV CF Clone

▲ ▼ Rt Lobe size Clone

▲ ▼ Rt Kidney subcostal Clone

▲ ▼ Rt Kidney size Clone

▲ ▼ Rt Kidney_CF Clone

▲ ▼ Lt Kidney vol Clone

▲ ▼ Lt Kidney_CF Clone

▲ ▼ Spleen_size Clone

Create

Imaging

Mode

CF

M

PW

CW

PDI

Live Dual

Panoramic

CEUS

3D

TDI

Dual

On

HAR/INV

Default

Color Baseline

Default

Virtual

Default

PW Baseline

Default

Quad

Default

Depth

13.8 cm

Color/PW Steer

Default

Full SRI

Default

CEUS Timer

Default

Spatial Compounding

Default

Simultaneous

Default

SV Size

Default

Comment

8 / 900

Rt. Lobe

Location

Left Top

Color

Yellow

Size

Index 6

Body Pattern

Location

Left Top

Select

Clear

Measurement

Application

Abdominal

Fetus

Default

Measurement Items

#1: [B] Renal Vol

Side

Default

#2:

Location

Default

#3:

Apply

New

Clone

Remove

Undo

Figure 4. Activated X+Assistant Task edit page

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X+Assistant Task Editor

X+Assistant Task Editor Information

Task

Return

Protocol : Abdomen_ohn

▲

▼

+

-

Title : Task name : It can edit task name here

▲ ▼ pancreas  Clone

▲ ▼ Lt Lobe_S1  Clone

▲ ▼ Lt Lobe  A Clone

▲ ▼ Rt Lobe_IVC  Clone

▲ ▼ Rt Lobe_PV  Clone

▲ ▼ Rt Lobe_PV CF  Clone

▲ ▼ Rt Lobe size  A Clone

▲ ▼ Rt Kidney subcostal  Clone

▲ ▼ Rt Kidney size  A Clone

▲ ▼ Rt Kidney_CF  Clone

▲ ▼ Lt Kidney vol  A Clone

▲ ▼ Lt Kidney_CF  A Clone

▲ ▼ Spleen_size  Clone

Create: It can make a new task

Imaging : Displayed mode X+Assistant setting option list

Mode

☐ CF
☐ Live Dual
☐ M
☐ Panoramic
☐ PW
☐ CEUS
☐ CW
☐ 3D
☐ PDI
☐ TDI

Dual

On ▼

HAR/INV

Default ▼

Quad

Default ▼

Depth

13.8 cm ▼

Spatial Compounding

Default ▼

Comment 8 / 900

Rt. Lobe

Location

Left Top ▼

Color

Yellow ▼

Size

Index 6 ▼

Measurement

Application

Abdominal ▼

Fetus

Default ▼

Side

Default ▼

Location

Default ▼

Apply

New

Clone

Remove

Undo

• **Move Task step:** ▲ ▼, ▼ ▲
Moves the selected task up/down one step.

• **Add new task:** New +
Adds a new task under the selected task.

• **Copy task:** Clone
Copy the selected task.

• **Remove task:** Remove -
Delete the selected task.

• **Undo:** Undo
Undo the last performed function.

• **Back to the X+Assistant display mode:** Return
Edit the X+ Assistant Editor page and return to the X+ Assistant page.

• **Save task protocol:** Apply
Save your task setting changes.

X+Assistant Task Editor

Edit X+Assistant Task

Imaging

Mode

☐ CF
 ☐ M
 ☐ PW
 ☐ CW
 ☐ PDI

☐ Live Dual
 ☐ Panoramic
 ☐ CEUS
 ☐ TDI

Dual

On

HAR/INV

Default

Color Baseline

Default

Virtual

Default

PW Baseline

Default

Quad

Default

Depth

13.8 cm

Color/PW Steer

Default

Full SRI

Default

CEUS Timer

Default

Spatial Compounding

Default

Simultaneous

Default

SV Size

Default

Comment

8 / 900

Rt. Lobe

Location

Left Top

Color

Yellow

Size

Index 6

Body Pattern

Location

Left Top

Select

Clear

Measurement

Application

Abdominal

Fetus

Default

Side

Default

Location

Default

Measurement Items

#1 : [B] Renal Vol

#2 :

#3 :

Apply

New

Clone

Remove

Undo

1 Check the display mode check box

2 Combine the display settings you want to display

Default: When default is selected, it operates the same as the previous task setting.

Select parameter off if you don't want the same settings to be made in the next setting.

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X+Assistant Task Editor List

X+Assistant Task editor customization option list

Mode
2D
CF (Color Doppler)
M (M - Mode)
PW (Pulse Wave)
CW (Continue Wave)
PDI (Power Doppler Imaging)
Live Dual
Panoramic
CEUS (Contrast-Enhanced Ultrasound)
TDI (Tissue Doppler Imaging)

Parameter
Dual On/off/default
Quad On/off/default
HAR/INV HAR/INV/Normal/default
Depth 1 - 40 cm
Spatial Compounding 0 - 3
Color Baseline -100 - +100
Color/PW Steer -20 - + 20
Simultaneous On/off/default (Single mode)
Virtual On/off/default (Single mode)
Full SRI 0 - 5
SV Size 0.5 – 11.0 mm
PW Baseline -8 - +8
CEUS Timer On/off/default

Body pattern
Location Left/Right Top, Left/Right Bottom
Select Probe angle, Probe Size

Comment
Location Left/Right Top, Left/Right Bottom
Color White, Yellow, Green, Orange
Size Text size 1-10

Measurement
Application All Application
Measurement Item All MEAS items provided by Application
Side Lt, Rt
Location Prox/Mid/Dis
Fetus A – D



You can see this list on the Task Editor page.

X+Assistant Protocol Editor

✦ X+ Assistant Protocol consists of a set of tasks.

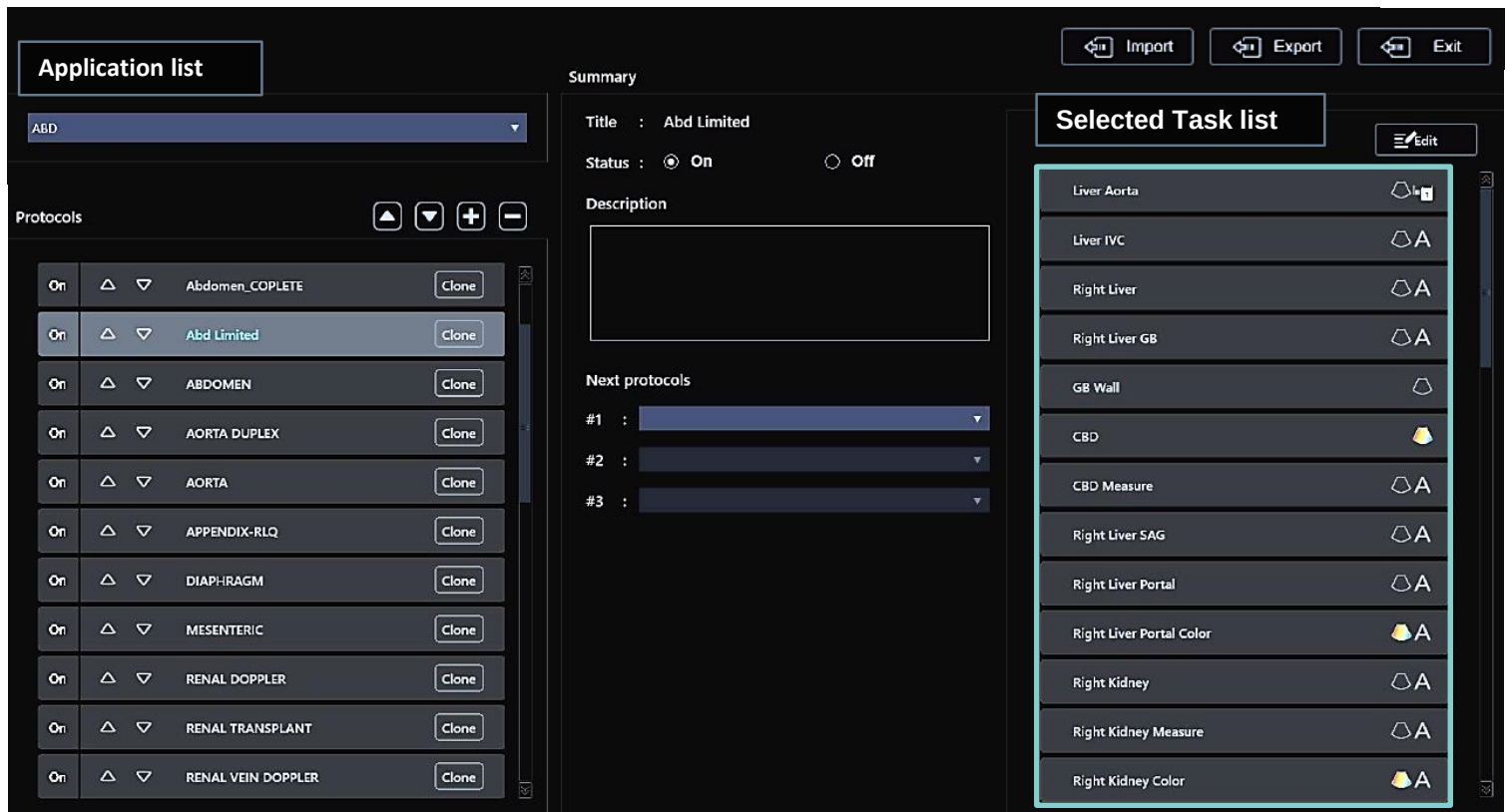


Figure 5. Activated X+Assistant Protocol Editor

1 Touch the X+Assistant on touch screen



 This mode can only be used with an unactivated X+assistant. When using the X+Assistant, you must stop or end exam.

2 Choose an application. A list of selected application protocols is shown below

3 To change the protocol name, double-click the item to be changed in the protocol list.



4 Click the Exit to finish the set protocol.



X+Assistant Protocol Editor

X+Assistant Manager information

Exam

ABD

Protocols

Status	Move	Protocol Name	Action
On	△ ▽	Abdomen_COUPLE	Clone
On	△ ▽	Abd Limited	Clone
On	△ ▽	ABDOMEN	Clone
On	△ ▽	AORTA DUPLEX	Clone
On	△ ▽	AORTA	Clone
On	△ ▽	APPENDIX-RLQ	Clone
On	△ ▽	DIAPHRAGM	Clone
On	△ ▽	MESENTERIC	Clone
On	△ ▽	RENAL DOPPLER	Clone
On	△ ▽	RENAL TRANSPLANT	Clone
On	△ ▽	RENAL VEIN DOPPLER	Clone

Summary

Title : Abd Limited

Status : ☒ On ☐ Off

Description

Next protocols

#1 :

#2 :

#3 :

• **Move Task Protocol:** △ ▽, ▲ ▽
Moves the selected task up/down one step.

• **Add new Protocol :** 
Adds a new task under the selected task.

• **Copy task:** 
Copy the selected task.

• **Remove Protocol :** 
Delete the selected task.

• **Protocol activate & Deactivate:** 
Set a protocol to be seen or hidden by checking On or Off.
You can check if the protocol is hidden on the Registration page.

• **Edit Protocol title name** 
Double-click the protocol name

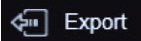
• **Description:**
Write an explanation of the protocol

• **Next Protocols:**
Select the next protocol to continue after a protocol of your 1st 2nd 3rd choice.
You can check it on continue the exam with the selected protocol by clicking continue check box.

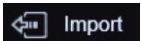
X+Assistant Import & Export

❏ X+Assistant Protodol can be imported or exported to XCUBE device

Export

- 1 Insert the media (USB, HDD) to store the X+ Assistant protocol.
- 2 Touch X+ Assistant on the touchscreen. The X+ Assistant Manager page appears. 
- 3 Click Export. The Export dialog box appears. (Figure 7) 
- 4 Select the media on which the protocol is stored from the list.
- 5 To create a new protocol name, select Create new directory and enter a new protocol name. or select the protocol directory if the protocol name you want is already on the media.
- 6 Select the protocol to export from the Protocols list.
- 7 Click OK.
The selected protocol is saved to the media. This data can be exported to other XCUBE systems

Import

- 1 Follow steps to export step 1.2.
- 2 Click the Import. The Import dialog box appears. (Figure 6) 
- 3 Select the media on which the protocol is stored from the list.
- 4 Select a protocol from the Folder list. When a folder is selected, all protocol within the folder will be displayed it.
- 5 Select the protocol to load.  To overwrite an existing protocol, select the Overwrite Protocol(s) checkbox.
- 6 Click OK. The selected protocol is saved in the system.
You can see the protocol in the Protocols list on the X+ Assistant Manager page.

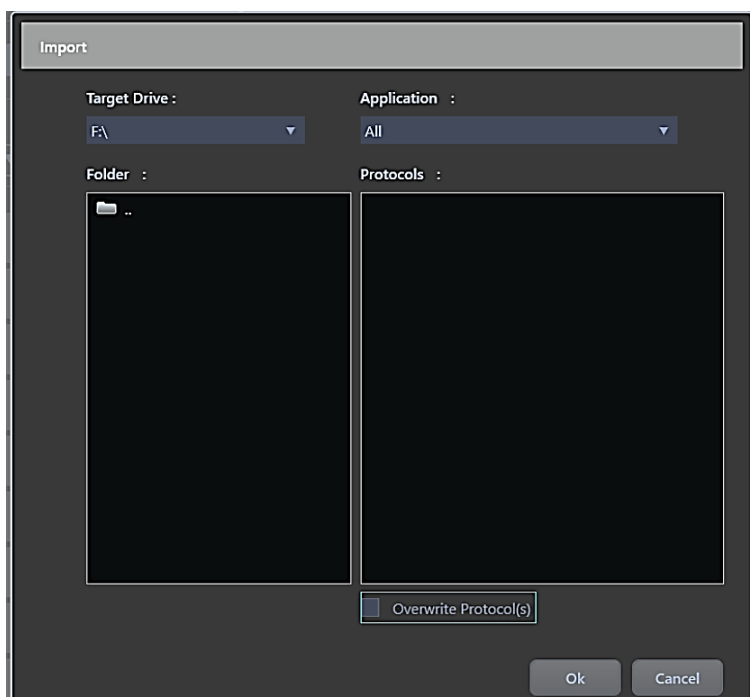


Figure 6. Import dialog box

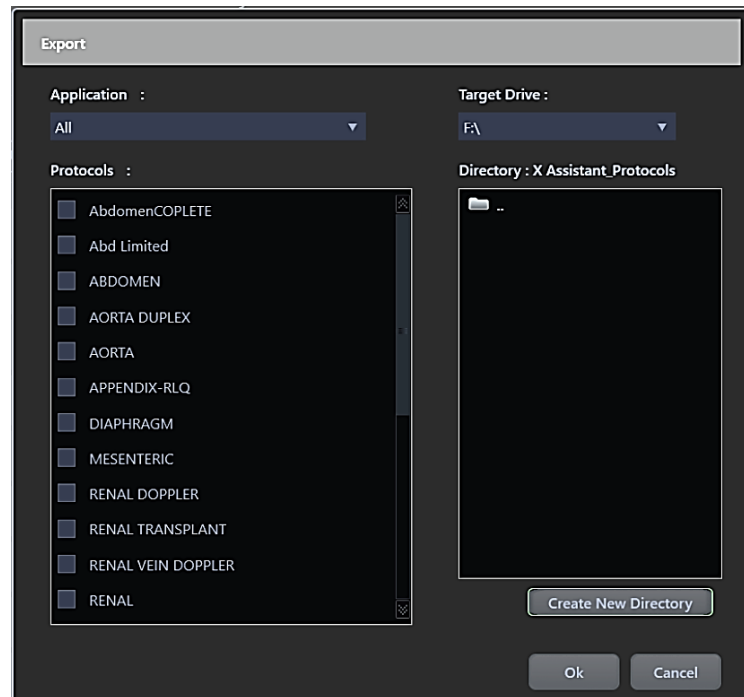


Figure 7. Export dialog box