



The CANON X-ray Digital Imaging [CXDI] Control Software NE



The word "Welcome" is written in a large, white, bold, sans-serif font. It is centered and overlaid on a series of vibrant, overlapping brushstrokes in shades of purple, blue, pink, orange, and yellow. The brushstrokes have a dynamic, painterly quality with visible texture and varying lengths.

Objectives

At the end of this session, you will be able to;

- Log into the laptop successfully
- Log into the CXDI control software successfully
- Familiarize yourselves with the CXDI interface from the pictorial viewpoint
- Realize how the workflow on the CXDI control software is like
- Various ways of registering patients
- Know what the toggle tab is use for
- Identify ready detector and selected APR (Anatomical Program)
- Know how to restart the CXDI control software, restart the laptop, and shutdown the laptop

Outline

- Logging in
 - Laptop
 - CXDI control software NE
- Procedure
 - Patient data entry/registration
 - Starting exam
 - APR selection
 - Ready detector, selected APR and exposure
 - Image Acquisition
 - Ending exam
- Toggle tab
- Restarting CXDI/Shutting down

Logging in





Canon



User Name : operator



Log In

Password : operator

CXDI Control Software NE

Version 2.17.0.22 Copyright by CANON INC, 2020



Toggle tab

Procedure

Using Chest PA as reference Examination;

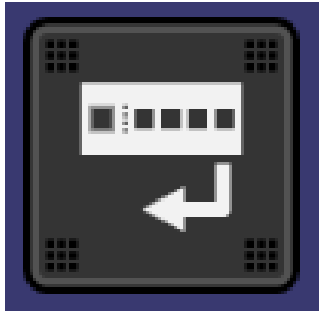
- Enter patient data
- Select “**Start Exam**”
- Chest PA protocol may be automatically selected, this can be changed to any desired protocol from the protocol list.
- Position the patient for the examination
- Give breathing instructions to patient
- Prepare and expose using the exposure button
- Check image quality, do a “**retake**” or “**repeat**” if quality is poor
- Go to “**End Exam**” if image is of good quality

Patient Data Entry/Registration

Patient registration can be done in **three ways**;

1. Using Modality Worklist (MWL) by registering via CAD4TB platform
2. Manually from CXDI NE
3. Using a barcode scanner

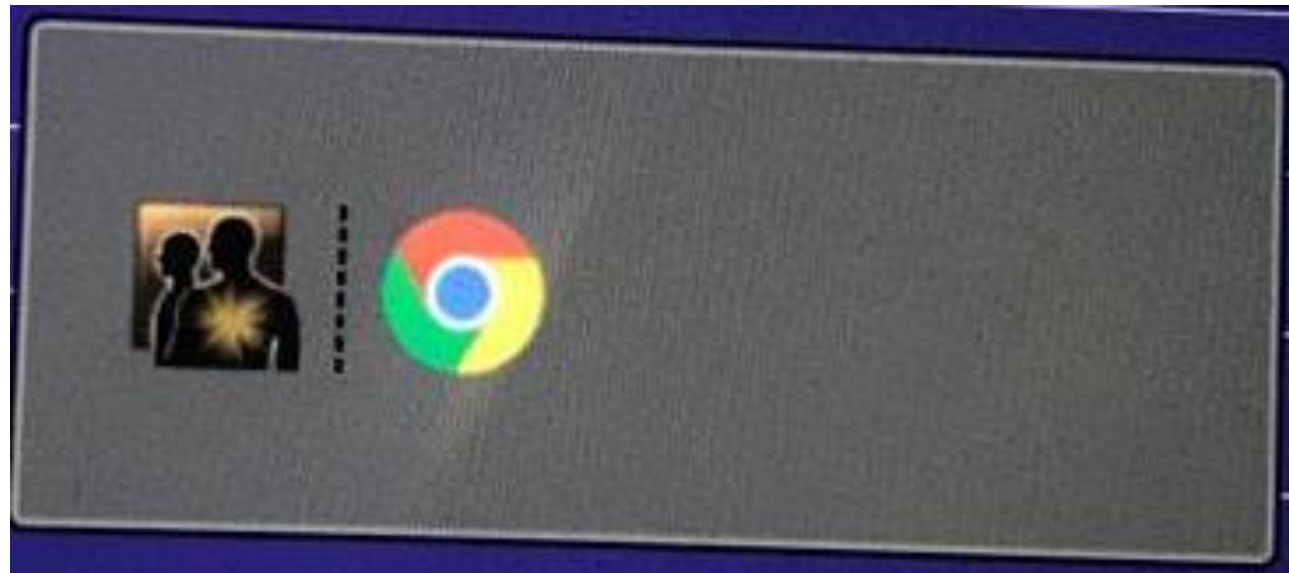
1. Patient Registration in MWL



Not Highlighted

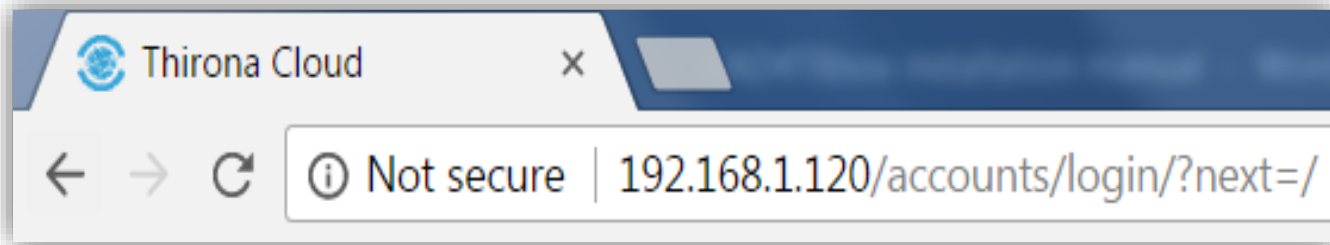
TOGGLE TAB

A suspending window showing on the CXDI interface

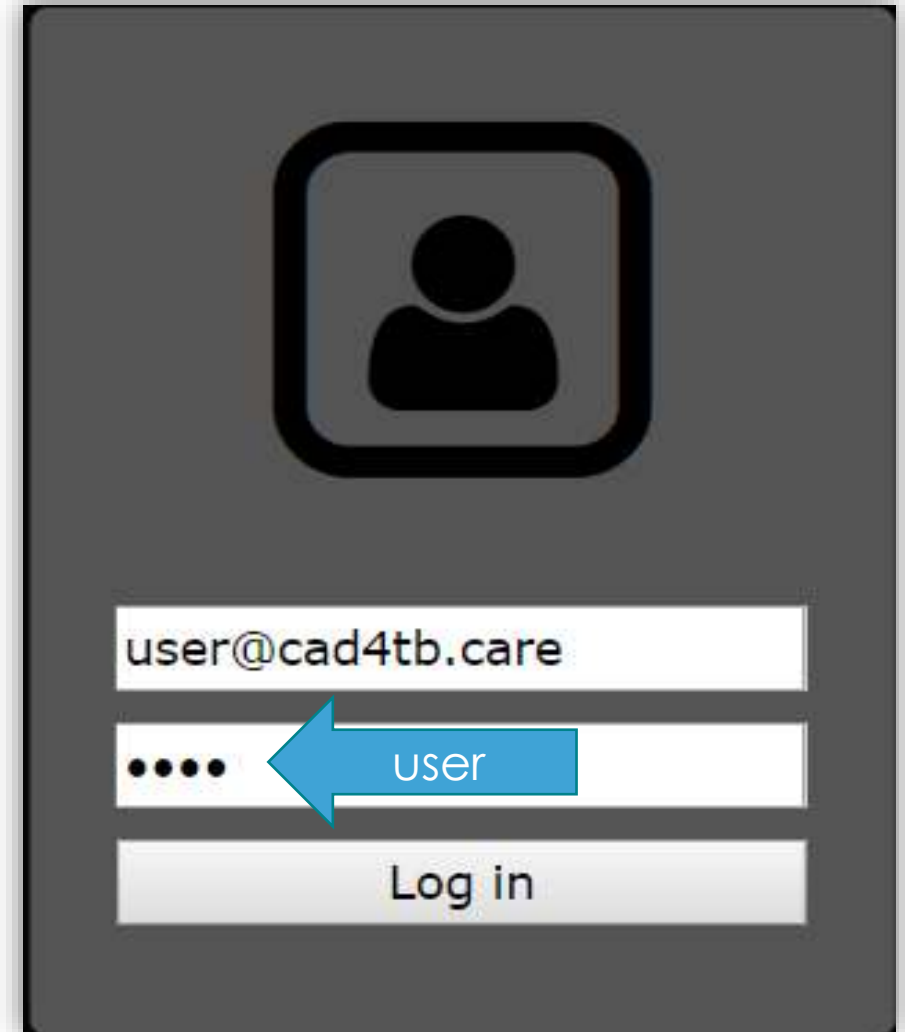


Highlighted

CAD4TB Thirona Interface





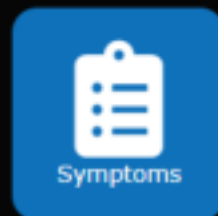
IP address of CAD4TB box



A login interface for the CAD4TB Thirona system. It features a large black silhouette of a person inside a rounded square frame at the top. Below this, there are two input fields: the first contains the email 'user@cad4tb.care', and the second contains masked characters '....'. A blue arrow points from the text 'user' to the password field. At the bottom, there is a 'Log in' button.

thirona 

 Administrator 






thirona
Registration X
Administrator
?

Showing 1 to 7 of 7 entries

Search:

ID	Name	D.O.B.	Gender
010100000001	test test	1988-09-08	Male
020100000001	GDF TRIAL 1	2009-03-02	Male
020100000002	GDF TRIAL 2		Female
020100000003	office test	2010-11-01	Female
020100000004GDF Again	1998-11-16	
020200000001	Frank Vijn	1994-09-01	Female
020200000002	Oldelft Delft	2008-09-10	Other

Offline

thirona  Registration  New 

New Patient

Person


First name*	Middle name	Last name*
<input type="text" value="GDF"/>	<input type="text"/>	<input type="text" value="PROJECT"/>
Gender	Date of Birth	
<input type="text" value="Male"/>	<input type="text" value="2000-01-01"/>	


Address

Address	City	Country
<input type="text"/>	<input type="text"/>	<input type="text"/>
Phone number		
<input type="text"/>		

Other

Cluster number*	Machine number*
<input type="text" value="1"/>	<input type="text" value="1"/>



Offline 

2. Patient Registration From CXDI

EXAM

PAST

Worklist

Manual

On Line

Name: GDF PROJECT

Birth: 01 / 01 / 2000

★ ID: 123

Sex: ☒ Male ☐ Female ☐ Other

Set →

Clear

Recent Patient List

Name	Birth	Sex	Patient ID
------	-------	-----	------------

Select All Studies

0 Results





10:11 AM
11/8/2021

Emergency

Start Exam


3. Patient Registration using Barcode



thirona  Registration  GDF PROJECT  Administrator 

Patient Information

PatientID	010100000002
Name	GDF PROJECT
Gender	Male
Date of birth	2000-01-01

A barcode with the number 010100000002 printed below it. The entire barcode area is enclosed in a white rounded rectangle.

Address information

Address	
City	
Country	
Phone Number	

Other information

ID Other	
Registered	2021-11-08 12:29
Last modified	2021-11-08 12:44

Quick actions

-  New patient
-  Edit patient
-  Print barcode
-  Symptoms
-  XRay-AI
-  Report

Offline 

All the three options will bring you here

EXAM

PAST

Worklist

Manual

Examination

On Line

Search for Study List

Patient ID

Name

Accession No.

Study Status : ☒ All Exam ☐ New Exam ☐ Pending Exam ☐ Restarted Exam

Clear

Study List

Accession No.	Study DateTime	Patient ID	Name	Study Status
11/8/2021 3:10:4	020100000003		office test	
11/8/2021 3:10:	020100000004		...GDF Again	
11/8/2021 3:10:	010100000002		GDF PROJECT	
11/8/2021 3:10:4	010100000003		GDF ONE PROJECT	
11/8/2021 10:26:	123		GDF PROJECT	Pending
11/2/2021 11:56:	010100000001		test test	Pending
11/1/2021 3:21:4	1237		Nicholas	Pending
10/28/2021 6:5	020200000002		Oldelft Delft	Pending
10/27/2021 6:31	020200000001		Frank Vijn	Pending

Refresh List

Search Conditions

20 Results

4:17 PM
11/8/2021

Emergency

Start Exam

Start Exam

EXAM

PAST

Worklist

Manual

On Line

Name :

GDF PROJECT

Set →

Birth :

01 / 01 / 2000

Clear

★ ID :

123

Sex : ☒ Male ☐ Female ☐ Other

Recent Patient List

Name	Birth	Sex	Patient ID
------	-------	-----	------------

When Patient data has been entered,
Start Exam can be selected.

Select All Studies

Delete

0 Results

10:11 AM
11/8/2021

Emergency

Start Exam

EXAM

PAST

Worklist

Manual



Search Options

Clear

Search by Body Part

Search by Category

Frequently Used Protocols

CHEST LAT
DelftLight

CHEST AP
DelftLight

CHEST PA
DelftLight

CHEST CHILD AP
DelftLight

CHEST CHILD LAT
DelftLight

CHEST CHILD PA
DelftLight

QA 70 kV
DelftLight

QA 90 kV
DelftLight

Recently Used Protocols

CHEST LAT
DelftLight

CHEST AP
DelftLight

CHEST PA
DelftLight

CHEST CHILD AP
DelftLight

CHEST CHILD LAT
DelftLight

CHEST CHILD PA
DelftLight

QA 70 kV
DelftLight

QA 90 kV
DelftLight

Select by Workspace

On Line

GDF PROJECT

Birth : 1/1/2000

Age :

ID : 123

Sex : Male

Edit

^

i

^

v

Add Study


Delete


Cancel

Start Exam

EXAM

PAST





Worklist

Manual

On Line

^

CHEST PA

DelftLight

CHEST AP

DelftLight

CHEST LAT

DelftLight

CHEST

QA

Pelvis

RibCage

Skull

Spine

UpperExtremity

8

9

10

v

CHEST CHILD PA


DelftLight

CHEST CHILD AP

DelftLight

CHEST CHILD LAT

DelftLight



GDF PROJECT

Birth : 1/1/2000

Age :

ID : 123

Sex : Male

Edit

^

CHEST PA

DelftLight

CHEST LAT

DelftLight

CHEST AP

DelftLight

^

v




Add Study



Delete

Cancel

Start Exam

APR SELECTION

EXAM PAST   Ready CHEST PA EasyDR 3I  125 kV 100 ms 100.0 mA 1.0 mAs 



Worklist Manual Examination   On Line

Patient ID : 123
Patient Name : GDF PROJECT

KVP :
Exposure Time :
X-ray Tube Current :
mAs :

GDF PROJECT
Birth : 1/1/2000
ID : 123 Sex : Male Edit


The default protocol is highlighted.
Select another protocol with one click if desired.

CHEST PA DelftLight 
CHEST LAT DelftLight 
CHEST AP DelftLight 

Workspace Sort Unselect Edit Exam
Image Processing Measurement Annotation
Tool 2 Suspend Exam Send to Storage Cancel

Accession No :
Acquisition Time :
Total Exposure Time : 0msec
Total DAP(mGycm2) : 0mGycm2
Total Absorbed Dose(mGy) : 0mGy
Total Air Kerma(mGy) : 0mGy
Free HDD Space : 186988MB

DAP(mGycm2) :
Absorbed Dose(mGy) :
Air Kerma(mGy) :
REX :
EI :
DI :



Ready Detector, Selected APR & Exposure



The screenshot displays the DELFT IMAGING software interface. At the top, a status bar shows 'Ready' and technical details: 'CHEST PA', 'EasyDR', '3I', '125 kV', '100.0 mA', '1.0 mAs'. Below this, a navigation bar includes 'EXAM', 'PAST', 'Worklist', 'Manual', and 'Examination'. The main area on the left shows patient information: 'Patient ID : 123' and 'Patient Name : GDF PROJECT'. A central white box contains instructions for the procedure:

- Position the patient in front of the bucky
- Close the X-Ray compartment while giving breathing instructions
- Press exposure button until exposure is finished

Below the instructions are three diagrams labeled A, B, and C, showing different patient positioning techniques. To the right, a panel displays the selected exam: 'CHEST PA' (highlighted in green), 'CHEST LAT', and 'CHEST AP'. Below this, there are buttons for 'Workspace Sort', 'Unselect', 'Edit Exam', 'Image Processing', 'Measurement', 'Annotation', 'Suspend Exam', 'Send to Storage', and 'Cancel'. The bottom left corner shows acquisition statistics: 'Accession No.', 'Acquisition Time', 'Total Exposure Time : 0msec', 'Total DAP(mGycm2) : 0mGycm2', 'Total Absorbed Dose(mGy) : 0mGy', 'Total Air Kerma(mGy) : 0mGy', and 'Free HDD Space : 186988MB'.

Exposure Button

A. Resting stage

B. Prepared stage

C. Exposure stage

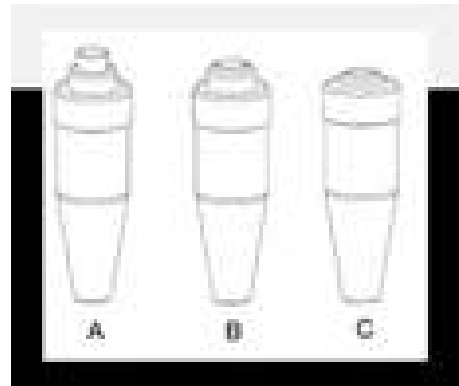


Image Acquisition

EXAM

PAST

Worklist

Manual

Examination

Not Ready

Patient ID : 1223

Patient Name : ETORNAM



KVP :
Exposure Time :
X-ray Tube Current :
mAs :

Info

ETORNAM

Birth : 1/1/2000

ID : 1223

Sex :

Edit

CHEST AP 1

DelftLight

CHEST AP 1

DelftLight

Workspace Sort

Unselect

Edit Exam

Image Processing

Measurement

Annotation

Suspend Exam

Send to Storage

End Exam

Accession No. :

Acquisition Time : 6:35:14 PM

Total Exposure Time : 0msec

Total DAP(mGycm2) : 0mGycm2

Total Absorbed Dose(mGy) : 0mGy

Total Air Kerma(mGy) : 0mGy

Free HDD Space : 186989MB

DAP(mGycm2) : --

Absorbed Dose(mGy) : --

Air Kerma(mGy) : --

REX : 532

EI : 310

DI : --

End Exam

EXAM PAST Not Ready

Worklist Manual Examination

Patient ID : 1223
Patient Name : ETORNAM

Exposure Time :
X-ray Tube Current :
mAs :

KVP :

Info ETORNAM
Birth : 1/1/2000
ID : 1223 Sex : Edit

CHEST AP 1 DelftLight

CHEST AP 1 DelftLight

HQ

Workspace Sort Unselect Exam

Image Processing Measurement Annotation

Tool 2 Suspend Exam Send to Storage End Exam

After Exposure the image is displayed.
The Chest PA protocol contains a miniature thumbnail and the next protocol is activated.

If the image is okay press **"End Exam"**.

Accession No :
Acquisition Time : 6:35:14 PM
Total Exposure Time : 0msec
Total DAP(mGycm2) : 0mGycm2
Total Absorbed Dose(mGy) : 0mGy
Total Air Kerma(mGy) : 0mGy
Free HDD Space : 186989MB

DAP(mGycm2) : --
Absorbed Dose(mGy) : --
Air Kerma(mGy) : --
REX : 532
EI : 310
DI : --





CXDI Restart/Shutdown



EXAM

PAST





Worldlist

Manual

Offline

Search for Study List

Name

Patient ID

Accession No.

Study Status

All Exam

New Exam

Pending Exam

Restarted Exam

Clear

Study List

Study DateTime	Patient ID	Name	Sex	Birth	SPS Description	Accession No.	Study Status
07-04-2021 08:49:10	23KPO	Nicholson Setor		01-01-2000			Pending
01-04-2021 15:01:05	123	USHERVIN MOORE	Male	02-07-1989			Pending

Refresh List

Search Conditions

Delete

2 Results

09:37

11-05-2021

Emergency

Start Exam


CXDI Restart

User Name :user

Process Viewer

Logout

QC Tool

Shutdown

User Administration

User Name	Role	Operator Name
user	laborant	user
keyuser	Administrator	keyuser

Shutdown Confirmation Dialog Box

☒ Transfer All Data

☐ Backup Database

Latest backup date/time :
11-05-2021 10:04

Shutdown

Restart Options

Cancel

Add

Delete

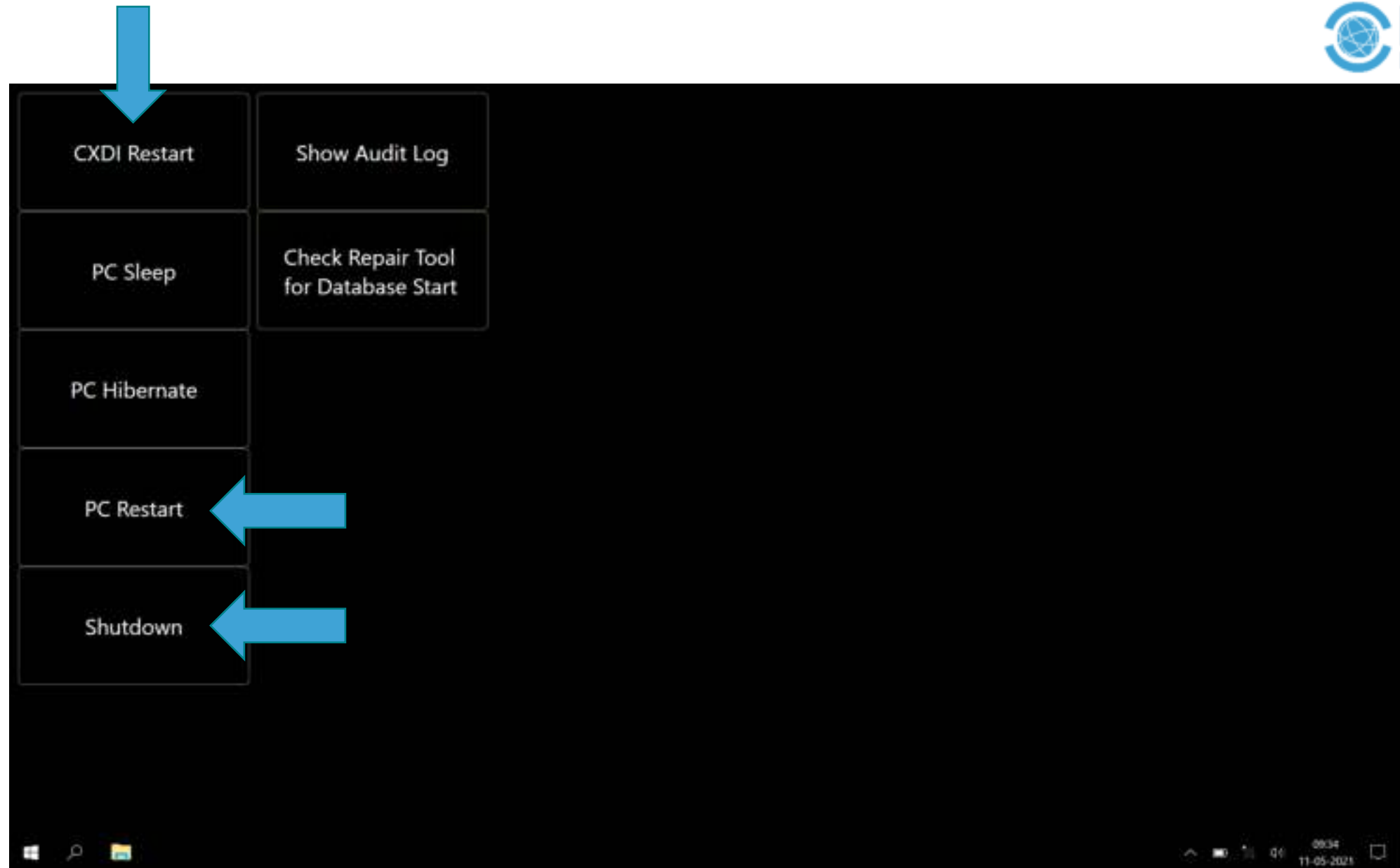
Property

09:32
11-05-2021

Apply

Cancel

OK



Shutting Down from Login Interface



Q&A

For more information, please reach out to:
info@delft.care

To get access to exclusive webinar invitations
and to get the latest updates on innovations on
digital X-ray, mobile clinics and CAD4TB
artificial intelligence software, sign up for our
newsletter by scanning the QR code with your
phone or visiting: <http://eepurl.com/diUja1>



*Thank
you*

