

## DISPLACEMENT AND POSITIONING



Before using DX-D 100, check the battery levels on the control panel. If the red indicator is blinking, operation is not allowed. In that case, it is necessary to charge the batteries.

### 1 Drive the unit

- Grip and hold the locking bar towards the handlebar.
- Push the handlebar with both hands to drive forwards.
- Release the locking bar to block motion.

### 2 Release the arm

- Press the brake control at the tube-collimator handles to release the arm from parking position.
- Press and hold the brake control while using the handles to rotate the column and move the arm horizontally and vertically.



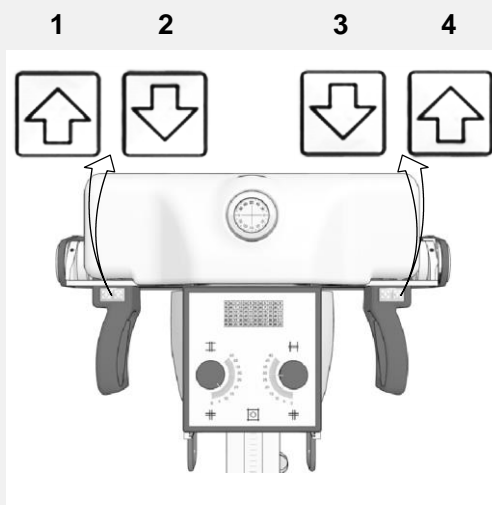
#### WARNING:

Monitor with special care the patient position or anyone present, to avoid injury caused by unit movements. Intravenous tubing, catheters and other patient connected lines should be routed away from moving equipment.

### 3 Position the unit

- Use the motion controls to adjust the position of the unit with respect to the patient.

The four buttons on the tube-collimator handles control the motion of each driving wheel (forwards/backwards).



- 1 Backwards to the right
- 2 Forwards to the right
- 3 Forwards to the left
- 4 Backwards to the left

### 4 Position the X-ray tube and collimator

Use the tube-collimator handles to rotate the X-ray tube on its transversal or horizontal axis. Use the collimator handles to rotate the collimator on its vertical axis.

## BASIC IMAGING



*Note: If you use a wired network the network cable must be plugged in to be able to query the RIS or to send images.*

### 5 Retrieve patient info

- On the RIS, schedule the examinations.
- In NX, query the RIS.
- Define the patient info for the examination.
- Start the exam.

### 6 Select the exposure

In NX, select the thumbnail for the exposure in the Image Overview pane of the Examination window.

The DR Detector is activated. The DR Detector Switch shows which DR Detector is active and shows its status.

The DX-D 100 software console is displayed and the default X-ray exposure parameters for the selected exposure are displayed.

## 7 Prepare the exposure

- Check the position of the X-ray unit and the patient.



### WARNING:

Liquids ingressing the DR Detector may cause malfunction and contamination.



If there is a chance that the detector comes in contact with liquids (bodily fluids, disinfectants,...), the DR Detector must be wrapped in a protective plastic bag while performing the examination.

- Switch on the light localizer on the collimator.
- If required, adapt collimation.

## 8 Check the exposure settings

On the NX application:

- Check if the DR Detector Switch displays the name of the DR Detector that is being used.
- If a wrong DR Detector is displayed, select the right DR Detector by clicking the drop down arrow on the DR Detector Switch.

On a DR Detector that has a status indicator:

- Check if the status of the DR Detector is ready for exposure. If the status is not ready for exposure, the DR Detector cannot be used for making an exposure.

On the software console:

- Check if the exposure settings displayed on the console are suitable for the exposure. If other exposure values are required than those defined in the NX exam, use the console to overwrite the default defined exposure settings.
- Check if the status of the DR Detector is ready for exposure.

On the control panel:

- Check if the led beacon light lights up green. This indicates that the wireless DR Detector and the X-ray generator are ready for making an exposure.

## 9 Execute the exposure

Take a safe distance from the X-ray tube.



### CAUTION:

Excessive user or operator radiation exposure. Always keep a distance of at least 2 meters from the focal spot and X-ray beam, protect body and do not expose hands, arms or other parts of the body to the primary beam.

- On the handswitch or on the remote control, press the exposure button to execute the exposure.

The exposure is sent to NX.



### WARNING:

The radiation indicator on the control console lights up during exposure release.



### CAUTION:

Do not select another thumbnail until the preview image is visible in the active thumbnail. The acquired image may be linked to the wrong exposure.

In NX:

- While the acquisition is ongoing, the X-ray on indicator is displayed on the software console. The led beacon light lights up yellow.
- The image is acquired from the DR Detector and displayed in the thumbnail.
- The software console disappears.
- If collimation is applied, the image is automatically cropped at the collimation borders.
- The actual X-ray exposure parameters are shown in the Image Detail pane

## 10 Perform quality control

In NX:

- Select the image on which quality control is to be performed.
- Prepare the image for diagnosis by using e.g. L/R markers or annotations.
- If the image is OK, send the image to a hardcopy printer and/or PACS (Picture Archiving and Communication System).