DAP Reading on NX

User Manual

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AGFA HealthCare

Contents

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Scope of this Manual

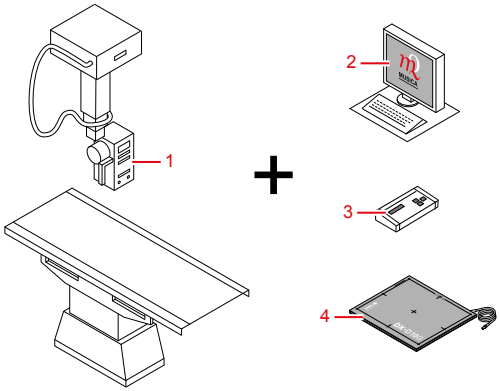
This manual contains information on the use of a dose area product meter (DAP meter) to read DAP values on the NX workstation.

Configuration

The configuration consists of the following components:

- DX-D DR Detector
- NX workstation
- DAP meter

The configuration has no integration with the X-ray system but supports integration of the DAP value readout.



1. X-ray system with DAP meter mounted to the X-ray tube head
2. NX workstation with connection to the DAP meter
3. DAP meter console
4. DX-D DR Detector

Figure 1: Configuration

After the exposure is made, the DAP value is sent to the NX workstation. The DAP value is shown in the Image Detail pane of the Examination window. The DAP value is stored with the image.

For CR exposures, the DAP value is not sent to the NX workstation. The value must be entered manually on NX.

Related Links

CR workflow with manual entry of DAP value on NX on page 8

DR workflow

1. Select the thumbnail for the exposure in the Image Overview pane of the Examination window.

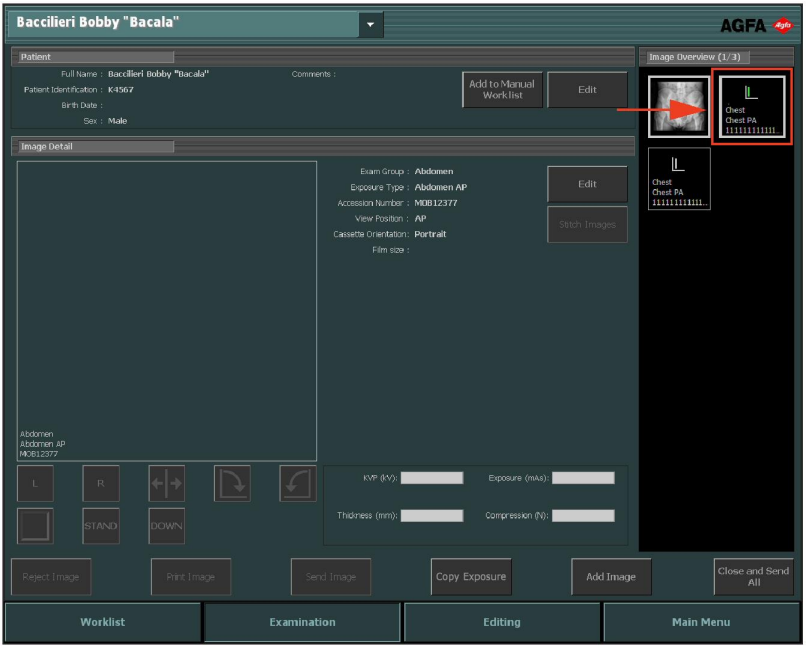


Figure 2: Examination Window with image thumbnail highlighted

The selected DR detector is activated.

The DAP meter is reset to zero.

2. Position the patient and make the exposure.

Warning: Do not select another thumbnail until the acquired image is visible in the active thumbnail.

Warning: The DAP meter is a sensitive device. External triggers like movement can cause small increments of the readout value. To reset the DAP meter before making the exposure, click the thumbnail for the exposure in the Image Overview pane of the Examination window.

As a result:

- The image is acquired from the DR detector and displayed in the thumbnail.
- If tube collimation is applied, the image is automatically cropped at the collimation borders.
- The DAP value is read from the DAP meter by the NX Workstation.
- The DAP value is shown in the Image Detail pane of the Examination window.

3. The parameters are stored with the image.

   The DAP value can be sent with the image to the archive or printed with the image. It can also be sent out via MPPS.

CR workflow with manual entry of DAP value on NX

The NX workstation can be used to enter DAP value manually in CR workflow.

The key user has to configure NX so that the DAP value field is visible in the NX Image Detail pane.

1. Select the thumbnail for the exposure in the Image Overview pane of the Examination window.

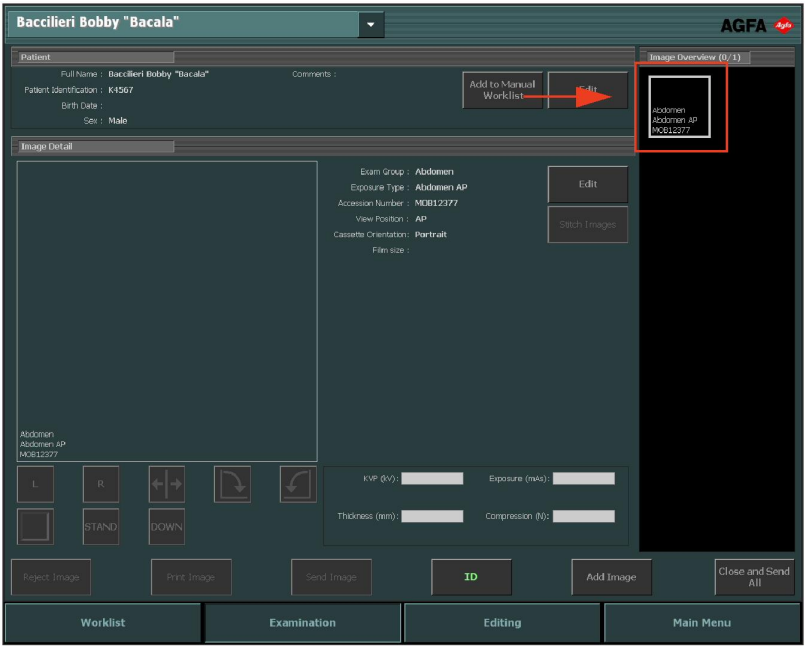


Figure 3: Examination Window with image thumbnail highlighted

The DAP meter is reset to zero.

2. Insert the cassette into the table.
3. Position the patient and make the exposure.

Warning: The DAP meter is a sensitive device. External triggers like movement can cause small increments of the readout value. To reset the DAP meter before making the exposure, click the thumbnail for the exposure in the Image Overview pane of the Examination window.

4. Remove the cassette from the table.

5. On the DAP meter console, read the DAP value.
6. In the Image Detail pane, enter the DAP value.
7. Insert the cassette in the Tablet and click ID in the Examination window. This will link the entered DAP value to the image.
8. Insert the cassette in the Digitizer.

Dose Area Product Meter (DAP) Technical Data

Manufacturer	VacuTec Messtechnik GmbH Dornblüthstrasse 13 D-01277 Dresden, Germany	
Supported Type	VacuDAP OEM	
Dose area product range	0.1 - 99.999.999 μGy.m^2	
Quality filtration	0.2 mm Al equivalent (70 kV)	
	Small format	Large format
Active area	(1 .. 140) cm2	(1 .. 200) cm2
Dimensions	15.8 cm x 14.7 cm x 1.8 cm (WxDxH)	18.2 cm x 17.7 cm x 1.8 cm (WxDxH)
Weight	205 g	255 g