Service Information Bulletin

This Bulletin is for information only.

Announcement of released DX-D 100 Version 2.0

Task

Timing		Category
Next service	○	**Apply at all sites**
	○	**Apply at affected sites as listed below**
	◉	**Optional to improve functionality of product**

Purpose of this document:

This document announces the customer release of the DX-D 100 system version 2.0 in combination with NX Workstation 2.0.8600 / 3.0.8600 and XRDI Software version 10.1.

1 Introduction of DX-D 100 System Version 2.0

The Agfa DX-D 100 Mobile X-ray Unit is a universal, flexible and affordable mobile modality.

With the release of DX-D version 2.0 some components and features of the system have been changed; see following sections:

- Section 1.1, Overview of DX-D 100 version 2.0 components
- Section 1.2, Hardware and Software Components of DX-D 100 version 2.0
- Section 2, New features of the DX-D 100 version 2.0 components

1.1 Overview of DX-D 100 Version 2.0 Components

The DX-D 100 system version 2.0 consists of the following components:

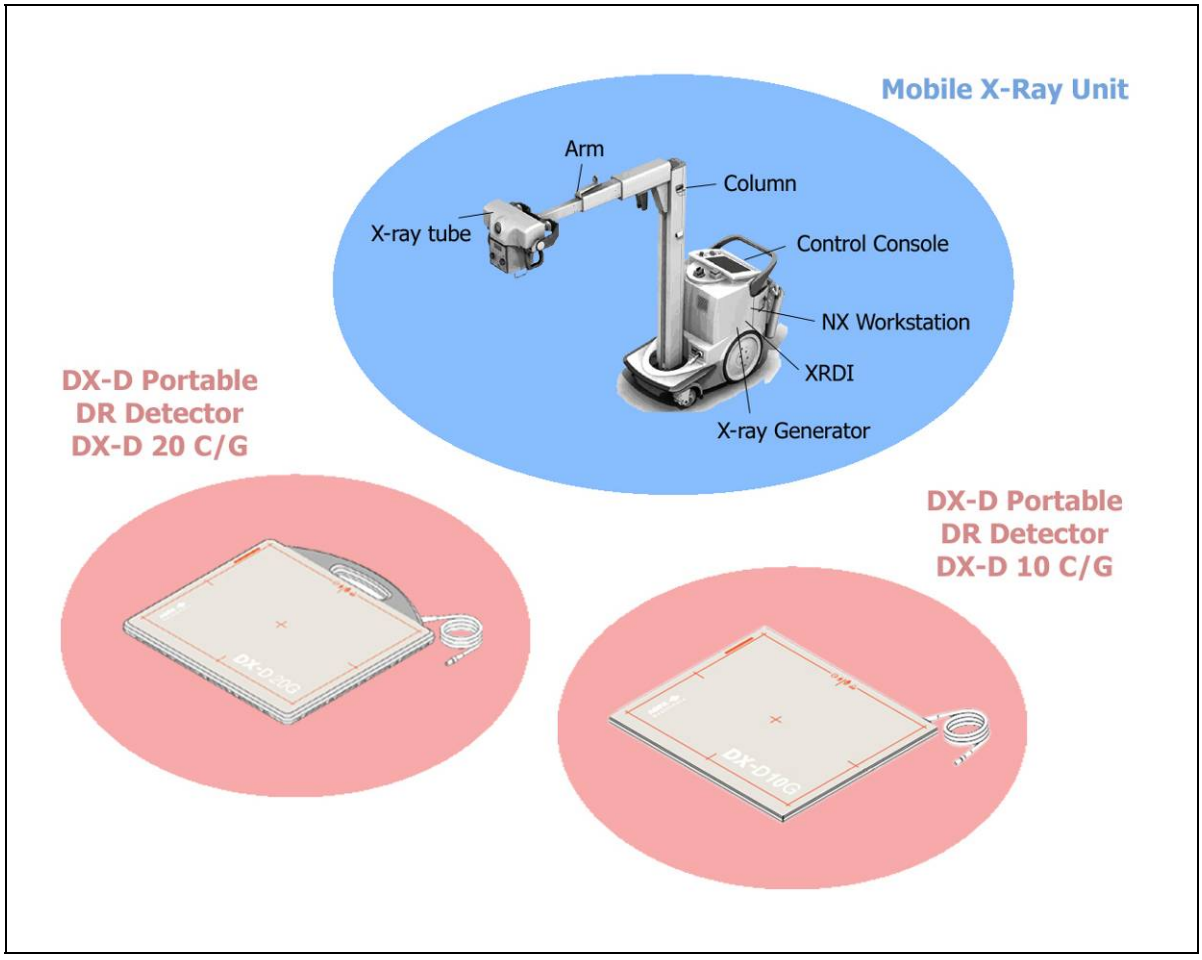

Figure 1

1.2 Hardware and Software Components of DX-D 100 Version 2.0

DX-D 100 System:

- DX-D100 Mobile DR X-Ray unit 20 KW
- DX-D100 Mobile DR X-Ray unit 32 KW
- DX-D100 Mobile DR X-Ray unit 40 KW (300 KHU)
- DX-D100 Mobile DR X-Ray unit 50 KW (300 KHU)

NX Workstation:

- NX 2.0.8600 / 3.0.8600
- NX Workstation runs on built-in PC (with integrated Soft Console located on the right hand side of the Monitor)

XRDI:

- XRDI Software version 10.1

Hardware Components:

- DX-D 20G DR Detector, part number 7358 (GOS)
- DX-D 20C DR Detector, part number 20665 (CSI)
  DX-D 10G DR Detector, part number 7358 (GOS)
- DX-D 10C DR Detector, part number 20665 (CSI)
- X-ray tube with manual LED collimator
- Motorized wheels
- Battery for wheeling motor
- Battery for X-ray Generator
- 17” Touch screen monitor
- Full or reduced column height

Solution Options:

- DAP meter (mounted below collimator)
- Anti scatter grids
- Wireless exposure button
- NX Musica2 Platinum
- NX 3.0 feature license

2 New Features and Components of the DX-D 100 Version 2.0

With the DX-D 100 system version 2.0 following new features and components are introduced:

- DX-D 20 C/G portable DR Detector with adapted cable length; see section 2.1
- DX-D 10 C/G portable DR Detector; see section 2.2
- New Grid for DX-D 10 C/G portable DR Detector; see section 2.2.1
- XRDI software version 10.1; see section 2.3
- NX 2.0.8600 / 3.0.8600; see section 2.4
- Ralco LED Collimator; see section 2.5
- New Design of the Remote control; see section 2.6
- DX-D 100 with shorter column height; see section 2.7

2.1 DX-D 20 C/G Portable DR Detector with adapted Cable Length

Symptom For the use of the DX-D 100 the cable length is too long. It is not possible to disconnect the portable DR Detector without opening the covers of the DX-D 100 system.

Defect The DX-D 100 system version 1.0 has been released with a cable length of 8 m.

Solution With DX-D 100 system version 2.0 the DX-D 20 C/G portable DR Detector is released with a cable length of 4.5 m.

Additionally an extension cable of 3.5 m will be mounted in the DX-D 100 system between the I/O box and external pig tail.

The portable DR Detector can be connected now on the outside of the DX-D 100.

2.2 DX-D 10 C/G Portable DR Detector (Cassette Size Detector)

The DX-D 10 C/G Portable DR Detector is specifically designed for portable applications.

It is used by radiographers/radiologists to make static X-ray radiographic images of the body, specifically the skull, spinal column, chest, abdomen and extremities.

The DX-D 10 C/G portable DR Detector has the following part number:

- DX-D 10 C DR Detector - Part number 20665 (CSI)
- DX-D 10 G DR Detector - Part number 7358 (GOS*)

* The GOS DR Detector is sometimes also referred to as a DRZ+ Detector (in documents from Varian).

Technical data of the DX-D 10 C/G portable DR Detector:

- DR Detector size: 46 cm x 38.4 cm x 1.5 cm
- Image size: 42.7 x 35.6 cm, 139 µm-pixel GOS or CSI Flat panel DR Detector
- Pixel matrix: 7.8 Million Pixels (3072 x 2560)
- DR Detector weight: 3.9 kg

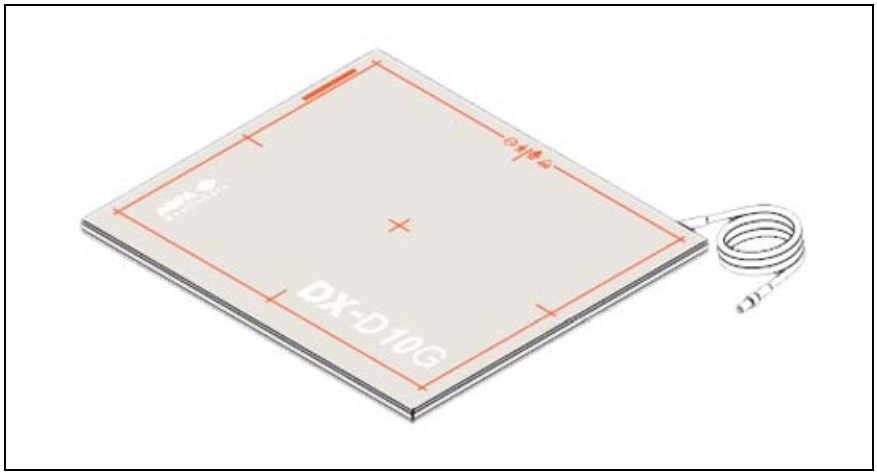

Figure 2: Example DX-D 10G

For more information concerning the complete installation of the DX-D 10 C/G refer to the portable DR Detector Service Manual (Intranet Link / Extranet Link).

NOTE:
In the portable DR Detector Service Manual are only the DX-D 20 C/G described. The instructions for the complete installation of the DX-D 10 C/G are the same.

2.2.1 New Grid for DX-D 10 C/G portable DR Detector

With the introduction of the DX-D 10 C/G a new Grid is released:
Reina imaging grid 215 lp PDRDXD20 (Option) with ABC-code: 5QP8M

2.3 XRDI Software Version 10.1

With the release of DX-D 100 system version 2.0 the XRDI software version 10.1 is introduced.

IMPORTANT:
The XRDI Software is pre-installed in production.
Only in case of a clean install procedure install the XRDI software as described in the XRDI Service Manual (Intranet Link / Extranet Link).

NOTE:
In the XRDI Service Manual is the installation of the XRDI Software version 10.0 described.
The installation instructions for the XRDI Software version 10.1 are the same.

2.4 NX 2.0.8600 / 3.0.8600

With the release of the DX-D 100 system version 2.0 the NX 2.0.8600 / 3.0.8600 is introduced.

For more information refer to the NX8600 Service Documentation; see Agfa HealthCare Library: **<Computed Radiography → CR Workstation Software>**

2.5 Ralco LED Collimator

The current Collimator released with DX-D 100 version 1.0 is based on a light bulb.

With the release of DX-D 100 system version 2.0 the current Collimator is replaced by a LED Collimator.

2.6 New Version of Infrared Remote Control available

The infrared remote control of the DX-D 100 consists of:

- Collimator lamp button (a)
- Infrared window (b)
- Exposure button (c)

Symptom The complete functionality of the current released infrared remote control is not given.

Defect The Collimator lamp button (a) has no function.

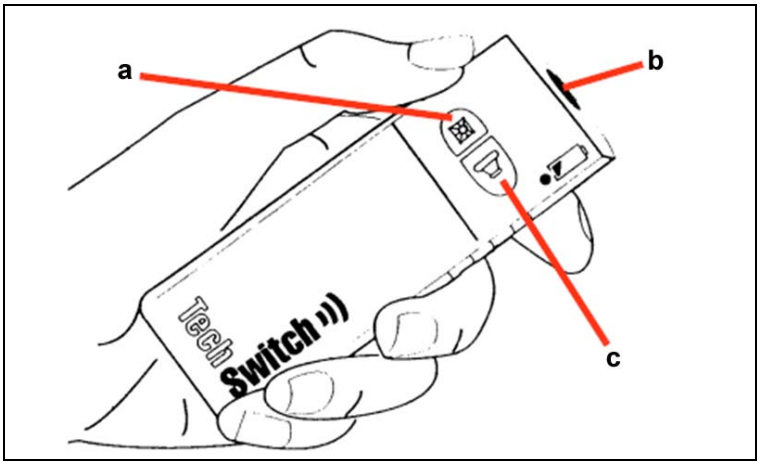

Figure 3

Solution With the release of DX-D 100 system version 2.0 a new infrared remote control with the complete functionality of all three buttons is released.

2.7 DX-D 100 with shorter Column Height

Symptom The use of the DX-D 100 system version 1.0 with the full column height is not applicable for rooms with reduced room height.

Defect In case of reduced room height a shorter column height of the DX-D 100 is needed. The column height needs to be reduced by 14 cm.

Solution With the release of DX-D 100 system version 2.0 the option “shorter column height” is introduced (Tube Column Height Reduction to 185 cm with ABC-code: 5RVJ4).

3 Adapted Replacement Instruction of the U24 EPROM on the ATP-Board with the new ELO 17" Touch Screen Monitor

Introduction

With the release of the DX-D 100 system version 2.0 the DX-D 100 will be delivered with a 17” Touch screen monitor. This monitor is fixed with a new mounting plate, which affects the replacement instruction of the EPROM on the ATP-Board.

In case the EPROM on the ATP Board needs to be replaced, follow the adapted instructions below.

TOOLS:

- Allen wrench
- Chip extractor

DANGER:

Risk of life.

Lethal voltages are present in the area were the replacements need to be done. Strictly observe the following replacement instructions:

Disassembly

(1) Switch off the DX-D 100 system before starting with the replacement.

(2) Disconnect the network cable.

(3) Remove the upper rear cover of the DX-D 100 as shown in Figure 4.

Figure 4

(4) Open the screws of the rear panel and swing it open (A) as shown in Figure 5.

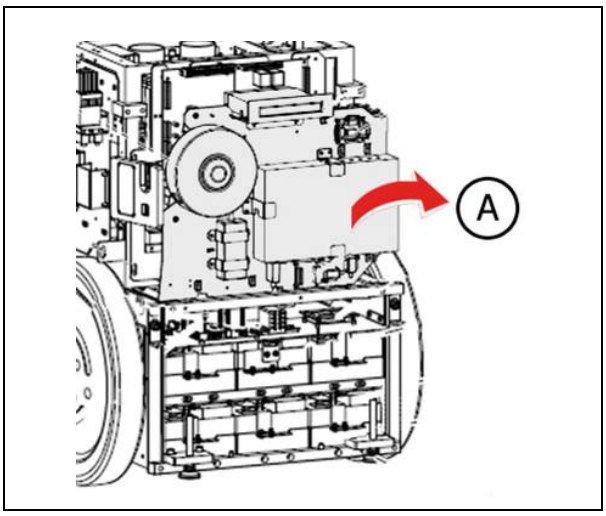

Figure 5

(5) Remove 5 screws of the mounting plate as shown in Figure 6.

(6) Remove the mounting plate.

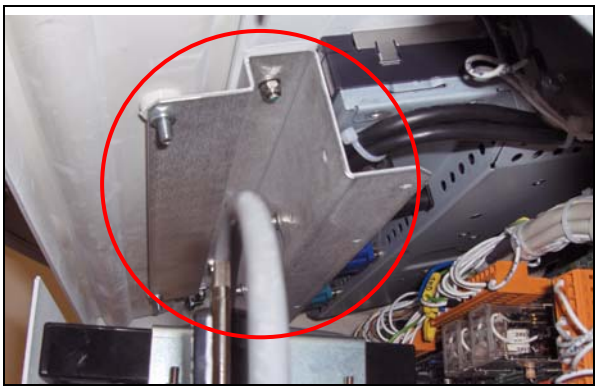

Figure 6

(7) Disconnect the cable (A).

(8) Open 2 screws (B) of the panel as shown in Figure 7.

(9) Swing the panel open.

IMPORTANT:

Make sure that the cables are not damaged when swinging the panel open.

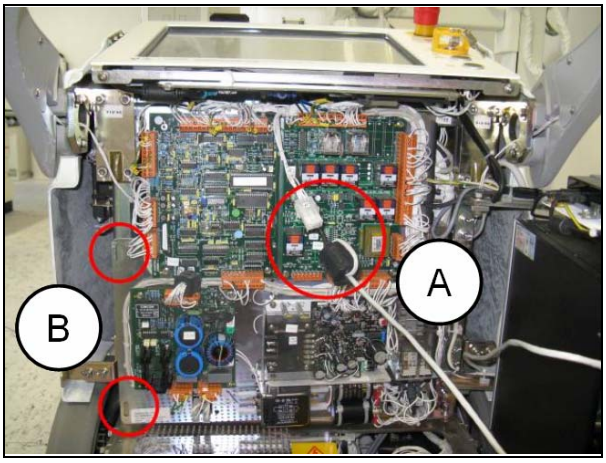

Figure 7

(10) Remove the U24 EPROM on the ATP Console with a chip extractor.

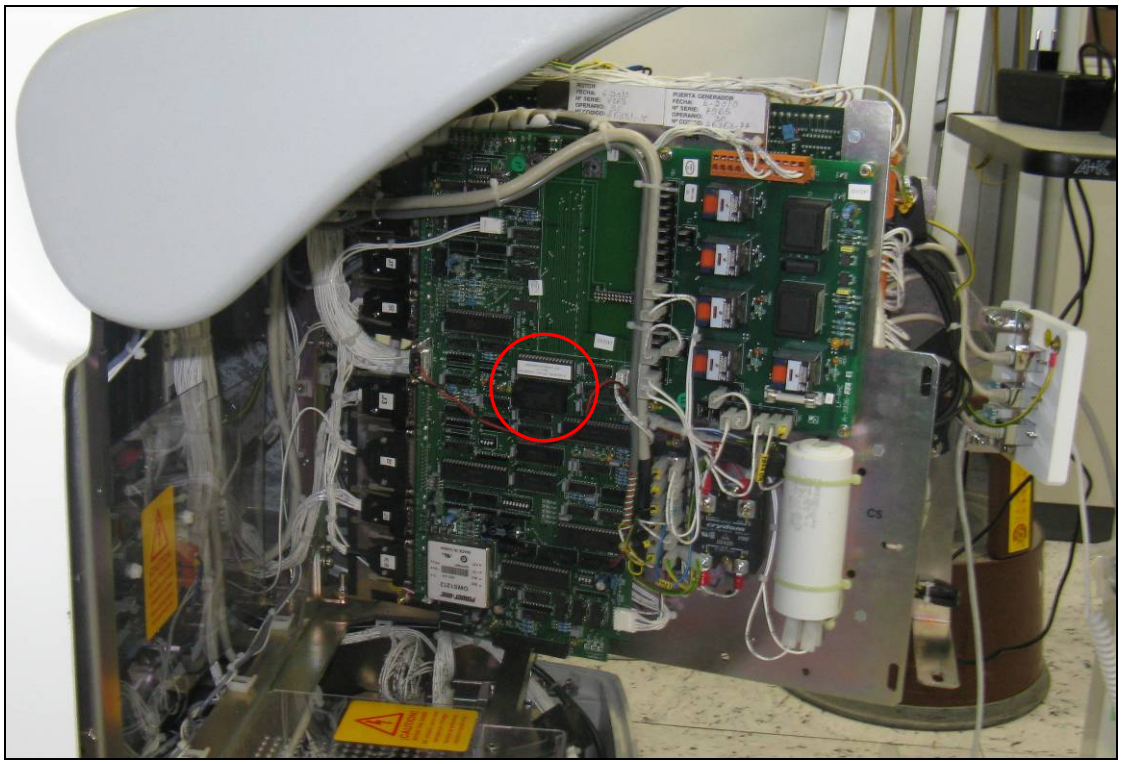

Figure 8

Assembly (1) Remount in reverse order.

4 Service Documentation

IMPORTANT:

Links within the Service Documentation point to local document and not to the Agfa HealthCare Library. This supports the offline usage during service intervention.

These links refer to a defined folder structure on a local hard disk.

This offline navigation is also implemented in Technical Service CD delivered with the DX-D 100.

Figure 9: Defined folder struture for offline use

4.1 Instructions for Document Updating

(1) Activate the Agfa HealthCare Library Notification to stay informed about document updates. For details refer to: Intranet Link / Extranet Link

As soon as an update is available an E-Mail from the Agfa HealthCare Library is triggered.

(2) Copy the defined folder structure from the Technical Service CD delivered with the DX-D 100.

(3) Download the latest documents from Agfa HealthCare Library.

NOTE:

Download the files to the defined folder structure on the local hard disk before going to customer's site.

(4) Make sure that the same filenames as already used in the defined folder structure are used.

For Example: Always replace the existing file in the defined folder structure with the file stored on Agfa HealthCare Library.

IMPORTANT:
Do **not** change the file name in the defined folder structure otherwise the offline navigation cannot be used.

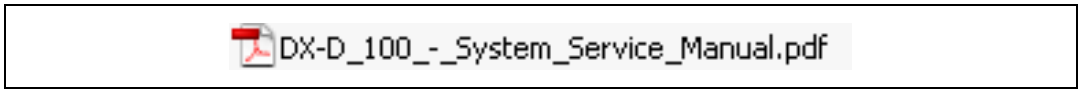

Figure 10: Example of Agfa HealthCare Library file naming

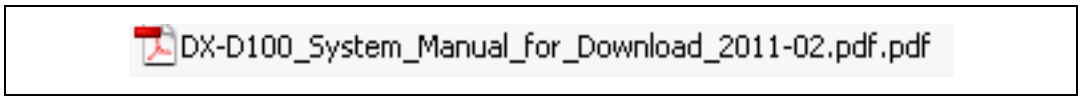

Figure 11: Example of offline navigation file naming in the defined folder structure

5 Keywords

- DX-D 100
- DX-D 10 C/G portable DR Detector
- XRDI software version 10.1
- NX 2.0.8600 / 3.0.8600
- New features with DX-D system version 2.0
- U24 EPROM Replacement

6 Version History

Version	Change	Date
1.0	Initial Version	06-2011