Affordable and efficient computed radiography solution offering high image quality and high throughput.

- Convenient and fast workflow, with user-controllable speed and resolution
- Robust yet easy to install and maintain
- Fits in small spaces and is suited for mobile applications
- Networking capabilities deliver seamless integration

Agfa HealthCare is a global leader in the fast-growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions.

Agfa HealthCare offers a range of solutions that integrate IT and imaging systems for Radiology, Cardiology, Mammography, and Orthopaedics. Its enterprise-wide IT platform integrates all administrative and clinical data within a healthcare facility and is designed to meet the unique needs of specific healthcare professionals.

CR 12-X Digitizer

The tabletop CR 12-X digitizer is based on proven Agfa HealthCare technology, with a modular yet robust design combining affordability with high image quality, adjustable speed and a user-tuned workflow. Versatile, this computed radiography (CR) digitizer can handle general radiography, orthopaedic, chiropractic and Full Leg/Full Spine applications. The total cost of ownership remains low, thanks to its ease of installation, maintenance and use, making it an affordable way to move from analog to digital. With the CR 12-X, clinics and private practices can take advantage of the convenient and fast workflow offered by digital radiography.

SAFETY

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulation</th>
<th>X-ray</th>
<th>Laser</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EN/IEC 60601-1 edition 3</td>
<td>EN 60825-1:2007</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EN/IEC 60601-1-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>IEC 60601-2-20 good</td>
<td>IEC 60825-1:2007</td>
<td></td>
</tr>
<tr>
<td></td>
<td>transistioning practice for medical device</td>
<td>CRF parts 540, 10 and 240, 11</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>CSA C62.3 No.601.1-3 No.601.2</td>
<td>CSA 60601-2-3 (B087)</td>
<td></td>
</tr>
</tbody>
</table>

Why Agfa HealthCare?

Agfa HealthCare is a global leader in the fast-growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions. These specialized solutions integrate IT and imaging systems for Radiology, Cardiology, Mammography and Orthopaedics. Agfa HealthCare’s enterprise-wide IT platform integrates all administrative and clinical data within a healthcare facility and is designed to meet the unique needs of specific healthcare professionals.

www.agfahealthcare.com

CR 12-X Digitizer

Affordable and efficient computed radiography solution offering high image quality and high throughput.

- Convenient and fast workflow, with user-controllable speed and resolution
- Robust yet easy to install and maintain
- Fits in small spaces and is suited for mobile applications
- Networking capabilities deliver seamless integration

Agfa and the Agfa logo are trademarks of Agfa-Gevaert N.V., Belgium, or its affiliates. All other trademarks are held by their respective owners and are used in an editorial format with no intention of infringement. The data in this publication are for illustration purposes only and do not necessarily represent standards or specifications, which must be met by Agfa. Information on Agfa’s website is subject to the terms and conditions of access and use. This publication and its contents are protected by copyright. Every attempt has been made to ensure the accuracy of the information contained herein. However, Agfa HealthCare cannot accept any responsibility for any typographical errors.

© 2013 Agfa HealthCare NV
All rights reserved
Printed in Belgium
Published by Agfa HealthCare NV
5B400 Model - Belgium
S/N/MS 8 DIG 000 840
Balancing speed and resolution

With the CR 12-X, the user can choose to adjust speed and resolution depending on the needs of the exam. The user can easily overcome the default settings for each exam, depending on the specific speed/quality priorities, study by study.

Convenient and fast workflow

The CR 12-X works in conjunction with NX, Agfa HealthCare’s image identification and quality control tool, for a highly efficient and optimized, yet customizable, radiology workflow. It comes with Agfa HealthCare’s gold-standard MUSICA² software, which automatically handles all calibration and image processing, independently of body part and dose, optimizing the final image quality without the need for any human intervention or special training.

Robust yet easy to install and maintain

Installing the CR 12-X is fast and easy. Special LED technology in the erasure unit means low power consumption. With its ‘one screwdriver’ concept and modular, component-based design, maintenance is faster, easier and more cost-effective, as well. Consequently, set up costs are lower and installation simpler.

Networking capabilities deliver seamless integration

The CR 12-X is fully DICOM-compliant, to easily integrate with other solution elements; we recommend combining it with Agfa HealthCare’s NX software suite for a complete software solution, or with the DRYSTAR 5302 imager for a hardware solution.

General Radiography & FLFS - imaging plate and cassette

Cassette Sizes

<table>
<thead>
<tr>
<th>CR MD1.0 General</th>
<th>Spatial Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 x 43 cm (14 x 17&quot;)</td>
<td>For General Radiography</td>
</tr>
<tr>
<td>35 x 43 cm (14 x 17&quot;)</td>
<td>10 pixels/mm</td>
</tr>
<tr>
<td>35 x 43 cm (14 x 17&quot;)</td>
<td>6.6 pixels/mm</td>
</tr>
<tr>
<td>35 x 43 cm (14 x 17&quot;)</td>
<td>5 pixels/mm</td>
</tr>
<tr>
<td>35 x 43 cm (14 x 17&quot;)</td>
<td>For FLFS</td>
</tr>
<tr>
<td>35 x 43 cm (14 x 17&quot;)</td>
<td>10 pixels/mm</td>
</tr>
<tr>
<td>35 x 43 cm (14 x 17&quot;)</td>
<td>5 pixels/mm</td>
</tr>
</tbody>
</table>

Bar code

To guarantee highest image quality, each image plate features a bar code which contains all plate specific data.

Technical Specifications

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Digitizer type: CR 12-X Digitizer</td>
</tr>
<tr>
<td></td>
<td>Display: LCD Status Indicator</td>
</tr>
<tr>
<td></td>
<td>Concrete resolution: 20 bits/pixel</td>
</tr>
<tr>
<td></td>
<td>Transfer to processor: 36 bits/pixel square root compressed</td>
</tr>
<tr>
<td></td>
<td>Depth without cassette and extension: 360 mm</td>
</tr>
<tr>
<td></td>
<td>Power:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Minimum requirements: CR MD1.0 General Cassette</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental conditions</td>
<td>In line with: IEC 722-3-0 (1997); class 3K2, with the following restrictions:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile use</td>
<td>In line with IEC721-3-3 (1997): with the following restrictions:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Transport</td>
<td>In line with: IEC 721-3-2 (1997): with the following restrictions:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>In line with: IEC721-3-1: class 1K4</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CR 12-X DIGITIZER
Balancing speed and resolution
With the CR 12-X, the user can choose to adjust speed and resolution depending on the needs of the exam. The user can easily overwrite the default settings for each exam.

Convenient and fast workflow
The CR 12-X works in conjunction with NX, Agfa Healthcare’s image identification and quality control tool, for a highly efficient and optimized, yet customizable, radiology workflow.

It comes with Agfa Healthcare’s gold-standard MUSICA² software, which automatically handles all calibration and image processing, independently of body part and dose,

Networking capabilities deliver seamless integration
The CR 12-X is fully DICOM-compliant, to easily integrate with other solution elements; we recommend combining it with Agfa Healthcare’s NX software suite for a complete software solution, or with the DRYSTAR 5302 for a hardcopy solution.

General Radiography & FLFS: imaging plate and cassette

Cassette Sizes

<table>
<thead>
<tr>
<th>CR MD1.0 General</th>
<th>35 x 43 cm (14 x 17”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spatial Resolution</td>
<td>For General Radiography</td>
</tr>
<tr>
<td>10 pixels/mm</td>
<td>6.6 pixels/mm</td>
</tr>
<tr>
<td>5 pixels/mm</td>
<td>10 pixels/mm</td>
</tr>
</tbody>
</table>

Power

- 50/60 Hz
- Fuse: Europe max 16 A; USA max 15 A
- Minimum requirements: CR MD1.0 General Cassette; CR MD1.0 General Plate; NX Workflow

Bar code

To guarantee highest image quality, each image plate features a bar code which contains all plate-specific data.

CR 12-X DIGITIZER

Technical Specifications

General

- Diaphragm type: Single cassette feed
- Cycle time: 35 x 43 cm (14 x 17"): 60 seconds (depending on resolution)

Display

- LED Store Indicator
- Status and error messages on external PC monitor

Greyscale resolution

- Data acquisition: 24 bits/pixel
- Output to processor: 36 bits/pixel (square root compressed)

Dimensions and weight

- W x D x H: 580 x 700 x 471 mm
- Depth without cassette unit and extension: 380 mm
- Weight: 29 kg

Power

- Autoranging external power supply (24 V output)
- Input: 100 V - 240 V
- < 2 A
- 50/60 Hz
- Fuse: Europe max 16 A; USA max 15 A

Minimum requirements

- CR MD1.0 General Cassette
- CR MD1.0 General Plate
- NX Workflow

Storage

- Packed device shall withstand the following mechanical conditions: IEC 723-3-1: class 102 and IEC 723-3-2: class 103; including sea transport.
- In line with IEC 723-1-1: class I14

SAFETY

Approvals

- CE, cNRTLus
Balancing speed and resolution

With the CR 12-X, the user can choose to adjust speed and resolution depending on the needs of the exam. The user can easily override the default settings for each exam, depending on the specific speed/quality priorities, study by study.

Convenient and fast workflow

The CR 12-X works in conjunction with NX, Agfa Healthcare’s image identification and quality control tool, for a highly efficient and optimized, yet customizable, radiology workflow.

It comes with Agfa Healthcare’s gold-standard MUSICA² software, which automatically handles all calibration and image processing, independently of body part and dose, optimizing the final image quality without the need for any human intervention or special training.

Robust yet easy to install and maintain

Installing the CR 12-X is fast and easy. Special LED technology in the erasure unit means low power consumption. With its ‘one screwdriver’ concept and modular, component-based design, maintenance is faster, easier and more cost-effective, as well. Consequently, set up costs are lower and installation simpler.

Horizontal cassette insertion prevents dust and dirt from being introduced during normal operation. Fits in small spaces and is suited for mobile applications

With its table-top size, the CR 12-X digitizer can be placed easily at any location, no matter how small, and was designed with ease of use in mind. The CR 12-X can also be fitted into cars, vans, trucks and other mobile facilities, for mobile applications. Due to the low power consumption, connection to battery can be easily realized.

Networking capabilities deliver seamless integration

The CR 12-X is fully DICOM-compliant, to easily integrate with other solutions; it seamlessly combines it with Agfa Healthcare’s SE software suite for a complete software solution, or with the DRYSTAR 5302 imager for a hardcopy solution.

Bar code

To guarantee highest image quality, each image plate features a bar code which contains all plate specific data.

cassette sizes

Cassette Sizes

Spatial Resolution

<table>
<thead>
<tr>
<th>Cassette Size</th>
<th>For General Radiography</th>
<th>For FLFS</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 x 43 cm (14 x 17”)</td>
<td>10 pixels/mm</td>
<td>10 pixels/mm</td>
</tr>
<tr>
<td>4.5 x 6 cm (2” x 2.4”)</td>
<td>6.6 pixels/mm</td>
<td>5 pixels/mm</td>
</tr>
<tr>
<td>5 x 5 cm (2” x 2”)</td>
<td>5 pixels/mm</td>
<td></td>
</tr>
</tbody>
</table>

Technical Specifications

- CR 12-X Digitizer
- Single cassette feed
- Cycle time: 35 x 43 cm (14 x 17”): 60 seconds (depending on resolution)
- Display: LED status indicator
- Status and error messages on external PC monitor
- Grey scale resolution: 16 bits/pixel
- Dynamic range: 36 bits/pixel (square root compressed)
- Dimensions and weight: Width: 580 mm, Depth: 700 mm, Height: 471 mm
- Depth without cassette unit and extension: 380 mm
- Weight: 29 kg
- Power: 100 V - 240 V, 2 x 2 A
- FM: 50/60 Hz
- Fuse: Europe max 16 A; USA max 15 A
- Minimum requirements: CR MD1.0 General Cassette
- CR MD1.0 General Plate
- NX workstation

Environmental conditions:
- In line with: IEC 725-3-0 (1997): class 3K2
- Temperature: 15 - 35 °C
- Environmental-conditions: Noise level: max. 65 db (A)
- Humidity: 15 - 75 % RH (non-condensing)
- Transport: In line with IEC 725-3-5: 5K1 and 5M3
- Mobile use: In line with IEC 725-3-0 (1997): with the following restrictions:
  - Temperature: +15° C to +35° C
  - Humidity: 15 - 75 % RH (non-condensing)
  - During transport: In line with IEC 725-3-0 (1997)

Storage:
- Packaged device shall withstand the following mechanical conditions: IEC 725-3-0: class 3K2 and IEC 725-3-5 (1997): class 2K2, including sea transport.
- In line with IEC 725-3-0: class 3K2
- SAFETY Approvals: CE, cNRTLus
The tabletop CR 12-X digitizer is based on proven Agfa HealthCare technology, with a modular yet robust design combining affordability with high image quality, adjustable speed and a user-tuned workflow. Versatile, this computed radiography (CR) digitizer can handle general radiography, orthopaedic, chiropractic and Full Leg/Full Spine applications. The total cost of ownership remains low, thanks to its ease of installation, maintenance and use, making it an affordable way to move from analog to digital. With the CR 12-X, clinics and private practices can take advantage of the convenient and fast workflow offered by digital radiography.

- Affordable and efficient computed radiography solution offering high image quality and high throughput.
- Convenient and fast workflow, with user-controllable speed and resolution.
- Robust yet easy to install and maintain.
- Fits in small spaces and is suited for mobile applications.
- Networking capabilities deliver seamless integration.

Agfa HealthCare is a global leader in the fast-growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions. These specialized solutions integrate IT and imaging systems for Radiology, Cardiology, Mammography and Orthopaedics. Agfa HealthCare’s enterprise-wide IT platform integrates all administrative and clinical data within a healthcare facility and is designed to match the unique needs of specific healthcare professionals.
Affordable and efficient computed radiography solution offering high image quality and high speed.

The tabletop CR 12-X digitizer is based on proven Agfa HealthCare technology, with a modular yet robust design combining affordability with high image quality, adjustable speed and user-tunable workflow. Versatile, this computed radiography (CR) digitizer can handle general radiography, orthopaedic, chiropractic and Full Leg/Full Spine applications. The total cost of ownership remains low, thanks to its ease of installation, maintenance and use, making it an affordable way to move from analog to digital. With the CR 12-X, clinics and private practices can take advantage of the convenient and fast workflow offered by digital radiography.

**Features:**
- Affordable and efficient computed radiography solution offering high image quality and throughput.
- Convenient and fast workflow, with user-controllable speed and resolution.
- Robust yet easy to install and maintain.
- Fits in small spaces and is suited for mobile applications.
- Networking capabilities deliver seamless integration.

Agfa HealthCare is a global leader in the fast growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions.

**Why Agfa HealthCare?**

Agfa HealthCare uses a proven and validated modular architecture and state-of-the-art technology to deliver high quality, cost-effective, yet efficient and robust solutions. It integrates all clinical and administrative applications to ensure outstanding workflow, with best-in-class care for patients, staff and healthcare financing. Agfa HealthCare offers equipment and software solutions that are designed to fit your needs and budget, along with education and training to ensure optimal use. Agfa HealthCare is committed to providing the best in terms of quality and service, ensuring that you receive the support you need to succeed.

**Regulatory Information:**

- **USA:** 21CFR part 1002 (good manufacturing practice for medical devices)

Agfa and the Agfa logo and rhombus are trademarks of Agfa-Gevaert N.V. or its affiliates. All other trademarks are held by their respective owners and are used in an editorial fashion with no intention of infringement. The data in this publication are for illustration purposes only and do not necessarily represent standards or specifications, which must be met by Agfa HealthCare. Agfa HealthCare disclaims any responsibility for any typographical errors or omissions in this publication. The information contained herein is intended for guidance purposes only, and characteristics of the products and services described in this publication can be changed at any time without notice. Products and services may not be available for your local area. Please contact your local sales representative at Agfa HealthCare for availability information. Agfa HealthCare disclaims any intention, error or omissions in this publication. No warranty is given as to the accuracy or completeness of this publication. This information is provided free of charge and is not intended to be relied on for any commercial or other purposes.

Agfa HealthCare is a global leader in the fast growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions. Agfa HealthCare's enterprise-wide IT platform integrates all administrative and clinical data within a healthcare facility and is designed to match the unique needs of specific healthcare professionals.