# CR 12-X


**FEATURING, A SIMPLE YET SMART DESIGN, THE CR 12-X DIGITIZER OFFERS AN IDEAL SOLUTION FOR CLINICS AND PRIVATE PRACTICES. AFFORDABLE, COMPACT, AND FAST; THIS COST EFFECTIVE ENTRY INTO DIGITAL RADIOGRAPHY COMBINES HIGH IMAGE QUALITY WITH A WORKFLOW THAT ADDRESSES USER PRIORITIES.**

- 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

## Cost effective 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 a user-tuned workflow. Versatile, this computed radiography (CR) digitizer can handle a broad range of digital radiography 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.

## Balancing speed and resolution

With the CR 12-X, the user can choose to adjust speed and resolution based on the diagnostic requirements for the type of exam. The user can modify the default settings for each study, depending on the specific speed or quality requisites. Agfa HealthCare's intelligent MUSICA image processing automatically optimizes image quality.

## 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 MUSICA software, which automatically handles calibration and image processing, independent of body part and dose, optimizing the final image quality without the need for any human intervention or special training.

AGFA HealthCare

### 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. 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 easily be placed at locations where space may be an issue. The size of the CR 12-X digitizer allows for it to be mounted for use in cars, vans, and trucks for mobile applications. Low power consumption and the ability to connect to the vehicle's battery increase the options for use. 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 solution elements; we recommend combining it with Agfa HealthCare's SE software suite for a complete softcopy solution, or with the DRYSTAR 5302 imager for a hardcopy solution.


## CASSETTE SIZES

| | Cassette Sizes | Spatial Resolution |
|---|---|---|
| CR MD1.0 General | 35 x 43 cm (14 x 17 in)  | **For General Radiography**<br>10 pixels/mm<br>6.6 pixels/mm<br>5 pixels/mm<br><br>**For FLFS**<br>10 pixels/mm<br>5 pixels/mm |
| CR MD1.0 General | 24 x 30 cm (with cassette adapter)  | **For General Radiography**<br>10 pixels/mm<br>6.6 pixels/mm<br>5 pixels/mm |

### Bar code

In order to guarantee highest image quality, each image plate contains a bar code which contains all plate specific data.

# technical

## SPECIFICATIONS

### GENERAL

**Digitizer type**

- Single cassette feed
- Throughput: Up to 78 plates/hour* (depending on size and resolution)

**Display**

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

**Greyscale resolution**

- Data acquisition: 20 bits/pixel
- Output to processor: 16 bits/pixel square root compressed

**Dimensions and weight**

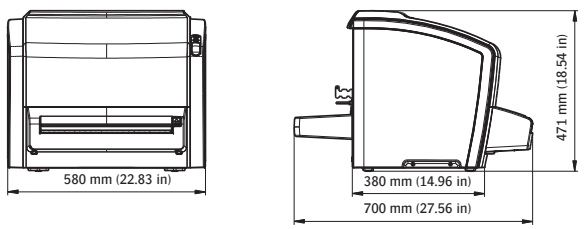
- W x D x H: 580 x 700 x 471 mm (22.83 x 27.56 x 18.54 in)
- Depth without cassette unit and extension: 380 mm (14.96 in)
- Weight: 29 kg

**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 PLATE
- CR MD1.0 GENERAL CASSETTE
- CR MD1.0 CASSETTE ADAPTER 24 X 30
- NX




* this comprises cassette exchange time of 2s

**Environmental conditions**

- In line with: IEC 721-3-3 (1997): class 3K2, with the following extension:
  - Temperature: 15° to 35° C (59° to 95° F)

**Environmental effects**

- Noise level: max. 65 dB (A)
- Heat dissipation: standby 30 W, max. 140 W

**Mobile use**

- In line with IEC721-3-3 (1997): 3K2 with the following restrictions:
  - Temperature: 15° to 35° C (59° to 95° F)
  - Humidity: 15 - 75 % RH (non-condensing)
  - During transport with mobile kit: in line with IEC721-3-5: 5K1 and 5M3

**Transport**

- In line with: IEC 721-3-2 (1997): class 2K2, with the following restrictions:
  - -25° to +55° C (-4° to 131° F)

**Storage**

- Packed device shall withstand the following mechanical conditions: IEC 721-3-1: class 1M2 and IEC 721-3-2(1993): class 2M3; including sea transport.
- In line with IEC721-3-1: class 1K4

### SAFETY

**Approvals**

- CE, cNRTLus

### SAFETY

**General**

The product has been designed in accordance with the MEDDEV Guidelines relating to the application of Medical Devices and has been tested as a part of the conformity assessment procedures required by 93/42/EEC Medical Device Directive (European Council Directive) 93/42/EEC on Medical Devices).

- ISO 13485:2003
- IEC 62366:2007

SAFETY

- IEC 60601-1:2005
- UL 60601-1:2003
- CAN/CSA C22.2 No 601.1-M90

ELECTROMAGNETIC COMPATIBILITY

- IEC 60601-1-2-2007
- FCC Rules 47 CRF part 15 subpart B
- CAN/CSA 22.2 No 60601-1-2-08

- IEC 62304:2006
- ISO 14971:2007

LASER SAFETY

- IEC 60825-1:1993
- IEC 60825-1:2007

ENVIRONMENTAL COMPLIANCE

- WEEE 2012/19/EC
- RoHS 2 Directive 2011/65/EU

## 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, Orthopaedics and Veterinary Care. 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.

**www.agfahealthcare.com**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