

# CR 15-X

Highly versatile and compact computed radiography solution offering high speed and high image quality by the convenience of being able to combine standard phosphor plates and cesium needle-based detectors on a tabletop CR

- Up to 60% Dose Reduction with cesium needle-based detectors\*
- Affordable for a broad range of applications
- Convenient and fast workflow, with usercontrollable 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
- Highly versatile, compact CR 15-X offers an ideal solution for decentralised hospital environments, clinics and private practices.

The tabletop CR 15-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 15-X, decentralised hospital environments, clinics and private practices can take advantage of the convenient and fast workflow offered by digital radiography.

## Up to 60% Dose Reduction\*

By supporting both standard phosphor plates and needle-based detectors, CR 15-X unites complete convenience with top image quality, while leveraging the radiography department's existing investments. With standard phosphor plates, CR 15-X delivers excellent image quality.

When used with cesium needle-based detectors, however, the CR 15-X provides superb image quality and offers substantial dose reduction of up to 60%.

\* Testing with board certified Radiologists has determined that Cesium Bromide (CR) and Cesium Iodide (DR) Detectors when used with MUSICA processing can provide dose reductions between 50 to 60% when compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa HealthCare for more details.

## Balancing speed and resolution

With the CR 15-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, depending on the specific speed/quality priorities, study by study. Agfa HealthCare's intelligent MUSICA image processing automatically optimizes image quality.



# CR 15-X DIGITIZER



## Robust yet easy to install and maintain

Installing the CR 15-X is fast and easy. 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 15-X digitizer can be placed easily at any location, no matter how small, and was designed with ease of use in mind.

The CR 15-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 15-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	Plate Sizes	Spatial Resolution
■ CR HD5.0S GENERAL (Cesium)	35 x 43 cm (14 x 17") 24 x 30 cm (9.44 x 11.81") 18 x 24 cm (7.08 x 9.44")	35 x 43 cm (14 x 17") 24 x 30 cm (9.44 x 11.81") 18 x 24 cm (7.08 x 9.44")	10 pixels/mm, 5 pixels/mm (including for Full Leg / Full Spine) 10 pixels/mm, 5 pixels/mm 10 pixels/mm, 5 pixels/mm
■ CR MD1.0 GENERAL	35 x 43 cm (14 x 17")  35 x 35 cm (14 x 14") 24 x 30 cm (9.44 x 11.81") 18 x 24 cm (7.08 x 9.44") 15 x 30 cm (5.90 x 11.81")	35 x 43 cm (14 x 17")  35 x 35 cm (14 x 14") 24 x 30 cm (9.44 x 11.81") 18 x 24 cm (7.08 x 9.44") 15 x 30 cm (5.90 x 11.81")	10 pixels/mm (including for Full Leg / Full Spine) 6.6 pixels/mm 5 pixels/mm (including for Full Leg / Full Spine) 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm
■ CR MD1.0F GENERAL	35 x 43 cm (14 x 17")	15 x 30 cm (5.90 x 11.81")	10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm
■ CR DD1.0 VET (*)	35 x 43 cm (14 x 17")  15 x 30 cm (5.90 x 11.81")	s0, s1, s2, s3, s4, equine1 (63 x 180 mm), equine2 (63 x 210 mm), equine3 (90 x 230 mm) s0, s1, s2, s3, s4, equine1 (63 x 180 mm), equine2 (63 x 210 mm), equine3 (90 x 230 mm)	10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm 10 pixels/mm, 6.6 pixels/mm, 5 pixels/mm

(\*) for veterinary use only

## Technical Specifications

### GENERAL

#### Digitizer type

- Single cassette feed
- Throughput: Up to 102 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): 22.83 x 27.55 x 18.54 in  
(580 x 700 x 471 mm)  
Depth without cassette unit and extension:  
14.96 in (380 mm)
- Weight: 66.13 lbs (30 kg)

#### Power

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

#### Minimum requirements

- CR HD5.0S GENERAL DETECTOR
- CR HD5.0S GENERAL CASSETTE
- CR MD1.0 GENERAL PLATE
- CR MD1.0 GENERAL CASSETTE
- CR MD1.0F GENERAL PLATE
- CR MD1.0F GENERAL CASSETTE
- CR DD1.0 VET PLATES
- CR DD1.0 VET CASSETTE
- NX

#### Environmental conditions

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

#### 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° C to +35° C
  - 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

\* this comprises cassette exchange time of 2s

#### 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 62304:2006
- IEC 62366:2007
- ISO 14971:2007

##### Safety

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

##### Laser Safety

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

##### Electromagnetic Compatibility

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

##### Environmental Compliance

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

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## About Agfa HealthCare

Agfa HealthCare is a leading provider of diagnostic imaging and healthcare IT solutions for hospitals and care centers around the world. The business group is a major player on the diagnostic imaging market, providing analog and digital technology, as well as IT solutions to meet the needs of specialized clinicians. The business group is also a key provider on the healthcare information solutions market, integrating the administrative, financial and clinical workflows of individual hospitals and hospital groups. ■

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