CR 85-X Digitizer

CR 85-X is a multi-user digitizer featuring a unique drop-and-go buffer that eliminates waiting times and maximizes productivity

CR 85-X is a multi-application digitizer, benefiting from three different image resolution modes

MAXIMIZING PRODUCTIVITY FOR THE COMPLETE RANGE OF CLINICAL APPLICATIONS

- No waiting times for improved patient care
- Input/output buffer for maximized productivity
- For a broad range of applications
- Three different image resolution modes (pixel pitch [µm] : 50 - 100 - 150)

Highest productivity

The cassette buffer eliminates waiting times and allows for a continuous workflow within the department. Zero-button operation with automated cassette handling makes CR 85-X a highly productive and user-friendly system with a throughput of up to 115 plates an hour, depending on size and application. Using CR 85-X as a central digitizer in the radiology department, multiple examination rooms can be supported.

No waiting

The CR 85-X digitizer requires no manual interaction and all the user has to do is to deposit the cassettes in the input buffer (up to 10 cassettes). The digitizer automatically takes cassettes from the input buffer and reads the demographic data from the memory on the cassette. It then scans the imaging plate, digitizes the image and returns the cassette to the output buffer for new exposures.

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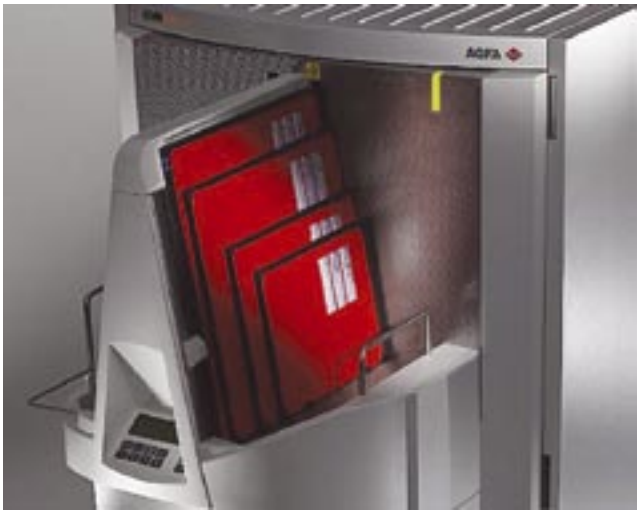


Integrated CR user station for time-saving identification and optimized workflow

Full data

CR 85-X reads imaging plates at a standard resolution of 6 pixels/mm. The high resolution mode of 10 pixels/mm is available for all image plate sizes.
The maximum resolution mode of 20 pixels/mm is available for dedicated 18 x 24 cm and 24 x 30 cm extremities cassettes and plates.

Broad range of applications

In combination with the application-specific plates and cassettes, CR 85-X supports a broad range of applications :

- General radiography
- Orthopaedics – Extremities
- Dental
- Paediatrics

Compact footprint & optimal accessibility

CR 85-X occupies a very small floorspace and at the same time provides unhindered access to several users, both at the input and the output buffer, resulting in a smooth flow of operations. This concept makes CR 85-X the state-of-the-art solution for centralized CR environments.

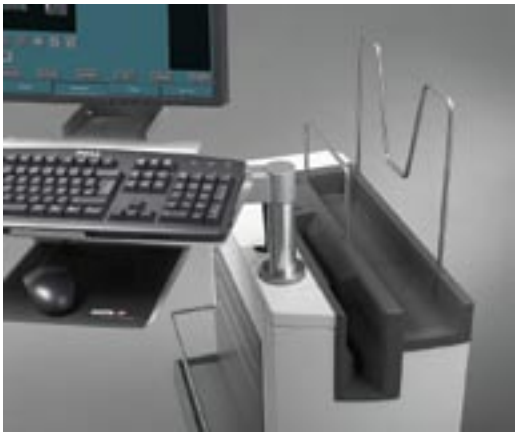
CR user station

Its modular and ergonomic design includes:

- Cassette identification functions
- Space for:
  - Workstation for image handling, processing and dispatching
  - Monitor, network switches and UPS
  - Cassette storage.

An economical way to go digital

CR is compatible with all existing X-ray systems allowing X-ray departments to go digital without significant additional investments and workflow adaptations.



CASSETTE SIZES: CR 85-X

Accepted Cassette Sizes	Spatial Resolution	Pixel Matrix Size
Standard resolution		
35 x 43 cm (14 x 17 in)	6 pixels / mm	2320 x 2828
35 x 35 cm (14 x 14 in)	6 pixels / mm	2320 x 2320
High resolution		
35 x 43 cm (14 x 17 in)	10 pixels / mm (option)	3480 x 4240
35 x 35 cm (14 x 14 in)	10 pixels / mm (option)	3480 x 3480
35 x 43 cm (automatic collimation to 21 x 43 cm)	10 pixels / mm	2020 x 4240
24 x 30 cm	10 pixels / mm	2320 x 2920
18 x 24 cm	10 pixels / mm	1720 x 2320
15 x 30 cm	10 pixels / mm	1420 x 2920
8 x 10 in	10 pixels / mm	1950 x 2460
10 x 12 in	10 pixels / mm	2460 x 2970

SAFETY

Region	Regulation	X-ray	Laser
Europe	EN 60601-1: 1990 + A1: 1993 + A2: 1995 EN 60601-1-2: 2001	Regulation: 1987	EN 60825 - 1:2001
USA	UL 2601 21CFR part 820: good manufacturing practice for medical devices	DHHS/FDA 21 CFR part 1002, subchapter B	DHHS/FDA 21 CFR parts 1040, 10 and 1040, 11
Canada	CSA22.2 No.601.1 No.601.1.2		

technical

SPECIFICATIONS

GENERAL

Cassette buffer capacity and performance
- 10 cassettes of mixed sizes, both in input and output buffer
- throughput: up to 112 plates/h (depending on size and application)

LCD display
- Machine status and error conditions

Greyscale resolution
- Data acquisition: 12 bits/pixel
- Output to processor: 12 bits/pixel

Dimensions and weight
- W x D x H: 84 x 115 x 142 cm (33 x 45 x 56 in)
- At foot: 84 cm (33 in)
- At buffer: 142 cm (56 in)
- Weight: Approx. 397 kg (875,2 lbs)

Power
- 50/60 Hz single phase
- 240V +10%, max. fuse 16A
- 230V ±10%, max. fuse 16A
- 208V ±10%, max. fuse 15A (e.g. USA)
- 200V ±10%, max. fuse 15A (e.g. Japan)

Environmental conditions
- Temperature: 20 - 30 °C (68 - 86°F)
- Humidity: 15 - 75% RH
- Magnetic fields: max. 12.60 µT
- Rate of change of temperature: 0.5°C/minute (0.9°F)

Environmental effects
- Noise level: max. 65 dB (A)
- Heat dissipation: standby 350 W, max. 2000 W

SAFETY

Approvals
- TüV, UL, cUL, CE

Transport details
- Temperature: -25 to +55°C (-4 to 131°F), -25°C for max. 72 hours, +55°C for max. 96 hours
- Humidity: 5 - 95% RH

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