

MP3510

HIGH PRODUCTIVITY CR READER

KCAT and short description:

K2025JA Centricity CR MP3510 Reader

Long description:

The MP3510 Reader is a next-generation high productivity CR reader. Improvements over the previous version MP3010 include better optics, faster scanning, resulting in higher throughput speeds when used with MD40 plates, conversion from three phase to single phase power for easier installation, as well as advanced cassette/plate handling robotics. The MP3510 scans the exposed photostimulable phosphor imaging plate, converts the information into 12-Bit digital data and automatically transfers the image to the server PC for processing. The MP3510 consists of a Multi-plate reader with 10 cassette buffer and network connections for transmission of data to the workstation. Features include optimum image quality, user-efficiency with no button operation and no waiting, quality monitoring and feedback.

Make the move to digital

The Centricity CR MP3510 is an ideal first step in your move to digital imaging. This computed radiography system converts the information into digital data and automatically transfers the image to the processing server for further processing and visualization. All you need to do is deposit the cassettes at the CR reader. The Centricity CR MP3510 automatically takes the cassettes from the input buffer, reads the demographic data from the memory on the cassette, scans the imaging plate, digitizes the image and returns the cassette to the output buffer, ready for the next exposure.



Fast and efficient

The Centricity CR MP3510 converts an X-ray image into digital data and automatically transfers the image to the processing server for further enhancement and visualization. There are no manual steps required. The Centricity CR MP3510 can handle up to ten cassettes at a time, making it ideal for busy radiology departments. Compact in size, the Centricity CR MP3510 easily fits into tight floor spaces. But compact doesn't equal compromised performance. This system provides unhindered access for two users, one at the input and one at the output buffer. The result is a smooth flow for personnel.



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Productivity

Cassette buffers eliminate waiting times and bring the average throughput close to maximum. When cassettes are in the input buffer, the system operates automatically at maximum speed, without idle times. Zero button operation with automated cassette handling makes the system highly productive and user friendly.

Optimum image quality

The Centricity CR MP3510 reads the imaging plates with 12-bits/pixel grayscale resolution. The complete raw data set is transmitted to the processing server. Spatial resolution can range from 7 to 10 pixels/mm. Standard resolution reading of 35 x 43 cm and 35 x 35 cm imaging plates provides readout with 7 pixels/mm. Optionally, high-resolution reading is available for these large plate sizes providing 10 pixels/mm. Reading of 24 x 30 cm, 18 x 24 cm and 15 x 30 cm imaging plates is done at 10 pixels/mm, standard.

First step to digital

Centricity CR cassettes are compatible with conventional X-ray tables, so you can go digital – simply and cost-effectively. And the high productivity of the Centricity CR system makes it a cost-effective building block for the all-digital X-ray department.

Technical Information

Dimensions

Length:

at cassette buffer: 1141 mm

at foot: 840 mm

Width: 840 mm

Height: 1420 mm

Weight: Unpacked 320 kg

Power consumption

Standby: approx. 300 W

Maximum: approx. 1700 W (=8.5 A)

Self-adapting power supply range:

- 200 V (-10 %) to 240 V (+10 %)
- 50-60Hz

Environmental requirements

Room temperature 20° C – 30° C (IEC721-3-3 class 3K2),
Maximum temperature change 0.5° C/min.

Relative humidity 10 % – 80 %

Magnetic field less than 5 Gauss; compliant with
EN 61000-4-8, Level 5

Sunlight exposure: not to be operated in full sunlight

Cassette buffer capacity

10 cassettes of mixed sizes, both in input and output buffer

Performance

Throughput for high resolution 80 plates/h on average
(size dependent)

Throughput for standard resolution 95 plates/h on average
(size dependent)

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Grayscale resolution

Data acquisition: 12-bits/pixel

Output to processor: 12-bits/pixel

Spatial resolution

35 x 43 cm (14 x 17 in.) HR 10 pixels/mm

35x 43 cm (14 x 17 in.) SR 7 pixels/mm

21 x 43 cm HR 10 pixels/mm

35 x 35 cm (14 x 14 in.) HR 10 pixels/mm

35x 35 cm (14 x 14 in.) SR 7 pixels/mm

30 x 24 cm HR 10 pixels/mm

30 x 24 cm Mammography 10 pixels/mm

24 x 18 cm HR 10 pixels/mm

24 x 18 cm Mammography 10 pixels/mm

30 x 15 cm HR 10 pixels/mm

10 x 8 in. HR 10 pixels/mm

12 x 10 in. HR 10 pixels/mm

Scan area (scan width x scan length)

HR: High resolution;

SR: Standard resolution

35x 43 cm (14 x 17 in.) HR & SR 348 x 424 mm

21x 43 cm HR 202 x 424 mm

35x 35 cm (14 x 14 in.) HR& SR 348 x 348 mm

30x 24 cm HR 292 x 232 mm

30 x 24 cm Mammography 292 x 238 mm

24x 18 cm HR 232 x 172 mm

24 x 18 cm Mammography 232 x 178 mm

30x 15 cm HR 292 x 142 mm

10 x 8 in. HR 246 x 195 mm

12 x 10 in. HR 297 x 246 mm



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