HEALTHCARE

> *ADC™ Compact Plus™ Digitizer*

○ **Maximizing Throughput and Staff Productivity as You Begin the Transition From Analog to Digital**

> Optimal Productivity and Ease-of-use

The ADC Compact Plus digitizer accommodates multiple users and features a drop-and-go buffer that eliminates waiting times; all the user has to do is to deposit cassettes. The ADC Compact Plus digitizer 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 for new exposures.

No Waiting

The input/output buffer system of the ADC Compact Plus digitizer takes up to ten cassettes at a time. A user can immediately deposit cassettes and return to the patient. Waiting times at the digitizer are eliminated and staff productivity is maximized.

Compact Footprint

The ADC Compact Plus digitizer occupies a very small floorspace and allows two users unhindered access, one at the input and one at the output, resulting in a smooth flow of operations. It is ergonomically designed to ensure an efficient and safe workplace.

High Productivity

The cassette buffers virtually eliminate waiting times for the staff and bring the average throughput of the system close to maximum: when cassettes are in the input buffer, the system operates automatically at maximum speed, without idle times. No-button/no-switch operation with automated cassette handling makes the ADC Compact Plus digitizer a highly productive and user-friendly system, with a throughput of 90–100 plates an hour depending on size.

Automated CR plate reading with no manual interaction necessary

Waiting times are virtually eliminated; users simply deposit cassettes

Maintains equity of current equipment investment while charting a path to digital

Simple operation and automated cassette handling processes up to 100 plates per hour

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> Specifications

Dimensions:
(w × d × h)
33" × 45" × 56"
At foot: 33"
At buffer: 56"

Weight:
Approx. 705 lbs.

Performance:
Throughput:
90 to 100 plates/hour
(depending on size)

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

Cassette Buffer Capacity:
10 cassettes of mixed sizes, both in input and output buffer

Accepted Cassette Sizes:
14" × 17" (35 × 43 cm)
14" × 14" (35 × 35 cm)
10" × 12" (24 × 30 cm)
6" × 12" (15 × 30 cm)
8" × 10" (18 × 24 cm)

Grayscale Resolution:
Data acquisition:
12 bits/pixel
Output to processor:
12 bits/pixel

Standard Resolution:
14" × 17" (35 × 43 cm):
2320 × 2826
14" × 14" (35 × 35 cm):
2320 × 2320

High Resolution:
14" × 17" (35 × 43 cm):
(optional) 3480 × 4240
14" × 14" (35 × 35 cm):
(optional) 3480 × 3480
8" × 17" (21 × 43 cm)
(partial scan of 14" × 17" (35 × 43 cm) cassette):
2020 × 4240
10" × 12" (24 × 30 cm):
2320 × 2920
10" × 12" (24 × 30 cm):
mammo implant
2380 × 2920
8" × 10" (18 × 24 cm):
1720 × 2320
8" × 10" (18 × 24 cm):
mammo implant
1780 × 2320
6" × 12" (15 × 30 cm):
1420 × 2920

Spatial Resolution:
Reading sampling frequency:
14" × 17" (35 × 43 cm):
6 pixels/mm
14" × 14" (35 × 35 cm):
6 pixels/mm
14" × 17" HR (35 × 43 cm HR): 10 pixels/mm (option)
14" × 14" HR (35 × 35 cm HR): 10 pixels/mm (option)
10" × 12" (24 × 30 cm):
10 pixels/mm
8" × 10" (18 × 24 cm):
10 pixels/mm
6" × 12" (15 × 30 cm):
10 pixels/mm

LCD Display:
Machine status and error conditions

Environmental Conditions:
Temperature: 68 – 86°F (20 – 30°C)
Humidity: 10 – 80% RH
Magnetic fields: max. 12.60 μT
Rate of temperature change: 0.9°F/min.

Environmental Effects:
Noise level: max. 65 dB (A)
Heat dissipation: standby 350 W maximum 2000 W

Safety Standards:
Europe:
EN 60950: 1997 and EN 60601-1: 1990 + A1: 1993 + A 2: 1995
USA:
UL 1950 resp. UL2601
Canada:
CSA22.2 No.950 resp. CSA22.2 No.601.1 No.601.1.2
CSA22.2 No.601.1.2

X-ray:
Europe:
X-ray regulation 1987
USA:
DHHS/FDA 21 CFR part 1002, subchapter B

Laser:
Europe:
EN 60825 – 1:1994
USA:
DHHS/FDA 21 CFR parts 1040, 10 and 1040, 11

Approvals:
TüV, GS, UL, CUL, CE, CSA

Full Data

The ADC Compact Plus digitizer reads the imaging plate with 12 bits/pixel grayscale resolution. The complete raw data set is transmitted to the image processing computer. Spatial resolution ranges from 6–10 pixels/mm, depending on the imaging plate size.

Standard resolution provides readout with approximately 2.3×2.8K pixel matrices. High resolution reading is available with readout at 10 pixels/mm. All plate sizes are delivered with high resolution readout, except for 35×35 cm and 35×43 cm plates which are supplied with standard resolution. These plates are also available with optional high resolution readout.

Analog to Digital, Economically

ADC Compact Plus cassettes are compatible with conventional X-ray tables. The ADC Compact Plus allows conventional X-ray departments to adopt digital technology without additional investments in digital X-ray units.

The optimal productivity of the ADC Compact Plus digitizer makes it a cost-effective building block for the transition to a fully digital X-ray department.

For the latest information on product specifications and features, visit our website at:
www.agfa.com/healthcare

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