



Schaef
Systemtechnik
GmbH



DR-Factory

A4343 Flatpanel Detector

DR made carbon neutral

DR Factory A 4343 is a 43 x 43 cm square format flat panel digital x-ray detector designed general radiology applications.

The A 4343 System is targeted at the retrofit market and planned to go into both wall mounted or upright chest stands and bucky table setups to turn formerly analog or CR based rooms into fully integrated digital x-ray solutions.

Due to its modular structure and the DRF general purpose interface box the A 4343 can interface to any x-ray system easily and securely with minimum integration effort. To synchronize to the x-ray system is typically a matter of minutes.

More sophisticated integration to the x-ray generator is possible and can be achieved utilizing a variety of different integration modules.

While allowing for seamless integration the A 4343's internal high speed data interfaces minimize acquisition times to just under one second for a full 43 x 43 cm image.

Feature

High DQE

Due to its sophisticated a-Si technology the A 4343 provides top values for DQE allowing for very good raw data, low noise and high dynamic range at a very low dose.

Low temperature gradient

The system is producing very good results even when temperature conditions change so that calibration runs are reduced to a minimum.

Flexical

The Flexical calibration concept implemented in the A 4343 allows for optimized dynamic range at minimum dose for all relevant energy levels. Flexical assures artifact free operation of the device even under high Energy conditions.

Low power consumption

Because the A 4343 has been optimized to consume only a minimum of electrical power the need for ventilation and therefore the need for spacious and noisy venting devices has been minimized. In addition to very good system stability (due to low temperature) it was possible to make the device carbon neutral by offsetting the small carbon footprint of the device.

DR-Factory post processing filters

DR-Factory is paying a lot of attention to the development and implementation of a set of post processing filters which not only are being optimized by medical discipline, organ and procedure but also by regional market requirements such as special filtering for "low kV or high kV" markets.

Docking station

The DR-Factory Docking Station which is coming with the systems has been designed to allow for high and robust routine productivity.



Benefits

- High quality digital images due to excellent DQE and MTF figures.
- Very good dose efficiency (400 film speed of GADOX and 600 for CSI) can be expected.
- Short acquisition time.
- Multi detector links are possible.
- Synchronizing with a large variety of Generators.
- High productivity: no rotation
- Wide dynamic range (14 bit)

Schaef Systemtechnik GmbH
Falkenstrasse 22
91580 Petersaurach
Germany

Tel.: +49 98 72 / 20 02
Fax: +49 98 72 / 28 23

eMail: info@sstmed.com



Schaefer
Systemtechnik
GmbH

DR Factory A4343 Flatpanel

Specifications - General Type

Application	General radiography
Sensor	a-Si TFT array Flat Panel Detector
Conversion screen	CsI : TI / DRZ (premium Gd ₂ O ₂ S: Tb)
Active capture size	Automatic sizing up to 17 x 17 inch (439 x 439 mm)
Sensor Pixel	3,072 x 3,072 (9.4M pixels)
Pixel Pitch	143 µm
Limiting Resolution	3.5 lp/mm
A/D Conversion	14 bits
Image Preview	0.8 sec (approx.)
Capture Cycle Time	3 sec (come under User setting)
Interface	Gigabit Ethernet (Auto 1000/100/10M Base T) Ethernet cable and D-Sub cable support Gigabit connection Single D-Sub cable support over 100/10M connection
Voltage	AC 90~240V, 50/60Hz
Power consumption	35VA maximum
Environment	Storage : -20°C ~ 60°C, 10% ~ 90% RH (non-condensing) Working : 10°C ~ 35°C, 20% ~ 75% RH (non-condensing)
Dimensions (W x L x T)	500 x 500 x 40 mm
Weight	12.7 kg

Specifications - Portable Type

Application	General radiography
Sensor	a-Si TFT array Flat Panel Detector
Conversion screen	DRZ (premium Gd ₂ O ₂ S: Tb) / CsI : TI
Active capture size	Automatic sizing up to 17 x 17 inch (439 x 439 mm)
Sensor Pixel	3,072 x 3,072 (9.4M pixels)
Pixel Pitch	143 µm
Limiting Resolution	3.5 lp/mm
A/D Conversion	14 bits
Image Preview	0.8 sec (approx.)
Capture Cycle Time	3 sec (come under User setting)
Interface	Gigabit Ethernet (Auto 1000/100/10M Base T) Ethernet cable and D-Sub cable support Gigabit connection Single D-Sub cable support over 100/10M connection
Voltage	AC 90~240V, 50/60Hz DC 24V, 2.5A (used by external battery power)
Power consumption	24VA continued 35VA maximum
Environment	Storage : -20°C ~ 60°C, 10% ~ 90% RH (non-condensing) Working : 10°C ~ 35°C, 20% ~ 75% RH (non-condensing)
Dimensions (W x L x T)	535 x 500 x 38-40 mm (including hand grip)
Weight	9 kg

Schaefer Systemtechnik GmbH
Falkenstrasse 22
91580 Petersaurach
Germany

Tel.: +49 98 72 / 20 02
Fax: +49 98 72 / 28 23

eMail: info@sstmed.com

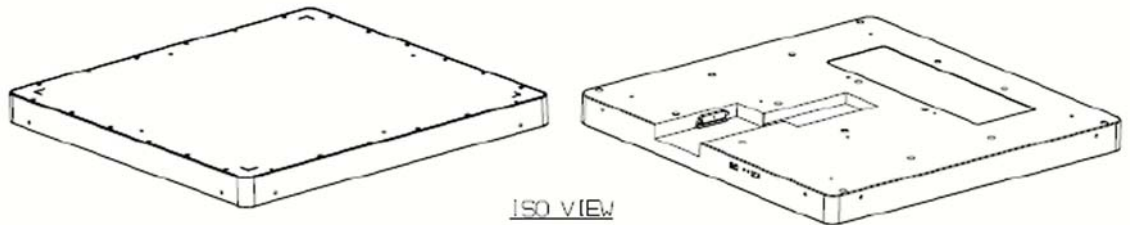


Schaef
Systemtechnik
GmbH

DR Factory A4343 Flatpanel

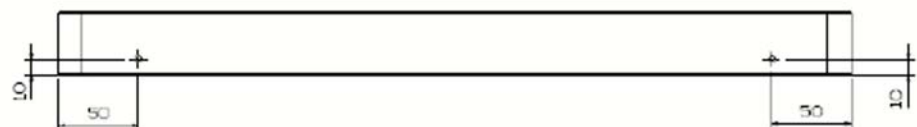
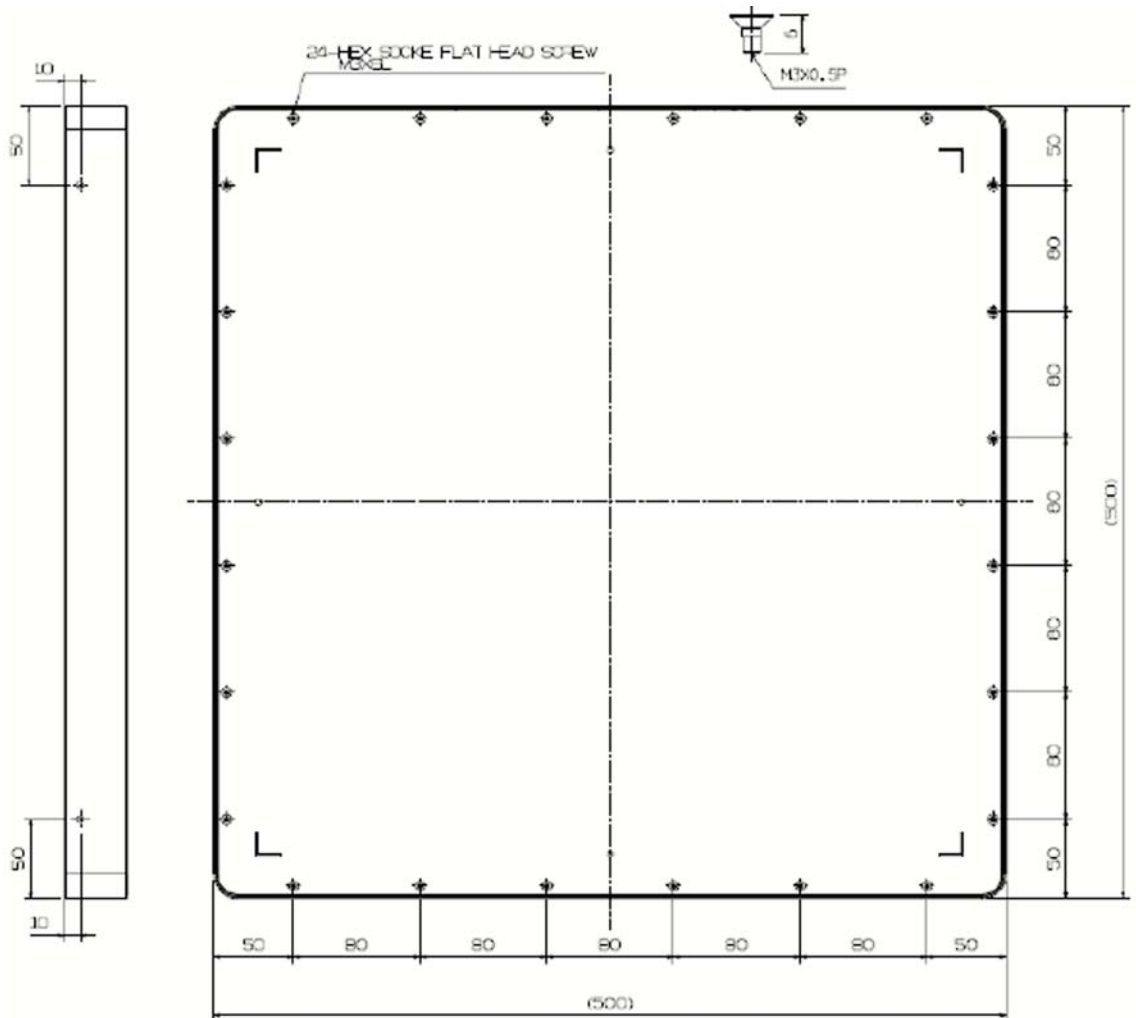
Drawings - General Type

For Reference only. Can be changed without notification.



Threaded holes glass surface side

Dimensions in mm



Schaef Systemtechnik GmbH
Falkenstrasse 22
91580 Petersaurach
Germany

Tel.: +49 98 72 / 20 02
Fax: +49 98 72 / 28 23

eMail: info@sstmed.com



DR Factory A4343 Flatpanel

Drawings - Portable Type

For Reference only. Can be changed without notification.

