

> **DRYSTAR™ 4500 M**

Optimized image quality in digital mammography

> **The DRYSTAR 4500 M imager is a high-resolution, high-throughput, dual film-size dry hardcopy system dedicated to digital mammography.**

Close-to-application imaging

DRYSTAR 4500 M's small footprint and low investment cost mean that prints can be made where you need them: right next to you! There will always be room for this floorstanding unit within direct reach of the application it serves, even in the most space-restricted environment.

New optimized mammography media for high resolution

The new DRYSTAR 4500 M imager uses DRYSTAR Mammo media, specially developed and optimized for mammography applications. The best results are obtained when using them together. With its high maximum density ($D_{max} > 3.5$), even the most subtle grey-level changes required for mammography applications can be visualized. With its 508 ppi, DRYSTAR 4500 M produces sharp images ideally suited for digital mammography.

Two film trays/two media sizes on line

DRYSTAR 4500 M features two media trays. The top tray can hold up to 100 sheets of 8 x 10" media, while the bottom tray also holds either 100 sheets of 8 x 10", for increased capacity or 10 x 12" to print images from larger size detectors.

Two applications, one printer

In most mammography examination centres, ultrasound modalities are on site for complementary examinations. With its two film trays, DRYSTAR 4500 M make prints from both applications on dedicated media. So while the top tray holds DRYSTAR Mammo for digital mammography images, the bottom tray can be configured for DRYSTAR DT 1 B media (8 x 10" or 10 x 12") for ultrasound images. This means DRYSTAR 4500 M can cover all your department's printing requirements.

Small footprint and low investment



Optimum results with DRYSTAR Mammo media

Dual film sizes on-line



Reliable by design, easy to use

The DRYSTAR 4500 M imager can be integrated in the digital Embrace™ systems. Embrace is the complete portfolio of Agfa's Women's Care Solutions.



Embrace

Agfa offers systems for digital mammography. For some systems, DRYSTAR 4500 M with DRYSTAR Mammo media completes the configuration. One of these systems, CR Embrace, is based on the ADC Compact Plus digitizer with dedicated Embrace Mammo Plates and Cassettes. Additional dedicated Mammo software on ADC QS or ADC VIPs is necessary to process the mammography image before it can be printed on the DRYSTAR 4500 M imager.

Built-in quality assurance

DRYSTAR 4500 M has a built-in macro densitometer, specifically developed for mammography applications, to check film calibration and image quality. Furthermore, an automatic Quality Assurance tool is provided for daily quality checks.

High productivity

DRYSTAR 4500 M can print up to 80 sheets/hour in 8 x 10" and up to 60 sheets/hour in 10 x 12", so it fits perfectly in a department with several imaging modalities, matching the performance and functionality of them all.

Full DICOM compliancy

DRYSTAR 4500 M, like all the DRYSTAR family of imagers, is fully DICOM compliant.

Environmental benefits

The DRYSTAR family of printers received the European Environmental "Product Award for Sustainable Development" in appreciation of their improved environmental performance over conventional systems.

General

Dimensions

W x D x H: 55 x 72 x 92 cm
21.6 x 28.3 x 36.2"

Weight

95 kg/209.4 lb

Power requirements

Auto ranging 100 – 240 V: 50/60 Hz

Power consumption

Average: 300 Watt

Peak: 530 Watt

Media supply trays

Upper input tray 8 x 10", 100 sheets

Lower input tray configurable for 8 x 10" or

10 x 12", 100 sheets

Operating conditions

Temperature: 10 - 35 °C (50 - 95 °F)

Humidity: 10 - 80% RH, non-condensing

Storage / Shipping conditions

Temperature: -25 °C to +55 °C (-11 to 131 °F)

(+70 °C/158 °F for transport)

Humidity: 10 - 95% RH, non-condensing.

Heat dissipation

Standby power: 100W / 360kJ/h

Average printing power: 300W / 1080kJ/h

Peak power: 530W / 1908kJ/h

Safety

IEC 601-1

IEC 601-1-1

UL2601

CSA 22.2 no. 601.1-M90

VDE 0750

DOH

Performance

Throughput

8 x 10":

80 films/hour (45 sec per film);

access time first film: 90 sec.

10 x 12":

60 films/hour (60 sec per film);

access time first film: 120 sec.

Addressable print area

8 x 10": 3832 x 4844 pixel

10 x 12": 4844 x 5856 pixel

Printing resolution

Geometrical: 508 ppi

Contrast: 8/12 bit contrast resolution

Connectivity

Ethernet TCP/IP, FTP, Telnet, HTTP, SNMP,

SMTP, LPD

Image formats: DICOM, TIFF, and optional

Postscript®

Media

Media types

1. DRYSTAR Mammo blue base media optimized for mammography

2. DRYSTAR DT 1 B blue base media and DRYSTAR TM 1 C new clear base media

Media sizes

Two on-line media sizes: 8 x 10" and 10 x 12"

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