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SOLUTIONS

DRYSTAR 5503

Imager

DRYSTAR 5503 is a high-throughput, high-resolution, multiple media size

Direct Digital imager that can be easily networked for optimal productivity.

AGFA

> Excellent imaging quality across all applications

> Multi-modality

> Multi-format with 3 media sizes on-line

> Diagnostic quality greyscale hardcopies of high quality

> Unique sorter function

> Mammography printing option

By bringing together a diversity of modalities within an appropriate user-friendly integration – sharp high resolution imaging, leading-edge technology, excellent media and optimal user-friendliness – DRYSTAR 5503 is well equipped to serve the multiple demands of a busy department.

Improved workflow across departments

Offering high throughput of up to 100 14 x 17" sheets/hour, unique multi-format architecture and sorting by modality function, DRYSTAR 5503 is a versatile partner capable of handling a diversity of printing tasks from different sources with speed and reliability.

Every pixel tells a story

The Direct Digital Imaging technology employed by DRYSTAR 5503 is not only fast and clean, it is also one of the best ways of translating the high-resolution capability of 508 ppi at a spot size of 50µm to a final image. Agfa's Direct Digital Imaging technology performs well beyond current industry standards, providing that every pixel in the image is fully software controlled for virtually flawless and consistent image quality. A significant reduction in wear and tear is due to an equally significant reduction in moving parts as a result of using Direct Digital Imaging technology.

Multi-format and 3 media sizes on-line

DRYSTAR 5503 features multiple-format handling, with the three most popular media sizes and/or types permanently on-line. The imager is thus capable of delivering CT, MRI, DSA, digital R&F, CR and DR images at high speed onto different Agfa dry film.
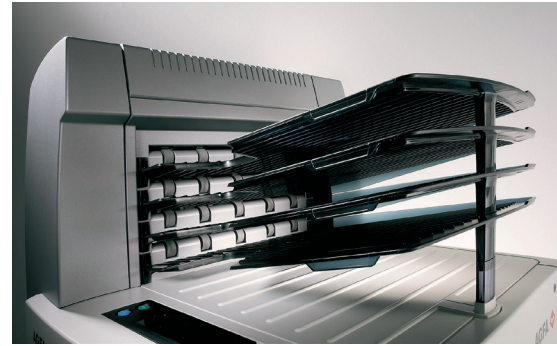
The DRYSTAR 5503 comes with three input trays. Every input tray can use five different film formats, ranging from 8 x 10" to 14 x 17", making the final image versatility of this stand-alone, small footprint unit remarkable. And what DRYSTAR 5503 gains in versatility, the user gains in convenience and time.
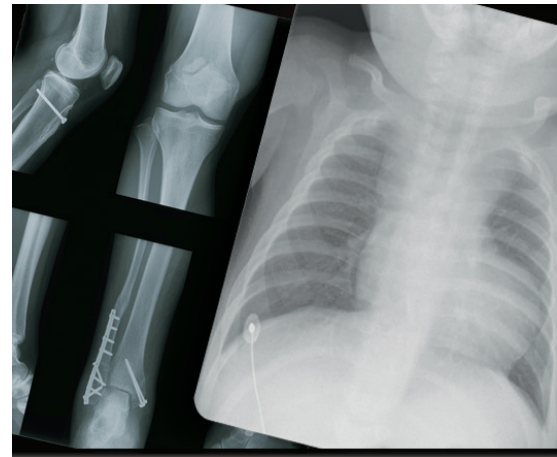
Sorting it out

In order to increase efficiency and user-friendliness, DRYSTAR 5503 has a unique sorter function. This supports that whichever modality is being served, whichever print command is currently being handled, all tasks will be carried out and sorted, according to modality or patient record, if available. With DRYSTAR 5503, high traffic density input no longer means bottlenecks and slow-speed output at the imager, virtually eliminating log jams.

Enhancing imaging quality

As part of our continual drive to provide you with perfect image quality, our award winning Direct Digital Imaging (DDI) technology has been enhanced to include A#Sharp technology. This technology intensifies imaging capability, enabling DDI to provide sharper image quality across all applications.

Unique sorter eliminates high-traffic bottlenecks

High resolution of 508 ppi

3

Three media trays for different on-line media sizes

Integrated print solution

Through its intelligent matching of Direct Digital Imaging technology, media and imager, DRYSTAR 5503 is ideally suited to stand at the heart of an Agfa integrated solution. Its leading-edge Agfa dry film delivers excellent, diagnostic quality greyscale hardcopies. Because it is heat sensitive rather than light sensitive, Agfa dry film offers the convenience of daylight loading. The dry imaging technology means no more wet processing, no darkroom, no complicated adjustments or cleaning procedure, and no chemical disposal costs. Agfa dry film can be used in all formats: 8 x 10", 10 x 12", 11 x 14", 14 x 14" and 14 x 17".

Increasing performance for mammo

As an option, DRYSTAR 5503 can also print mammography images. Using our dedicated Agfa dry Mammo film provides you high image quality, in accordance with mammography standards. With its 508 dpi resolution and the A#Sharp technology, DRYSTAR 5503 produces sharp images, ideally suited for digital mammography. An automatic quality assurance tool is built in to help you with your daily quality checks. Images can be printed on 8 x 10" film, as well as on 10 x 12" film for modalities with larger detectors. As a third film size for mammography we also offer 11 x 14". In the mammography mode, the DRYSTAR 5503 can print up to 140 8 x 10" mammo films per hour, fitting easily into an environment with several modalities, while supporting full performance for the mammography department.

Technical Specifications

General

Dimensions & weight

Dimensions (W x D x H): 72 x 71.5 x 141 cm (28.3 x 28.1 x 55.5")
Weight (without film): 193 kg (425 lbs)

Power requirements

Auto ranging 100 – 240 V: 50/60 Hz

Power consumption

Average: 450 Watt
Peak: 700 Watt
Standby: 200 Watt

Capacity of supply tray

100 sheets per supply tray

Heat dissipation

Standby power: 200 Watt / 720 kJ/h
Average printing power: 450 Watt / 1620 kJ/h
Peak power: 700 Watt / 2520 kJ/h

Environmental requirements

Operation

Temperature: +15 ~ +30° C (59 to 86° F)
Humidity: 20 ~ 75% Rh (non condensing)

Storage and transportation

Temperature: –25 ~ +55° C (–13 to 131° F),
for transport: –40 ~ +70° C (–40 to 158° F)
Humidity: 10 ~ 95% Rh (non condensing)

Performance

Throughput:
· 8 x 10": 160 sheets/hour (23 sec/sheet) for Genrad
· 14 x 17": 100 sheets/hour (36 sec/sheet) for Genrad
Access time first sheet:
· 8 x 10": 57 s
· 14 x 17": 76 s
Addressable print area:
· 8 x 10": 3892 x 4920 pixels
· 14 x 17": 6962 x 8408 pixels

Printing resolution

Geometrical: 508 dpi
Spot size: 50 μm
Pixel depth architecture: 14 bit

Connectivity

Ethernet TCP/IP
Protocol: DICOM 3.0

Media

Types:
· Agfa dry film: blue base
· Agfa dry film: clear base
· Agfa dry Mammo film
Sizes:
· 8 x 10", 10 x 12", 11 x 14", 14 x 14" and 14 x 17" for Agfa dry film
· 8 x 10", 10 x 12", 11 x 14" for Agfa dry Mammo film
· 3 on-line sizes

Media supply trays

All three trays configurable for 100 sheets of
8 x 10", 10 x 12", 11 x 14", 14 x 14" or 14 x 17" film

Safety

Standard:
· IEC 60601-1 + A1 + A2
· EN 60601-1 + A1 + A2
· UL 60601-1
· CSA 22.2 no. 601.1-M90
· GB 4943-2001

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