Medical Film Printer

Medical film printer, which sends image datum in Dicom format via network and then forms images by the thermal imaging technology. It can perfectly meet the needs of CT, MRI, DR and CR.

Product Name
- Medical film printer

Type
- 5302

Application Fields
- X-ray, CT, MRI, etc.

Spatial Resolution
- 320 dpi(12.6pixels/mm)

Media Sizes
- 8x10in, 10x12in, 11x14in, 14x17in

Media
- Thermal film

Media Inputs
- 2 supply cassettes, 100 sheets each

Printing Resolution
- 14bits printing

Throughput
- 8×10in: 130 sheets/hour (28 sec. per sheet)
- 11×14in: 86 sheets/hour (42 sec. per sheet)
- 14×17in: 75 sheets/hour (48 sec. per sheet)

Access time first sheet: 77 sec. (14x17in-12-bits)

Dmax
- ≥ 3.0 D

Archival
- > 20 years under ANSI extended-term storage conditions

Media Supply
- All films are pre-packaged and factory sealed

Image Formats
- Standard: DICOM, TIFF, GIF, PCX, BMP, PGM, PNG, XWD, JPEG, SGI(RGB), Sun Raster, Targa
- Optional: PostScript™ compatibility

Image Quality
- Manual calibration

Image Control
- Gamma, Contrast, Polarity, Rotation, Scaling, Antialiasing

Sheet Control
- Density adjustment (Dmax), look-up tables (LUT), image warnings, captions, sheet coverage, border fill, crop anchor

Sheet Formatting
- 1:1-1:81; Variable multi-formatting (VMF™), fixed multi-formatting (FMF™)

Control Panel
- Large, backlit LCD display, status lights include online, alert, fault, active power and menu navigation buttons

Processor
- Intel

Removable Storage
- USB for software upgrades

Network Protocols
- Standard: 24 DICOM connections, FTP, LPR
- Optional: Windows network printing

Time to Operate
- 5 minutes (ready to print from "off")

Power
- Universal Input: 100-120/230VAC～50/60Hz, 400W printing, 45W idle

Noise
- Printing: ＜60db
- Idle: ＜50 db

Storage Environment
- Temperature: -22℃-50℃
- Humidity: 30%-80% (non-condensing)

Operating Environment
- Temperature: 15℃-30℃
- Humidity: 35%-75%(non-condensing)

Weight
- 90Kg

Engine Dimensions
- 728 mm (L) ×715 mm (W) ×536mm(H)

Medical Film Printer

Medical film printer, which sends image datum in Dicom format via network and then forms images by the thermal imaging technology. It can perfectly meet the needs of CT, MRI, X-ray and other imaging application.

Product Name
- Medical film printer

Type
- 369-1
- 369-2

Application Fields
- X-ray, CT, MRI, etc

Spatial Resolution
- 369-1: 320dpi
- 369-2: 508dpi

Media Sizes
- 8×10in, 10×12in, 11×14in, 14×17in

Media
- Thermal film

Media Inputs
- 2 supply cassettes, 100 sheets each

Print Technology
- Direct thermal(dry, daylight safe operation)

Media Supply
- All media is pre-packaged and factory sealed

Throughput
- 14×17in: About 60 sheets/hour
- 8×10in: About 85 sheets/hour

Grayscale Contrast Resolution
- 14bits(16, 384)

Interfaces
- 10/100 Base-T Ethernet (RJ-45)

Network Protocols
- DICOM connection

Image Formats
- DICOM

Image Control
- Gamma, Contrast, Polarity, Scaling

Control Panel
- Backlit LCD display, status lights include online, alert and fault

Processor
- Intel

Memory
- 4GB

Hard Disk
- 500GB

Power
- 100V-240V～50/60Hz, 600Wprinting, 75W

Weight
- 45Kg

Engine Dimensions
- 730mm(L)×518mm(W)×415mm(H)

Operating Temperature
- 10℃-35℃

Operating Humidity
- 35%-75%(non-condensing)

Optimal Operating Temperature
- 22.2℃

Storage Humidity
- 30%-80%(non-condensing)

Storage Temperature
- -22℃-50℃

Medical Film Printer

Medical inkjet film printer, which receives image datum in Dicom format via CLEAR software, and then output images. With CLEAR specified ink, it can perfectly meet the needs of CR, DR imaging application, and even CT, MRI and other imaging application.

Product Name
- Medical film printer

Type
- Epson: L1300, L310, L130, L313
- Canon: G1000, G1010, G1080

Application Fields
- With black ink: CR, DR, CT, MRI, etc.
- With color ink: B ultrasound, Endoscope, PET-CT, PET-MR, CT 3D reconstruction, etc.

Spatial Resolution
- 9600×2400dpi

Media Sizes
- Epson L1300
  8×10in, A4, 10×12in, 11×14in,14×14in, A3, 13×17in
- Epson L310, L130, L313
  8×10in, A4
- Canon G1000, G1010, G1080
  8×10in, A4

Media
- Medical dry film (Black Ink)
- Medical color film （Color Ink）

Film Supply
- By sheet

Throughput
- 8×10in:25 sec. per sheet at economic mode

Ink
- Black Ink: **C**（**2**#）, **M**（**3**#）, **Y**（**4**#）, **BK**（**1**#）, 70mL/bottle
- Color Ink: C, M, Y, BK, BK, 70mL/bottle

Film Supply
- One supply cassettes containing 50 sheets

Interfaces
- USB Port: Hi-Speed USB
- Direct Printing Port: Pict Bridge

Operating Environment
- Temperature: 5℃-35℃
- Humidity: 35%-75%(non-condensing)

Power
- AC 100-240V～50/60Hz

Heat Emission
- Printing: About 20W
- Idle: About 1.3W
- Power off: About 0.5W

Operating System
- Windows XP, Vista, 7, 8, 10

Processor
- 1GHz

Explorer
- Internet Explorer 7 or a update version

Dimensions
- 705mm(L)×322mm(W)×215mm(H)

Weight
- 12. 2Kg(excluding ink)

Medical Film Printer

Ultrasound medical film printer（inkjet）, using the specified ink provided by CLEAR, prints the matched medical film like ultrasound and PET-CT, then cut automatically. The quality of medical color film meets the medical diagnostic requirements in all kinds of hospitals.

Product Name
- Medical film printer

Type
- 361-4

Application Fields
- B ultrasound

Spatial Resolution
- 9600x2400dpi

Media Sizes
- A4, A6

Media
- Rolling medical color film

Film Supply
- A6: 375sheets/roll
- A4: 125sheets/roll

Interfaces
- BNC*1, USB-B*1, HDMI, USB-A(2.0)*2, REMOTE*1, RJ-45*1

Maximum Width
- A4

Power
- AC 100-240V～50/60Hz

Operating System
- Windows 7（32bit）

CPU
- Intel j1900 2.0-2.42GHz

Memory
- 2G

Hard Disk
- 64G

Media Outputs
- Automatically cut based on the film size by roll printing

Line Accuracy
- ±0.1%

Ink Supply
- Continuous ink supply system

Nozzle Number
- 15,360 nozzles

Heat Emission
- Printing: 1,400W
- Idle: 100W

Noise
- Printing: ＜52 db
- Idle: ＜35 db

Operating Environment
- Temperature: 10℃-35℃
- Humidity: 35%-75%(non-condensing)

Storage Environment
- Temperature: 5℃-50℃
- Humidity: 30%-80%(non-condensing)

Engine Dimensions
- 450mm(L)×355mm(W)×297mm(H)

Weight
- About 15Kg（excluding ink）

Multi-function Self-service Printer

SDP-2A will rapidly provide users with complete diagnostic reports printed and radiology films printed, improve the self-service reception capacity of hospitals, and relieve their pressure in the aspect of diagnostic reports printed, radiology films printed, information consultation with medical workers , etc.

Product Name

- Multi-function Self-service Printer

Type

- SDP-2A

Universal Input

- AC100V-240V～50/60Hz

Heat Emission

- Printing: 400W
- Idle: 100W

Noise

- Printing: ＜52db
- Idle: ＜35db

Environment

- Temperature: 15℃-40℃
- Humidity: 10%-80% (non-condensing)

Engine Dimensions

- 900mm(L)×846mm(W)×1663mm(H) (excluding the advertising screen)

Weight

- 190Kg (excluding ink)

Timer

- Regularly cut off the machine power

Parameter of PC Module

- Mainboard: ES-8160U
- CPU: Intel dual-core 2.8GHz
- Memory: 4G
- Hard Disk: 500GB
- Operating System: Windows 7
- Specification of Monitor: 21.5-inch LCD-touch screen
- Network Interface: RJ-45 network interface
- Data Interface: USB2.0×2

Parameter of Report Printer

- Type of Printer: Lazerprinter
- Printing Resolution: 600(horizontal)×600 (vertical)dpi
- Maximum Printing Number: 5,000 sheets
- Paper Supply: Cassette feed
- Paper Sizes: A4, A5, B5
- Maximum Capacity of Paper Feeding Cassette: 250 sheets

Parameter of Film Printer

- Type of Printer: Inkjet
- Printing Resolution: 2400(horizontal)×1200 (vertical)dpi
- Type of Ink: C/M/Y/BK/MBK
- Capacity of Ink Box: 4,000mL×5
- Ink Supply: Continuous ink supply system
- Film Supply: Roll film
- Film Sizes: 8×10in, 10×12in, 11×14in, 14×14in, 14×17in, 14×51in

Other Customized Configuration

- Infrared Scanner Gun: Support a wide range of specifications for one-dimensional and two-dimensional barcode identification
- Magnetic Card Reader: Bi-directional swiping; support ISO 7811, AAMVA and CA DMV standard card
- Suction Card Reader: Capable of reading a magnetic card, a integrated Circuit card and a radio-frequency Card, which are subject to some related standard
- Inductive Card Reader: Support various Mifare cards complying with the standard of Type A of ISO/14443
- Personal ID Reader: Support the second-generation resident ID card

Multi-function
Self-service Printer

SDP-2C will rapidly provide users with complete diagnostic reports printed and radiology films printed, improve the self-service reception capacity of hospitals, and relieve their pressure in the aspect of diagnostic reports printed, radiology films printed, information consultation with medical workers , etc.

Product Name
- Multi-function Self-service Printer

Type
- SDP-2C

Universal Input
- AC 100V-240V(50Hz)

Heat Emission
- Printing: 1,500W
- Idle: 100W

CPU
- Intel dual-core 2.8 GHz

Memory
- 4G

Hard Disk
- 500GB

Specification of Monitor
- 21.5-inch LCD-touch screen
- Resolution of 1,920×1,080 pixels

Engine Dimensions
- 850mm(L)×612mm(W)×1,763mm(H)

Environment
- Temperature: 15℃-40℃
- Humidity: 10%-80%(non-condensing)

Other Customized Configuration
- Report printed: Lazerprinter (Maxmum resolution is 600x600 pixels)
- Thermal Filmprinted Thermal printer (Maxmum resolution:is 508dpi)
- Infrared Scanner Gun: Support a wide range of specifications for one-dimensional and two-dimensional barcode identification
- IC Card Reader: Support all of the typical memory card and logical encryption card
- Magnetic Card Reader: Bi-directional swiping; support ISO 7811, AAMVAand CA DMV standard card
- Inductive Card Reader: Support various Mifare cards complying with the standard of Type Aof ISO/14443
- Personal IDReader: Support the second-generation resident IDcard
- Network Interface: RJ-45network interface
- Data Interface: USB2.0×2

Medical Film

Laser Film

Structure

Composed of the laser layer, PET base material and the protective layer

Media Sizes

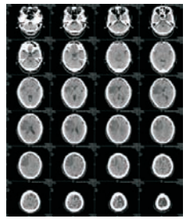
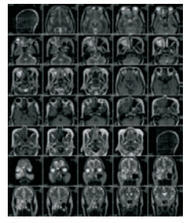
RLF-14x17in
RLF-11x14in
RLF-10x12in
RLF-8x10in

Specifications

Dmax: ≥ 3.0D
Dmin: 0.11-0.19D
Thickness: 210±8μm
Haze: ≤ 20%
Basis-weight: 280±8 g/m²

Compatible

CARESTREAM Dryview 5950, 6800, 6850, 6950, 8100, 8150, 8200, 8300, 8500, 8700, 8900

Thermal Film(A)

Structure

Composed of the thermal layer,PET base material and the protective layer

Media Sizes

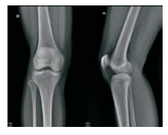
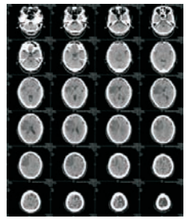
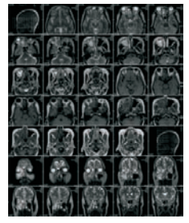
RTF-14x17in
RTF-11x14in
RTF-10x12in
RTF-8x10in

Specifications

Dmax: ≥ 3 .0 D
Dmin: < 0.25D
Thickness: 205±8μm
Haze: ≤ 20%
Stiffness (TD): 11.0±2 mN

Compatible

AGFA Drystar Axys, 5302, 5503, 5301

Medical Film

Thermal Film(F)

Structure

Composed of the thermal layer, PET base material and the protective layer

Media Sizes

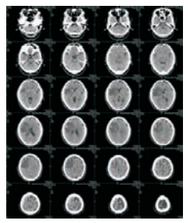
RTF-14x17in
RTF-11x14in
RTF-10x12in
RTF-8x10in

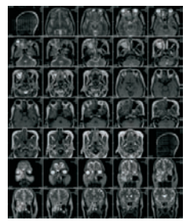
Specifications

Dmax: ≥ 3.0 D
Dmin: < 0.28D
Thickness: 200±5μm
Haze: ≤ 20%
Stiffness: 10.0±1mN

Compatible

FUJIFILM Drypix Lite, 3500





Thermal Film

Structure

Composed of the thermal layer, PET base material and the protective layer

Media Sizes

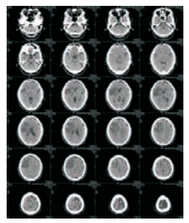
RTF-14x17in
RTF-11x14in
RTF-10x12in
RTF-8x10in

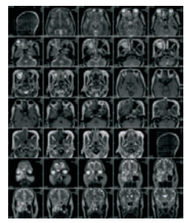
Specifications

Dmax: ≥ 3.0D
Dmin: < 0.26D
Thickness: 204±8μm
Haze: ≤ 20%
Stiffness(TD): 10.0±2mN

Compatible

CLEAR Medical Film Printer 369-1, 369-2





Medical Film

Medical Dry Film (Inkjet)

Structure

Composed of silver-bearing PET base material and protective layer

Media Sizes

Sheet

RIF-13x17in
RIF-11x14in
RIF-10x12in
RIF-8x10in

Roll

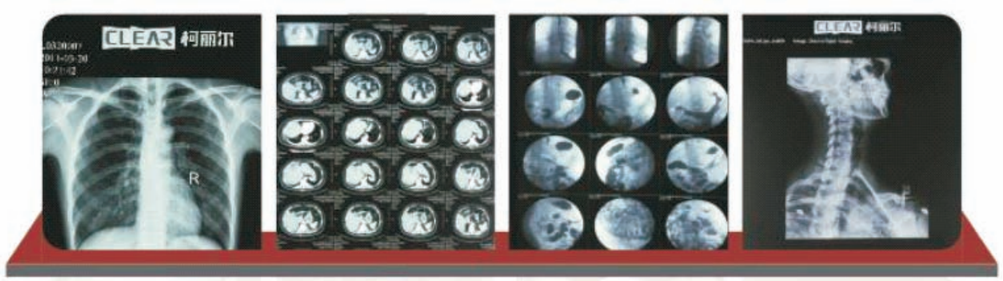
RIF-14x51in RIF-11x14in
RIF-14x17in RIF-10x12in
RIF-14x14in RIF-8x10in

Specifications

Haze:≤ 20%
Dmax:≥ 3. 0D
Dmin: 0. 11-0. 19D
Thickness: 210±8μm
Basis-weight: 280±8 g/m²

Compatible

Epson, Canon, HP, CLEAR



Medical Color Film (Inkjet)

Structure

Composed of MPET base material

Media Sizes

Sheet

WIF-A3
WIF-A4
WIF-B5
WIF-16K

Roll

WIF-14x51in WIF-10x12in
WIF-14x17in WIF-8x10in
WIF-13x17in WIF-5x7in
WIF-11x14in

Specifications

Haze: 88±6%
Thickness: 180±8μm
Basis-weight: 245±8g/m²
Transmission Density: 1.4D

Compatible

Epson, Canon, HP, CLEAR

Ink

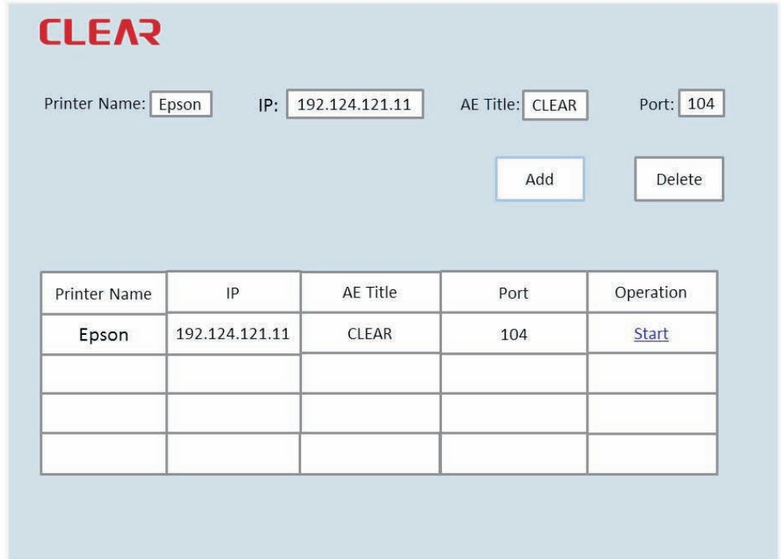
CLEAR Specified Ink

	Black Ink	Color Ink
Color	C(2#), M(3#), Y(4#), BK(1#), BK(1#)	C, M, Y, BK, BK
Package	70ml/bottle, 5bottles/set	70ml/bottle, 5bottles/set
Support image	CR, DR, CT and MRI	B ultrasound, Endoscope, PET-CT, PET-MR, CT 3D reconstruction, etc
Compatible Printer	Type E for Epson (L1300, L310, L130, L313) Type C for Canon(G1000, G1010, G1080)	Type E for Epson (L1300, L310, L130, L313) Type C for Canon(G1000, G1010, G1080)
Ink Consumption (1 set of ink)	RIF-8×10in: About 750 Sheets for DR RIF-13×17in: About 270 Sheets for MRI	WIF-A4: About 900 Sheets for Ultrasound

Software

CLEAR Specified Software

CLEAR DICOM software is used for primary processing and preservation of medical images in Dicom format. CLEAR provide the DICOM software to clients. It is mainly used in inkjet film printer to print CT, MRI, DR, CR, Ultrasound, PET-CT, etc. and supports DICOM images without compression.



DICOM Viewer Run

- Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10
- Available for ×86 and ×64 platforms