

The Leading Manufacturer of
Medical Films & Printers

CLEAR



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Shenzhen Juding Medical Equipment Co., Ltd.

Profile

- The provider for the leading medical self-service system and smart-healthcare solutions.
- Effect smart healthcare, mobile healthcare and self-service of a whole hospital for the development of direction.
- Efforts to build a mobile medical ecosystem with EHR-to-cloud at the core.

1
research and development center

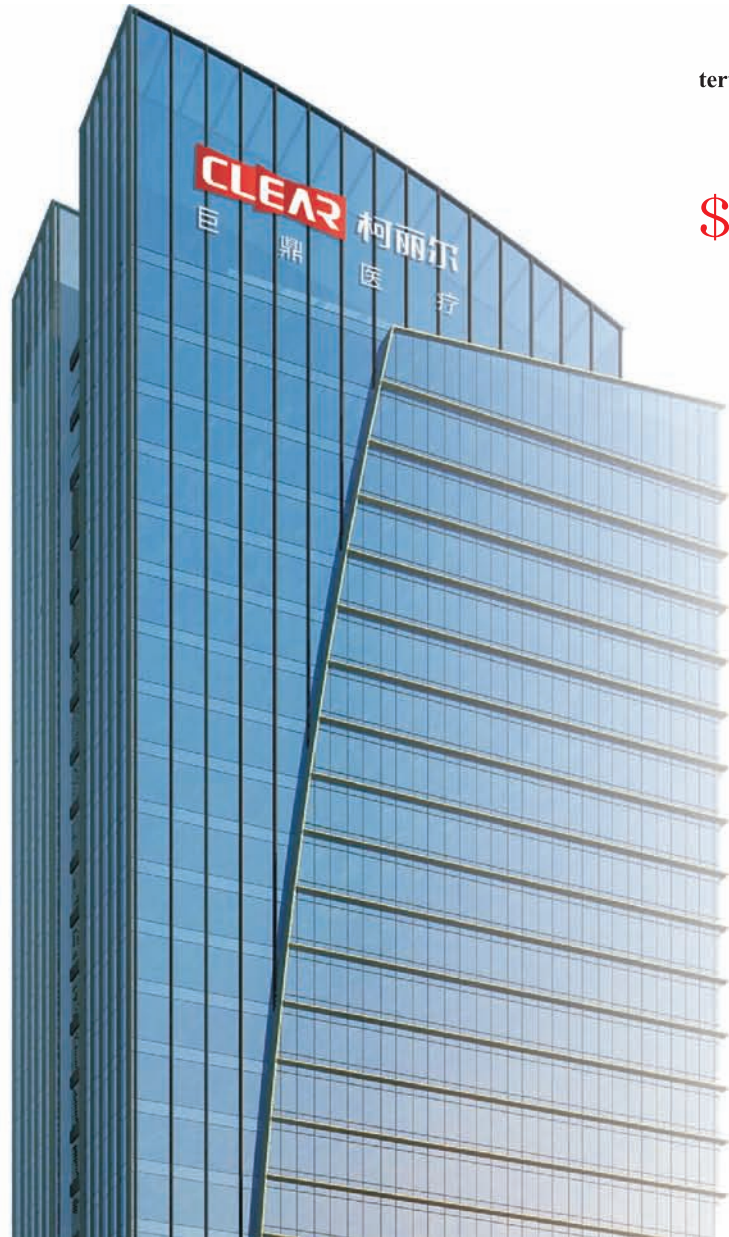
650+
tertiary comprehensive hospitals

\$ 50,000,000
B+ round financing

2
advanced production bases

1,400+
employees

3,500+
hospitals



Strategic Process

from 0 to 1; from \$1 to \$150,000,000



Copyright and Patents

- 61 kinds of software copyright
- 21 utility model patents
- 13 patents for invention
- 18 design patents

Professional Accreditation

- CMMI-ML3 international certification
- ISO-9001 and ISO-13458 international quality system authentication
- The national high-tech enterprise
- Engineering technical research center for digital information recording material
- Engineering laboratory for applied technology of medical-image big data

Honor



BELIEVE IN THE POWER OF BELIEF

Partial Cooperative Hospitals



Peking Union Medical
College Hospital



Henan Provincial
People's Hospital



Zhongshan Hospital
of Xiamen University



Chongqing Xinqiao Hospital



West China Hospital, SCU



Shenzhen Hengsheng Hospital



Huangshi Central Hospital



Hubei General Hospital



Jiangsu Province Hospital



Zhengzhou Central Hospital
Affiliated to Zhengzhou University



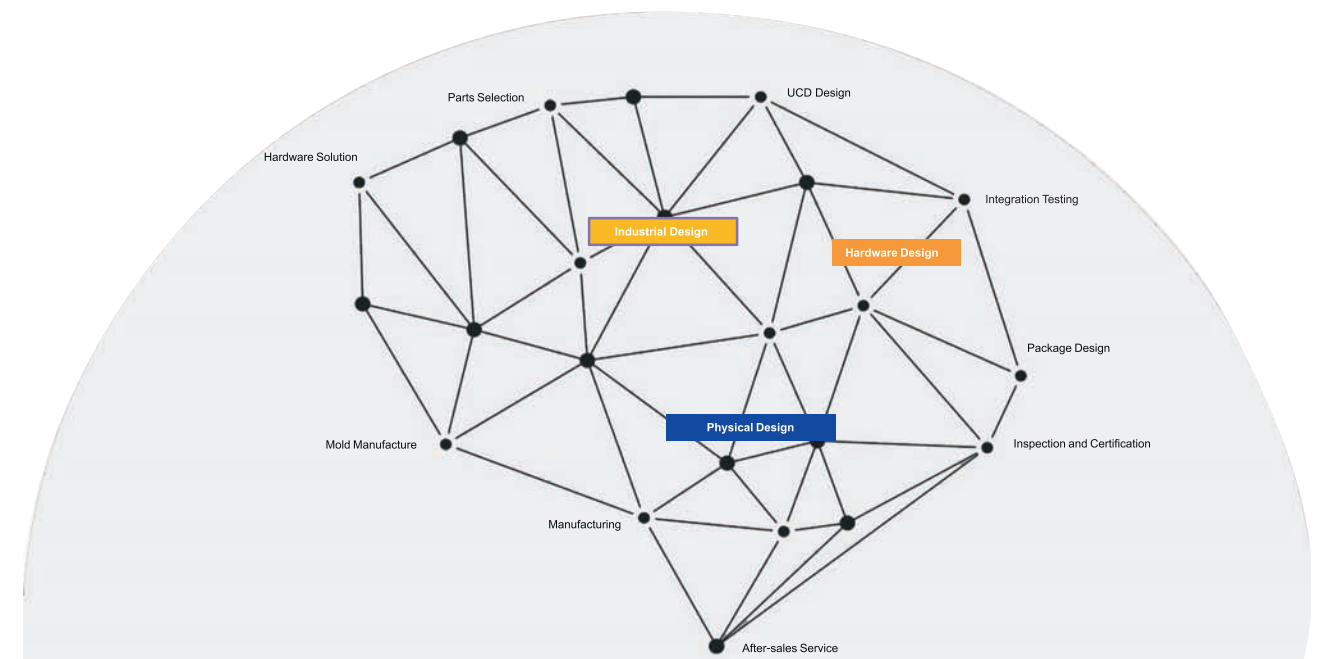
Xin Hua Hospital Affiliated to
Shanghai Jiao Tong University
School of Medicine



The hospital of Guangxi
Zhuang Autonomous Region

End-to-end R&D Design Platform

Juding Medical has been specializing in the research in the medical niche for many years, and possesses independent core technologies, extensive product lines, perfect solutions to help hospitals realize the interconnection as well as to provide the intelligent medical health service for the public. At its headquarter in Shenzhen city, it has about 200 software R&D personnels and about 100 hardware R&D personnels, who have international superior R&D technical ability.



Medical Film

Laser Film



Structure

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

Media Sizes

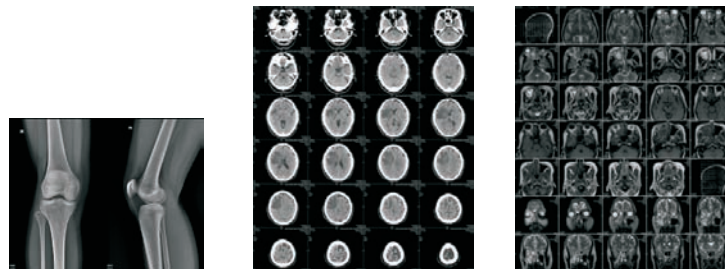
RLF-14x17in
RLF-11x14in
RLF-10x12in
RLF-8x10in

Specifications

Dmax: $\geq 3.0D$
Dmin: $0.11-0.19D$
Thickness: $210\pm 8\mu m$
Haze: $\leq 20\%$
Basis-weight: $280\pm 8 g/m^2$

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

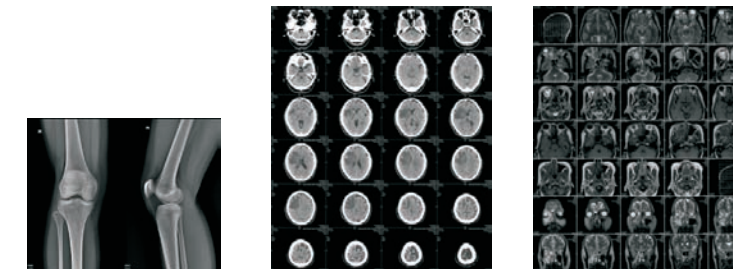
RTF-14x17in
RTF-11x14in
RTF-10x12in
RTF-8x10in

Specifications

Dmax: $\geq 3.0 D$
Dmin: $< 0.25D$
Thickness: $205\pm 8\mu m$
Haze: $\leq 20\%$
Stiffness (TD): $11.0\pm 2 mN$

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

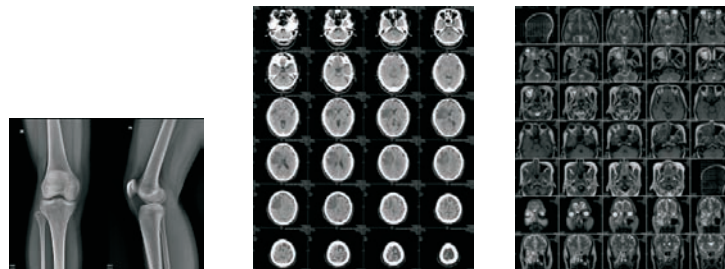
RTF-14x17in
RTF-11x14in
RTF-10x12in
RTF-8x10in

Specifications

Dmax: $\geq 3.0D$
Dmin: $< 0.28D$
Thickness: $200 \pm 5 \mu m$
Haze: $\leq 20\%$
Stiffness: $10.0 \pm 1 mN$

Compatible

FUJIFILM Drypix Lite, 3500



Thermal Film



Structure

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

Media Sizes

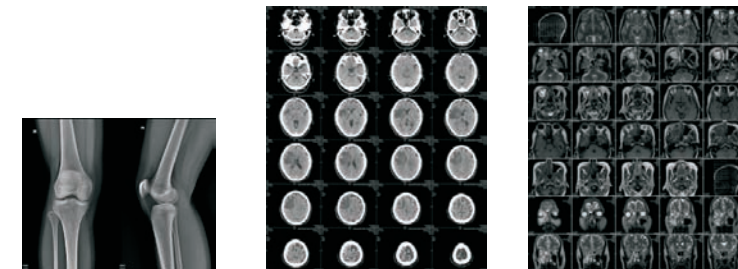
RTF-14x17in
RTF-11x14in
RTF-10x12in
RTF-8x10in

Specifications

Dmax: $\geq 3.0D$
Dmin: $< 0.26D$
Thickness: $204 \pm 8 \mu m$
Haze: $\leq 20\%$
Stiffness(TD): $10.0 \pm 2 mN$

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

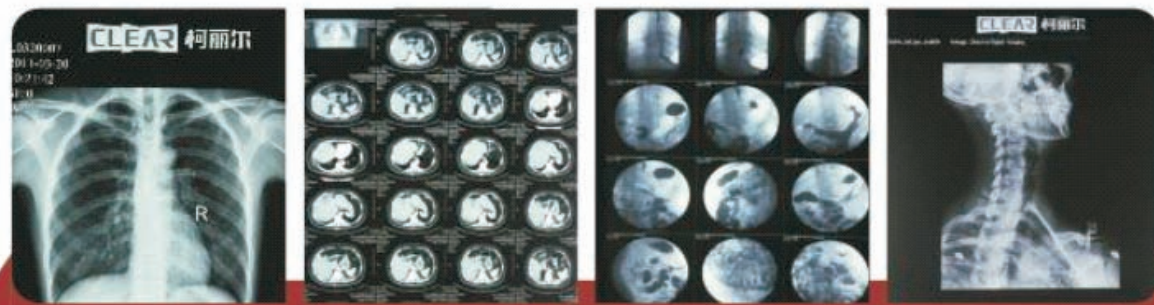
Sheet	Roll
RIF-13x17in	RIF-14x51in RIF-11x14in
RIF-11x14in	RIF-14x17in RIF-10x12in
RIF-10x12in	RIF-14x14in RIF-8x10in
RIF-8x10in	

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	Roll
WIF-A3	WIF-14x51in WIF-10x12in
WIF-A4	WIF-14x17in WIF-8x10in
WIF-B5	WIF-13x17in WIF-5x7in
WIF-16K	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

C (2[#]), M (3[#]), Y (4[#]), BK (1[#]), BK (1[#])

Color Ink

C, M, Y, BK, BK

Color

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)

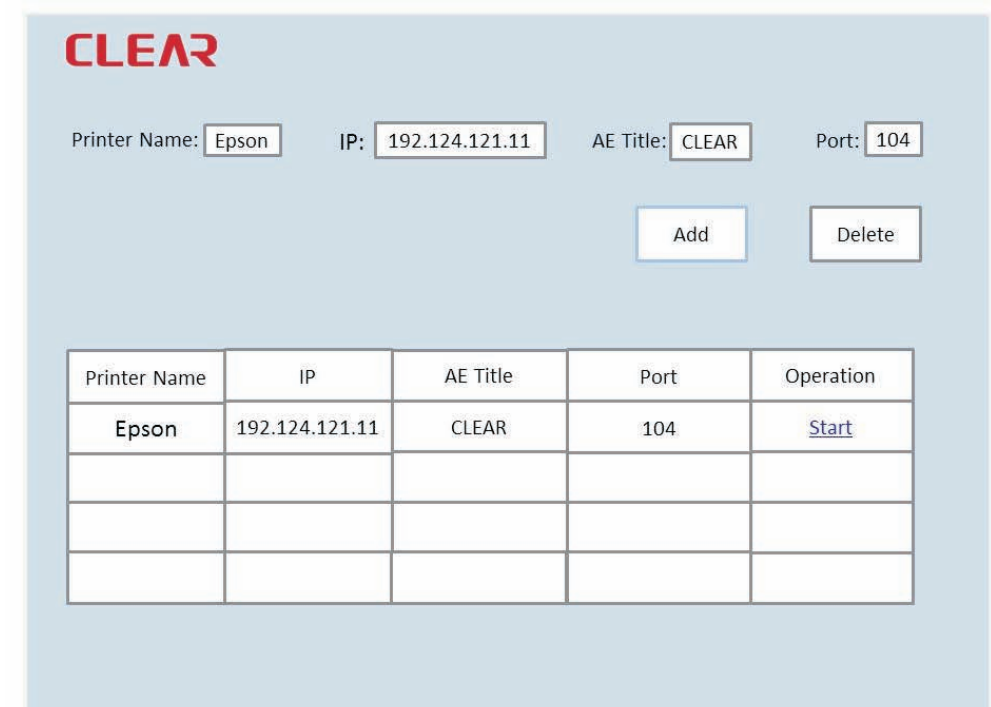
RIF-8×10in: About 750 Sheets for DR
RIF-13×17in: About 270 Sheets for MRI

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 x86 and x64 platforms

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

- 369-8

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°C-50°C
- Humidity: 30%-80%(non-condensing)

Operating Environment

- Temperature: 15°C-30°C
- 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

- 369-3
- 369-2

Application Fields

- X-ray, CT, MRI, etc

Spatial Resolution

- 369-3 : 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°C-35°C

Operating Humidity

- 35%-75%(non-condensing)

Optimal Operating Temperature

- 22.2°C

Storage Humidity

- 30%-80%(non-condensing)

Storage Temperature

- -22°C-50°C

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°C-35°C
- 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

- $\pm 0.1\%$

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°C-35°C
- Humidity: 35%-75%(non-condensing)

Storage Environment

- Temperature: 5°C-50°C
- Humidity: 30%-80%(non-condensing)

Engine Dimensions

- 450mm(L)×355mm(W)×297mm(H)

Weight

- About 15Kg (excluding ink)

Process Optimization

Before implementation

Complicated process and inefficiency

At present, patients often run to the different departments in the hospitals for examinations and will not be able to consult with the clinician until the report is available. That patients are required to wait each test for some time being different in the different departments causes the ones to come and go between departments for many times and go to the hospital frequently to prolong the ones' stay in the hospital.



PASSIVE

The more workers, the more cost

Manually checking film and reports means a lot of repetitive work, and wastes hospital human resources. For example: claim, distribution and maintenance in each department's printing medium and consumables, etc.



DISPERSED

Long wait for patients wastes hospital's special resources

The patients' long stay in the hospital can cause the occupation of all kinds of medical resources, such as parking spaces, elevators, maintenance desks and report distribution windows, etc.



Insufficient protection for patient privacy

At present, the various reports of ultrasound, endoscopy, etc., which would be checked and collected by the patients, are dispatched in batches. It is hard for the patients to search for their reports, meanwhile the reports will be lost easily. Private medical examination records cannot be effectively protected especially due to checking the reports in public. With the improvement of civility and the gradual awakening of the consciousness of individual rights protection, the demand for improving the quality of service from hospitals and protection of personal privacy are becoming more and more urgent.



COST PROBLEM

Discomforting management status of hospitals' printers and consumables

In the hospital printers and consumables must firstly undergo application, approval, bidding, warehousing, delivery, distribution and accounting before procurement, therefore it increases the hospital management cost because of its complicated process.



POTENTIAL SAFETY HAZARD

Frequent maintenance for hospitals

All the departments in the hospital are equipped with printers. Because of the large number of printers, different types and brands, it becomes time-consuming and hard to perform regular maintenance checks and procurement of materials. The printer troubleshooting is a relatively lower end and the more common operation and maintenance problem than the system problem, but it needs quite a lot of manpower in the information department of hospital.



Process Optimization

After implementation

Voluntary

Patients are reminded in four ways and then go to the one-stop self-service machine to get their own medical reports with a card.

Self-reliant

The self-service system includes on-demand and self-service printing to reduce human resources with its one-stop self-service and patients' stay in the hospital.

Integrated

Patients could get all examination reports and films from any Clear's one-stop self-service kiosk by swiping a card.

Accurate

A accuracy rate is 100% by system-based identification. As a result, it reduces risk of medical treatments, improves patients' medical experience and effectively reduces the occurrence of conflict between doctors and patients.

"Internet+" Sample

Juding Medical is actively implementing an innovative medical service mode of online and offline integration based on "Internet+", has carried out some localized medical projects in Zhangjiagang city, Lianyungang city, Nanyang city, etc. in China to promote the vertical mobility of the high-class medical resources.



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°C-40°C
- 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: Lazer printer

- 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°C-40°C

- 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 A of ISO/14443
- Personal IDReader: Support the second-generation resident IDcard
- Network Interface: RJ-45network interface
- Data Interface: USB2.0×2

