BEACON

SHENZHEN BEACON DISPLAY TECHNOLOGY CO., LTD.

U.S.A
Tech.& Sales support

The Netherlands
Tech.& Sales support

Germany
Warehouse / spare parts

France
Warehouse /spare parts

Shenyang
R & D center / Manufacturing base

South Korea
Manufacturing base/Marketing center

Shenzhen
Headquarters / R & D center / Manufacturing base

Hongkong
Investment / Marketing center
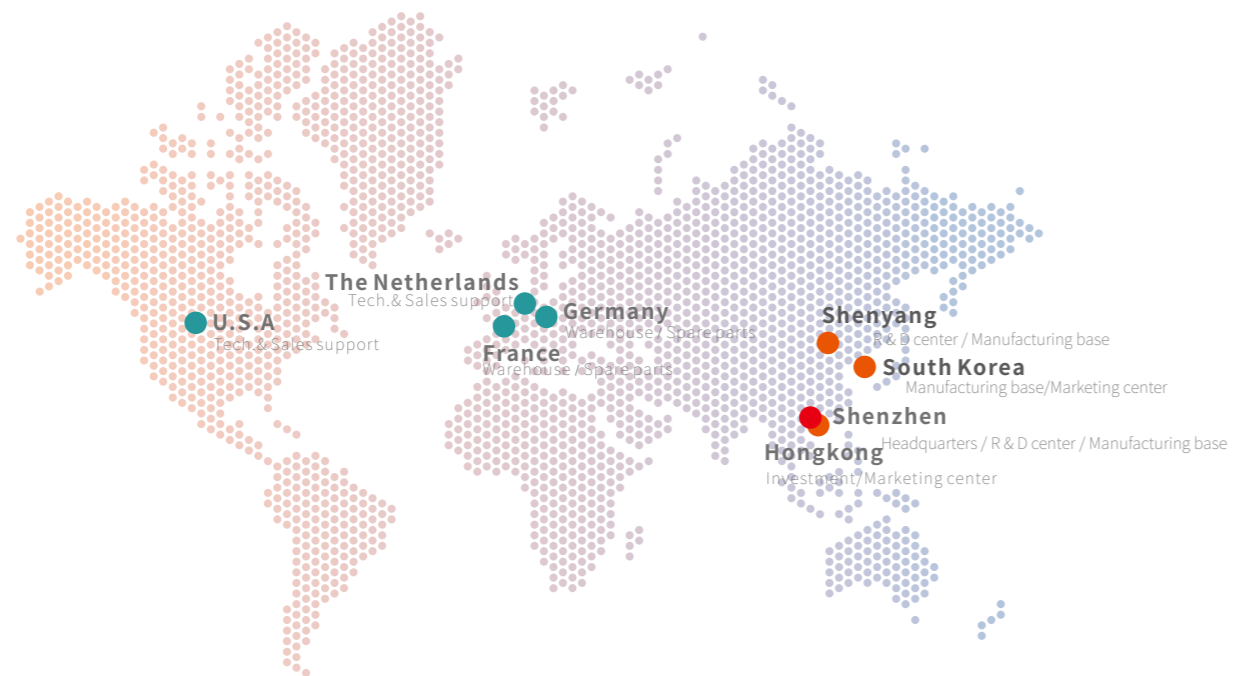
RADIOLOGICAL IMAGING DISPLAY SOLUTION

Leading Medical Imaging Display

https://en.beacon-display.cn
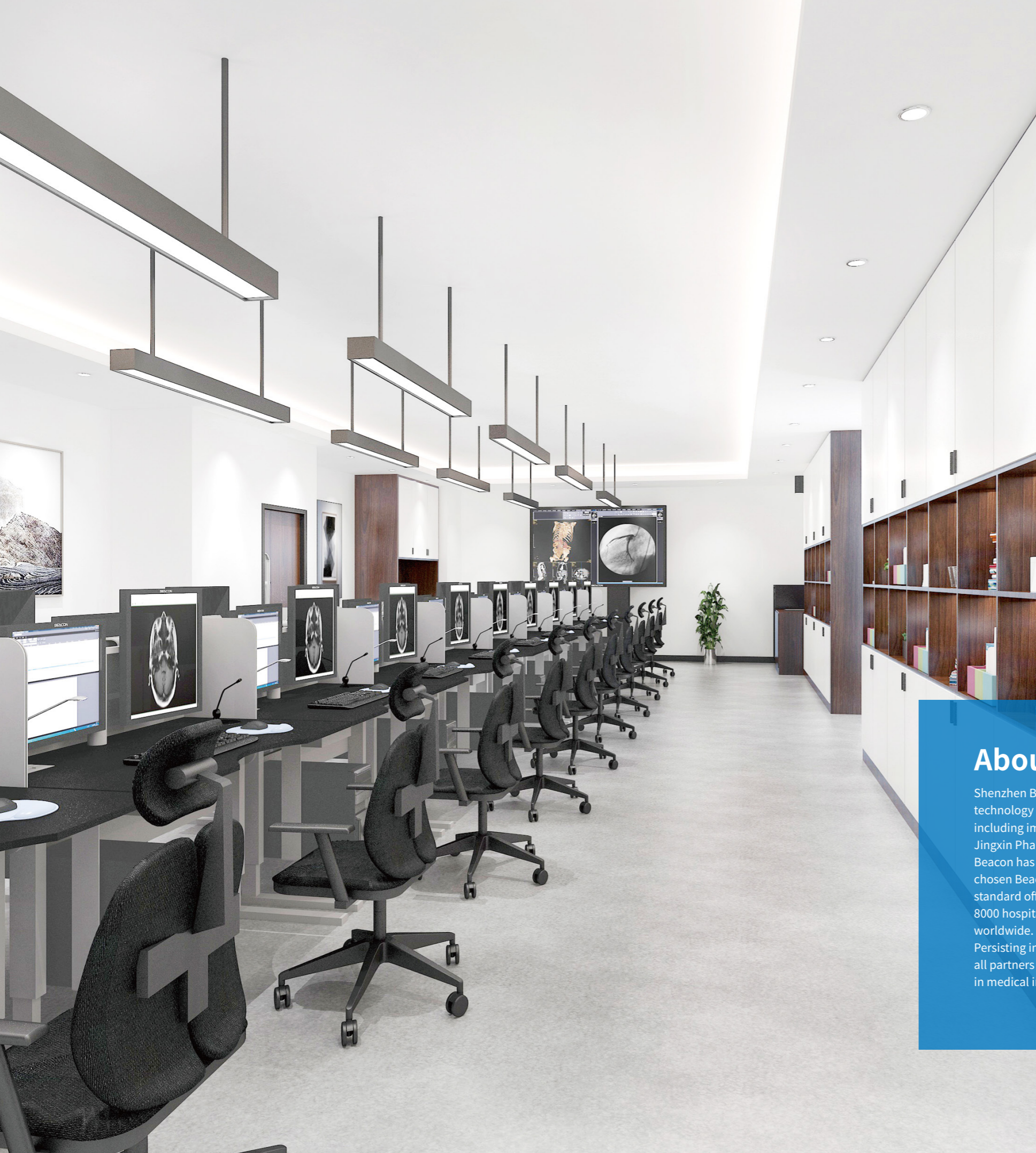
About Us

Shenzhen Beacon Display Technology Co., Ltd. is a national high-tech enterprise dedicated to medical display technology innovation and multi-application. Beacon provides professional solutions for medical imaging application including image transmission, signal management, display & human machine interface. It is the subsidiary of Zhejiang Jingxin Pharmaceutical Co., Ltd. (stock code 002020).

Beacon has been widely recognized by the market. Many world-class medical imaging equipment manufacturers have chosen Beacon as the strategic ODM partner such as GE, Philips, Siemens, Hitachi, Canon, United Imaging, Mindray. For standard off-the-shelf medical display, Beacon currently holds about 50% market share in domestic market, more than 8000 hospitals are using Beacon's product now. The products are exported to more than 100 countries and regions worldwide.
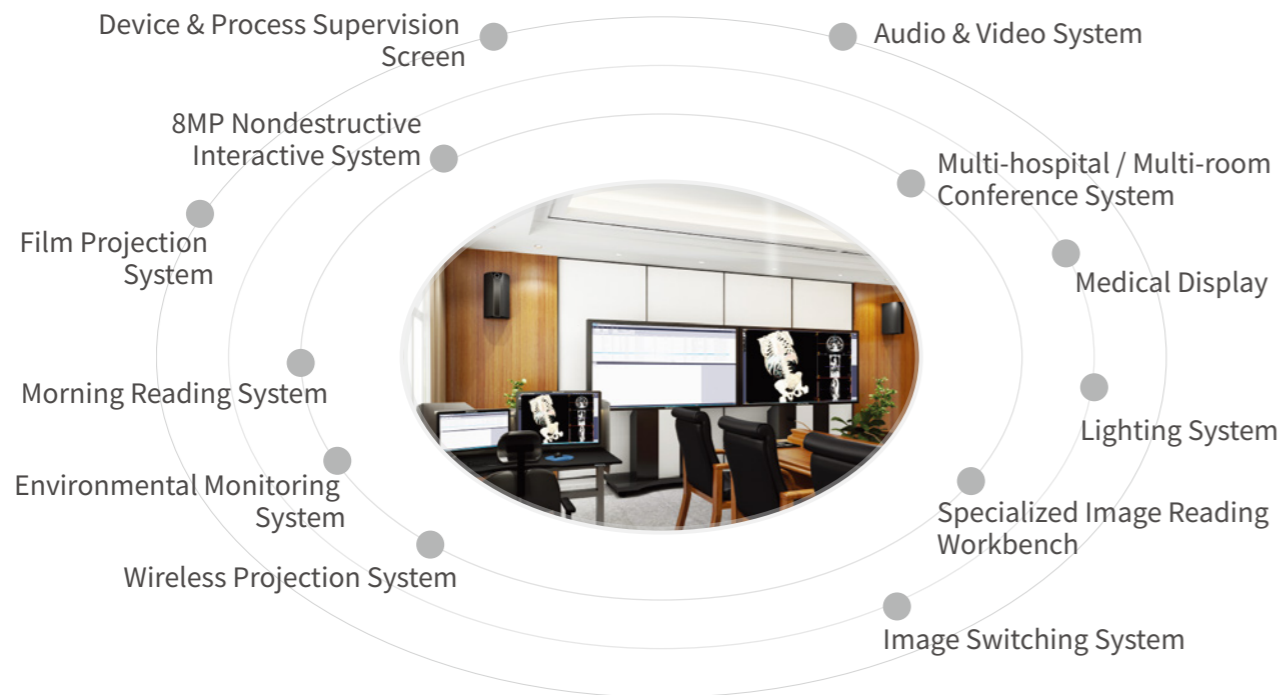
Persisting in "Creating value and sharing benefit", Beacon would like to make continuous efforts to grow up together with all partners and become a global leading brand of professional solution provider for display and human machine interface in medical imaging area.

Beacon launched the first intelligent image reading center in China in 2015. In March 2016, Beacon installed the first professional medical image reading center in Affiliated Hospital of Ji Ning Medical University in China.

Intelligent Image Reading Center Solution

——Healthy Reading Intelligent Interaction——

- Device & Process Supervision Screen
- Audio & Video System
- 8MP Nondestructive Interactive System
- Multi-hospital / Multi-room Conference System
- Film Projection System
- Medical Display
- Morning Reading System
- Lighting System
- Environmental Monitoring System
- Specialized Image Reading Workbench
- Wireless Projection System
- Image Switching System

Advantages of Intelligent Image Reading Center Solution

Comfortable and healthy reading environment
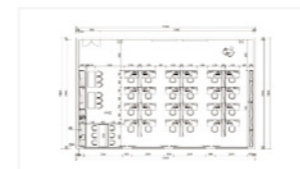
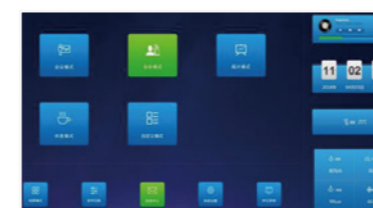Scientific and reasonable layout design

Reading environment optimization and control
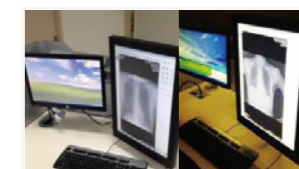
Professional reading platform and lighting system

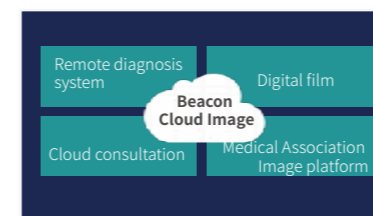### Intelligent interaction for multiple application scenarios

Intelligent management platform

Image collaboration system

Data heterogeneous integration platform

Cloud image remote diagnosis system

Image switching system

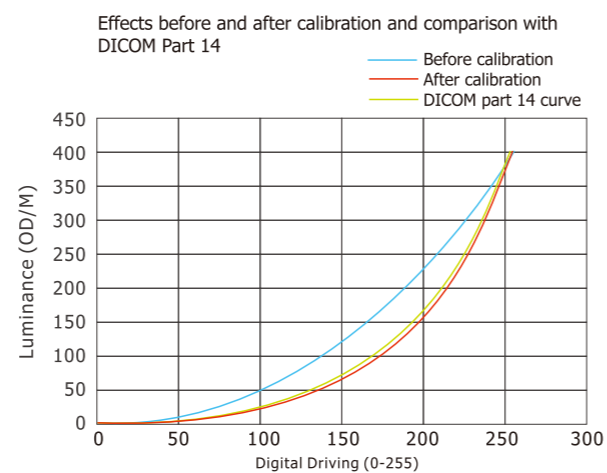Cloud live broadcast system

Feature Highlights

Backlight Stabilization System

With built-in integrated back light sensor, the backlight can be monitored continuously. This achieves stable brightness rapidly at start-up and automatically compensate the brightness fluctuations caused by ambient temperature change and luminance attenuation after long time usage. The brightness uniformity of the display can be maintained throughout the entire life cycle.

Backlight sensor

Hole for light transmission

Backside of panel
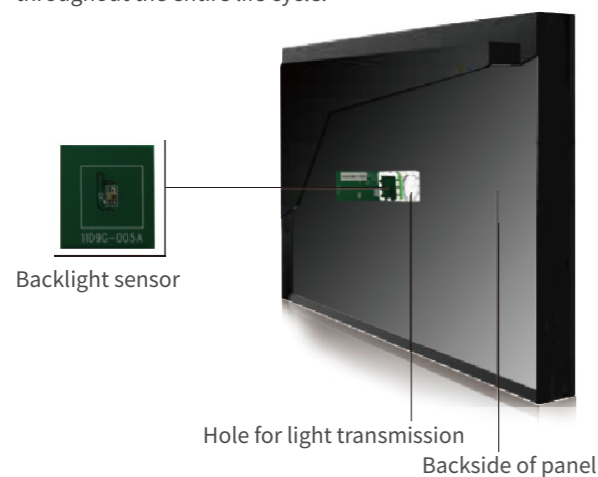
Compliant with DICOM Standard

Medical images including the most subtle details can be displayed precisely. Keep display consistency between different displays as well as display and different imaging modalities, ensure the accuracy of diagnosis.

Effects before and after calibration and comparison with DICOM Part 14

— Before calibration
— After calibration
— DICOM part 14 curve

Luminance (OD/M)

Digital Driving (0-255)

Continuous Quality Assurance System

With integrated front sensor, grayscale and color can be monitored and calibrated. The display accuracy of medical image is continuous automatically assured, and can also be network centralized managed.

Without CQAS

Three years later

With CQAS

Three years later
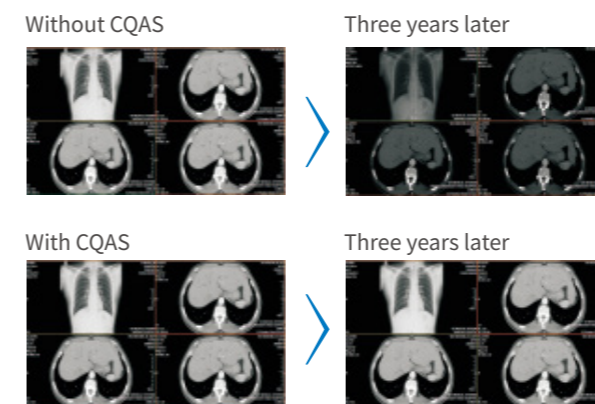
Ambient Light Adaptive System

With integrated front ambient sensor, the ambient environment can be monitored continuously, the brightness can be adjusted to a proper level automatically to ensure the display is compliant with DICOM standard under any ambient environment. The diagnostic accuracy is increased and discomfort and eye-strain can also be avoided.
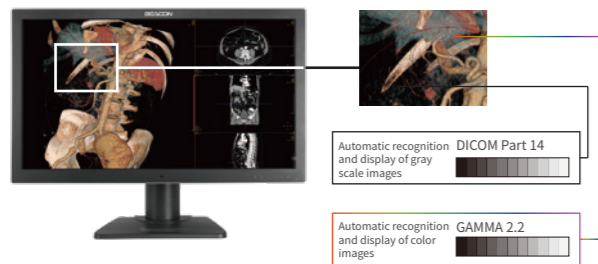
Feature Highlights

Hybrid Gamma

The Color and grayscale images can be automatically recognized based on the image content, diagnostic accuracy and reliability are ensured by automatically matching the best display modes.
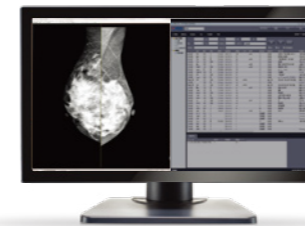
Automatic recognition and display of gray scale images — DICOM Part 14

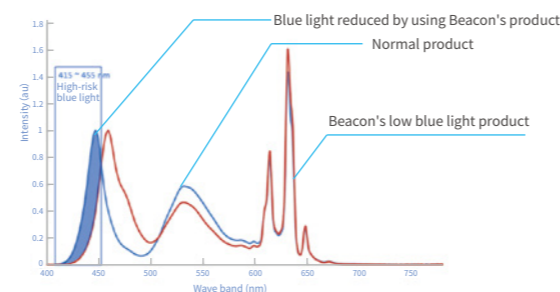Automatic recognition and display of color images — GAMMA 2.2

Quality Assurance Software

Compliant with the latest QA standard, ensure image quality and consistency of the display in real-time. The embedded QA make it possible to process QA test on the display itself very conveniently.

Uniformity Calibration Technology

The Uniformity Calibration Technology (UCT) contributes to a smoother image through balancing the fluctuations in luminance and chromaticity on different areas of the screen.

Before UCT   After UCT

Low Blue Light Technology

Blue light is a part of the short-wave light in the spectrum, which is abundant in the normal display screen. Long-term exposure to blue light is the main cause of maculopathy. The main symptoms of maculopathy are central visual impairment and visual deformity. Over 50% of the blue light can be cut down by low blue light technology, the risk of macular degeneration can be significantly reduced.

Blue light reduced by using Beacon's product
Normal product
415 ~ 455 nm High-risk blue light
Beacon's low blue light product
Intensity (au)
Wave band (nm)

Independent Gamma Function

Different luminance is required when reading an image or a report. Independent Gamma function makes it possible to adjust proper luminance on different split screens based on the display content, it relieves the eye-strain when reading medical images and reports simultaneously.

Power-on Self-Test

AAPM TG-18 test patterns can be automatically presented after startup, which is very convenient for the user to make DICOM compliance test.

Primary Screen Adaptation

In a workstation environment, the doctor can concentrate on the primary screen effortlessly while the luminance of neighbor monitors is automatically dimmed.

Spot Light Function

The spot light can be focused on specific image area to highlight the subtle lesions that help the doctor to have a closer examination.

DSA Operating Room Image Solution

——Visualized Viewing Operation Precisely——

Feature Highlights

Using IPS-Pro panel

This technology is able to produce brighter images with better contrast ratio and preserve more details in dynamic images.

Readily available screen layout

Remote control function: the 55" display and control panel can be remotely interacted through a 8.4" control panel. The user can switch different layout very conveniently, touch for glove mode is supported.

Easy matching

Matching with various types of high-end C-arm equipments from GE, Philips, Siemens, Canon, Shimadzu, etc.

High Security

Multiple guarantees by duplicate power supply and backup display.

Display images in real time

FPGA signal processing and split screen technology enable the real-time display of operation images come true, which is much better than the video matrix technology.

Global verificated

Dozens of S551 products are successfully installed and used in both domestic market and abroad, accept unanimous recognition from global customers.

### High performance one 55" display instead of multiple small screens
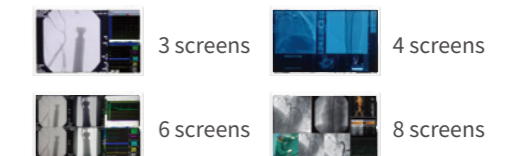
Rich image information

Up to 12 channels video signal inputs, and display 8 windows simultaneously support long distance transmission (up to 30m); Support multiple auxiliary inputs from different modalities such as ultrasound, patient monitor, multichannel Physiological Instrument, PACS, pathology, etc.

DP-1　DP-2　DP-3　DP-4　　DVI-1　　DVI-2

BNC 1　BNC 2　BNC 3　VGA　　DVI-3　　DVI-4

PACS　Ultrasound　Patient monitor

Physiological instrument　Pathological information

4Kx2K display with wide view angle, viewing from multiple angle without distortion
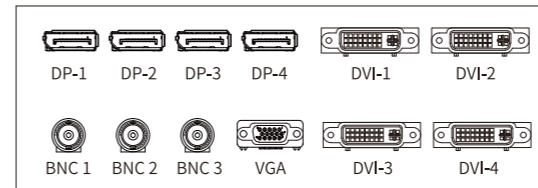
Support Zoom In and Zoom Out images
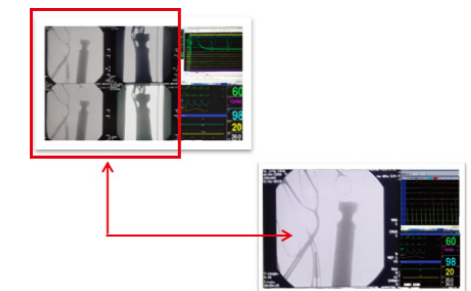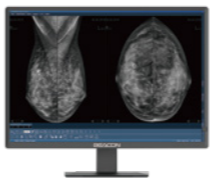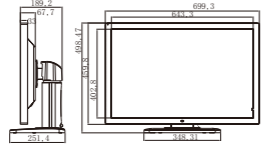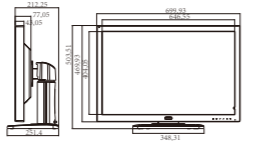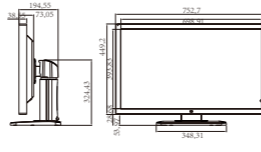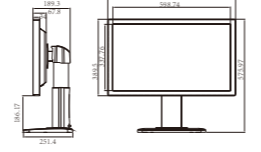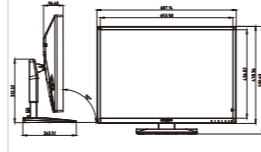
Display size and number of display windows can be configured with high flexibility

3 screens　4 screens

6 screens　8 screens
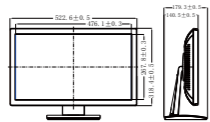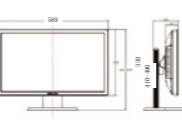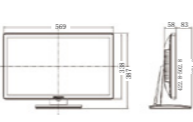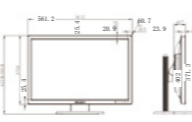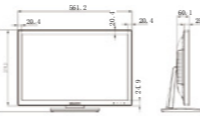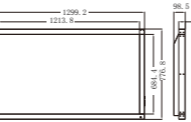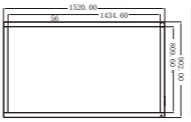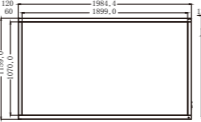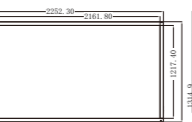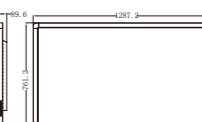
Specification Sheet

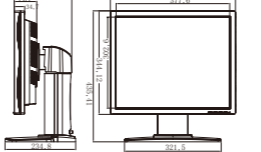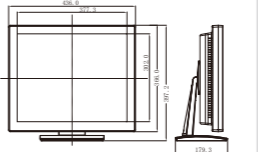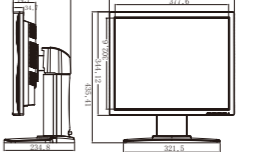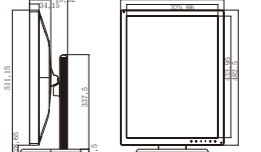|	Diagnostic Display				Diagnostic Display			
Model	C22S+ C22SP+ (With protective glass)	G22S+ G22SP+ (With protective glass)	G23S+ G23SP+ (With protective glass)	C32S+ C32SP+ (With protective glass)	G32S+ G32SP+ (With protective glass)	G52S+ G52SP+ (With protective glass)	C53S+ C53SP+ (With protective glass)	G53S+ G53SP+ (With protective glass)
Product name	2MP Color Medical Display	2MP Grayscale Medical Display	2MP Grayscale Medical Display	3MP Color Medical Display	3MP Grayscale Medical Display	5MP Grayscale Medical Display	5MP Color Medical Display	5MP Grayscale Medical Display
Display size	21.3″	21.3″	21.3″	21.3″	21.3″	21.3″	21.3″	21.3″
Resolution	1600x1200	1600x1200	1600x1200	2048x1536	2048x1536	2560x2048	2560x2048	2560x2048
Pixel pitch	0.270x0.270mm	0.270x0.270mm	0.270x0.270mm	0.2115x0.2115mm	0.2115x0.2115mm	0.165x0.165mm	0.165x0.165mm	0.165x0.165mm
Support color	1.07 Billion	1024 grayscale	1024 grayscale	1.07 Billion	1024 grayscale	1024 grayscale	1.07Billion	1024 grayscale
Brightness	1000cd/㎡ Typ.	2000cd/㎡ Typ.	1900cd/㎡ Typ.	1000cd/㎡ Typ.	2000cd/㎡ Typ.	1200cd/㎡ Typ.	1150cd/㎡ Typ.	3000cd/㎡ Typ.
Calibration brightness	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ
Contrast ratio	1800:1 Typ.	1800:1 Typ.	1800:1 Typ.	1500:1 Typ.	1500:1 Typ.	1200:1 Typ.	2000:1 Typ.	2000:1 Typ.
View angle	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	170°Typ.	178°Typ.	178°Typ.
Input signal	DisplayPort: 20 pin DVI-D : 24 pin VGA: D -Sub 15 pin	DisplayPort: 20 pin DVI-D : 24 pin VGA: D -Sub 15 pin	DisplayPort: 20 pin DVI-D : 24 pin VGA: D -Sub 15 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin
Power supply	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V
Power consumption	60W max.	50W max.	50W max.	80W max.	50W max.	50W max.	80W max.	80W max.
Size (WxHxD)	369x511-596x220mm 	369x511-596x220mm 	369x511-596x220mm 	369x511-596x220mm 	369x511-596x220mm 	395x505-585x235mm 	395x505-585x235mm 	395x505-585x235mm

Specification Sheet

	Diagnostic Display				Clinical Display				
Model	C44W+	C61W+	C82W+	C83W+	C1216W	C14S	C14ST (With touch support)	G11S	C24S+
Product name	4MP Integrated Dual-screen Display	6MP Integrated Dual-screen Display	8MP Integrated Dual-screen Display	8MP Integrated Dual-screen Display	12MP Color Medical Display	1MP Color Medical Display	1MP Color Medical Display	1MP Grayscale Medical Display	2MP Color Medical Display
Display size	30″	30″	31.5″	27″	30.9″	19″	19″	19″	21.3″
Resolution	2560x1600	3280x2048	3840x2160	3840x2160	4200x2800	1280x1024	1280x1024	1280x1024	1600x1200
Pixel pitch	0.2505x0.2505mm	0.197x0.197mm	0.182x0.182mm	0.15525×0.15525mm	0.1554x0.1554mm	0.294x0.294mm	0.294x0.294mm	0.294x0.294mm	0.270x0.270mm
Support color	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	16.7 Million	16.7 Million	1024 grayscale	1.07 Billion
Brightness	700cd/㎡ Typ.	1300cd/㎡ Typ.	1000cd/㎡ Typ.	800cd/㎡ Typ.	1200cd/㎡ Typ.	330cd/㎡ Typ.	330cd/㎡ Typ.	1400cd/㎡ Typ.	500cd/㎡ Typ.
Calibration brightness	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ.	190cd/㎡ Typ.	190cd/㎡ Typ.	600cd/㎡ Typ	300cd/㎡ Typ
Contrast ratio	1000:1 Typ.	2000:1 Typ.	1300:1 Typ.	1000:1 Typ.	1500:1 Typ.	1000:1 Typ.	1000:1 Typ.	1000:1 Typ.	1800:1 Typ.
View angle	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.
Input signal	DisplayPort: 20 pin*2 DVI-D : 24 pin*2 VGA: D -Sub 15 pin	DisplayPort: 20 pin*2 DVI-D : 24 pin*2 VGA: D -Sub 15 pin	DisplayPort: 20 pin*2 DVI-D : 24 pin*2 VGA: D -Sub 15 pin	DisplayPort: 20 pin*2 DVI-D : 24 pin*2 VGA: D -Sub 15 pin	DP*2 HDMI *2	DisplayPort: 20 pin DVI-D : 24 pin VGA: D -Sub 15 pin	DVI-D : 24 pin VGA: D -Sub 15 pin	DVI: DVI-D 24pin VGA: D-sub 15pin DP: DisplayPort 20pin	DisplayPort: 20 pin DVI-D : 24 pin VGA: D -Sub 15 pin
Power supply	DC 24V	DC 24V	DC 24V	DC 24V	AC 100-240V	AC 100-240V	AC 100-240V	AC 100-240V	DC 12V
Power consumption	80W max.	160W max.	160W max.	100W max.	180W max.	60W max.	40W max.	45W max.	50W max.
	699x498-578x251mm	700x504-584x251mm	752x503-583x251mm	651x463-583x251mm	687x490~590x263.5mm	417x417-497x235mm	436x397.2x179mm	417x417-497x235mm	369x511-596x220mm
Size (WxHxD)									

Specification Sheet

	Clinical Display					Consultation Display				Interventional Display
Model	C22W C22WT (With touch support)	HL2316SHA	HL2316SHTB (With touch support)	HL2416SH	HL2416SHT (With touch support)	M553T (With touch support)	M652T (With touch support)	M8681T (With touch support)	M982T (With touch support)	S551
Product name	Multi-function Clinical Display	Multi-function Clinical Display	Multi-function Clinical Display	Multi-function Clinical Display	Multi-function Clinical Display	Medical Image Consultation Center	Medical Image Consultation Center	Medical Image Consultation Center	Medical Image Consultation Center	8MP Surgical Display
Display size	21.5″	23.8″	23.8″	24″	24″	55″	65″	86″	98″	55″
Resolution	1920x1080	1920x1080	1920x1080	1920x1200	1920x1200	3840x2160	3840x2160	3840x2160	3840x2160	3840x2160
Pixel pitch	0.248x0.248mm	0.2745x0.2745mm	0.2745x0.2745 mm	0.270x0.270mm	0.270x0.270mm	0.315x0.315mm	0.372x0.372mm	0.4935x0.4935mm	0.5622x0.5622mm	0.315x0.315mm
Support color	16.7 Million	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion
Brightness	250cd/㎡ Typ.	600cd/㎡ Typ.	600cd/㎡ Typ.	600cd/㎡ Typ.	600cd/㎡ Typ.	500cd/㎡ Typ.	450cd/㎡ Typ.	500cd/㎡ Typ.	500cd/㎡ Typ.	700cd/㎡ Typ.
Calibration brightness	160cd/㎡ Typ.	180cd/㎡ Typ	180cd/㎡ Typ	180cd/㎡ Typ	180cd/㎡ Typ	500cd/㎡ Typ	450cd/㎡ Typ	500cd/㎡ Typ	500cd/㎡ Typ	560cd/㎡ Typ
Contrast ratio	1000:1 Typ.	1000:1 Typ.	1000:1 Typ.	1000:1 Typ.	1000:1 Typ.	1100:1 Typ.	1400:1 Typ.	1200:1 Typ.	1300:1 Typ.	1450:1 Typ.
View angle	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.	178°Typ.
Input signal	DisplayPort: 20 pin DVI-D : 24 pin VGA : D-sub 15 pin Audio : 3.5mm stereo jack Speaker: 5W*2	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin VGA: D-sub 15 pin	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DP 1.2*2 DVI Dual-Link*1	DisplayPort: 20 pin DVI-D : 24 pin	DisplayPort: 20 pin DVI-D : 24 pin CVBS: BNC VGA: D-sub 15 pin
Power supply	DC 12V	AC 100-240V	AC 100-240V	AC 100-240V	AC 100-240V	AC 100-240V	AC 100-240V	AC 100-240V	AC 100-240V	AC 100-240V
Power consumption	40W max.	60W max.	60W max.	60W max.	60W max.	150W max.	220W max.	300W max.	640W max.	350W max.
Size (WxHxD)	523x376x179mm	569x410-490x220mm	569x387x220mm	561.2x422.8-502.8x220mm	561.2x402x220mm	1299.2x776.8x98.5mm	1520x902x120mm	1984.4x1159x131mm	2252.2x1314.9x132.5mm	1287.2x761.2x90mm

Awards

- GE: The world's most competitive supplier
- Siemens: The best cooperation partner
- Neusoft: Sincere cooperation award
- Mindray: The best supplier/Best quality award
- United Imaging: The best supplier
- Canon: The excellent supplier
- Sonoscape: The excellent supplier
- Landwind: The excellent supplier
- Wisonic: The excellent supplier
- Zoncare：The excellent supplier

Partners (List in no particular order)

Certification Authority, Top Quality

The company has a sound management system certification in compliance of the quality management system (ISO9001 : 2015), the medical device industry quality management system (ISO13485 : 2016), environmental management system (ISO14001: 2015), occupational health and safety management system (ISO45001: 2018) to ensure product quality and sustainable development. The products hold certification such as CCC, CE, CB, FDA, TUV, UL, and fully meet international standards.