

THE FUTURE OF DR



SONTU50

FLAT PANEL DETECTOR

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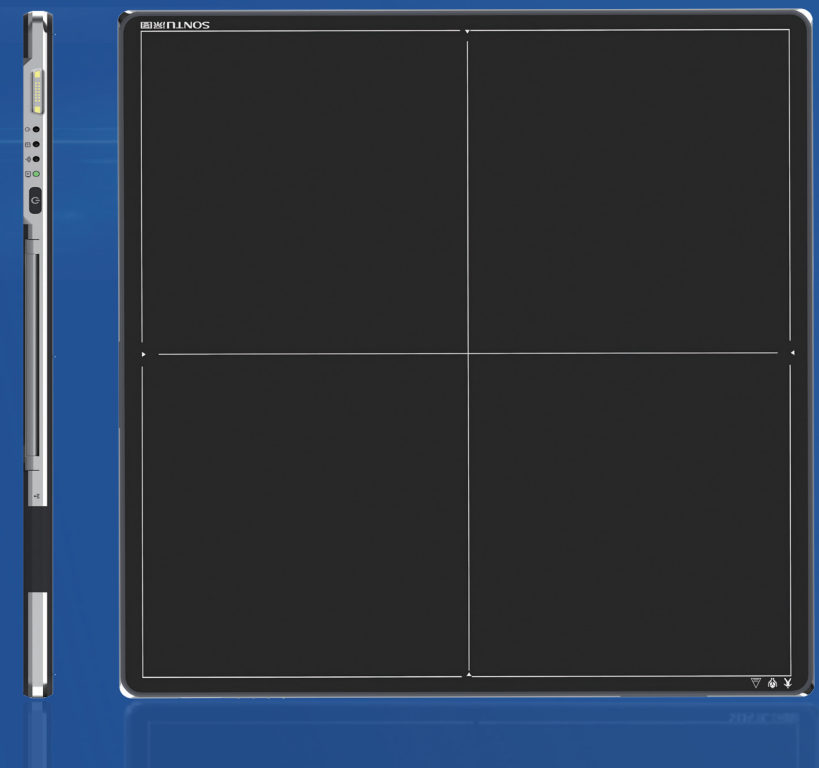
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SONTU Medical



MISSION

Advancing the quality of care with constant innovations. Empowering the global medical system with high-quality imaging.

VISION

To be the leading brand in the industry.

VALUES

Dedicated for the satisfaction of our clients and employees.

ABOUT US

Founded in 2009 and headquartered in Shenzhen, Shenzhen SONTU Medical Imaging Equipment Co., Ltd. ("SONTU") is a global manufacturer specializing in medical imaging equipment and a pioneer in independent development of digital X-ray detectors and digital X-ray imaging systems in China. By sticking to an innovation-driven development strategy, SONTU has achieved independent and controllable core technologies of digital X-ray image chain and system technologies. Today, it is one of the few manufacturers in the world that master mature technologies related to various core components of X-ray machines and system development. Many SONTU technologies are China's first and at the forefront of the industry worldwide.

SONTU's product line covers general radiology, dental imaging, vehicle-mounted imaging, and veterinary imaging. Over 20 products have been designated as national excellent medical equipment. SONTU has been a top three supplier of flat panel detectors in China for many years, and its products have been well accepted in the international markets, including North America, South America, Africa, Asia and Europe, bringing China's intelligent manufacturing to the world. At present, SONTU's digital X-ray imaging system has become a synonym for low dose and high image quality in the DR field.



Users across the globe



Intellectual property
right certificates



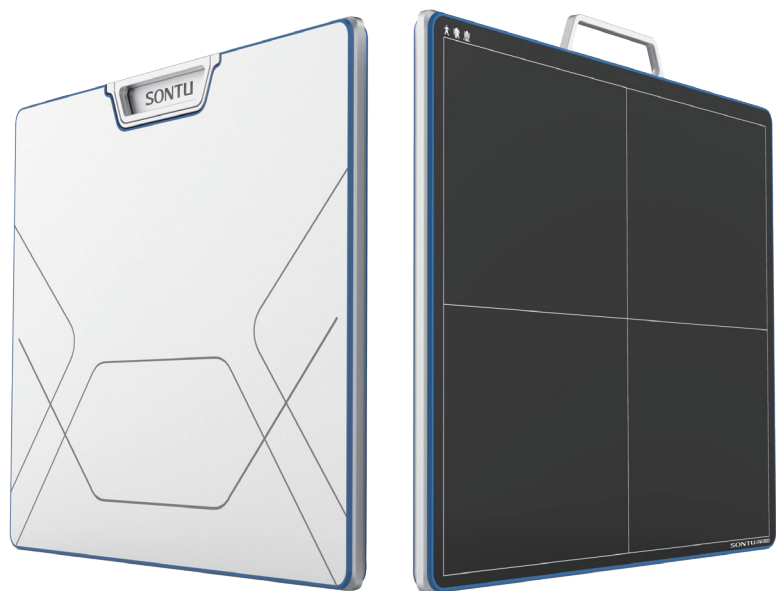
Countries /
regions covered



R&D Centers

Wired Flat Panel Detector

SONTU's flat panel detector supports two size options and provides an optimal solution for upgrading the current computed radiography system to meet the digital radiography syetem.



Independent intellectual property rights, multiple patents



High sensitivity, high spatial resolution



Dust resistance and waterproofing, IP54 ingress protection



Automatic Exposure Detection (AED) (standard)



Automatic Exposure Control (AEC) (optional)



User-friendly design with concealed handles



Lower dose, safer for human body

Technical Specifications

Model	SONTU50-4336S-C/G	SONTU50-4343S-C/G
Scintillator	CsI/GOS	CsI/GOS
Active Area (inch)	14x17	17x17
Pixel Matrix	2496×3040	3072×3072
Pixel Pitch (μm)	140	140
Spatial Resolution (lp/mm)	3.4	3.4
Full Image Time (s)	5	5
Dimension (mm)	462*384*16	462*462*16
Weight(kg) include battery	3.2	4.1
A/D Conversion (bit)	16	16
Communication Interface	Gbit Ethernet	Gbit Ethernet
Load-bearing (kg)	135	135
Trigger Mode	"AED & Hardware sync & Software sync & Fixed integral "	"AED & Hardware sync & Software sync & Fixed integral "
Ingress Protection	IP54	IPX4
Operating Temperature (°C)	10 ~ 35	10 ~ 35
Operating Humidity(%RH)	30 ~ 90	30 ~ 90
Storage Temperature (°C)	-20 ~ +55	-20 ~ +55
Storage Humidity(%RH)	30 ~ 95	30 ~ 95

Technical Specifications

Model	SONTU50-4336W-C/G	SONTU50-4343W-C/G
Scintillator	CsI/Gos	CsI/Gos
Active Area (inch)	14x17	17x17
Pixel Matrix	2496×3040	3072×3072
Pixel Pitch (μm)	140	140
Spatial Resolution (lp/mm)	3.4	3.4
Full Image Time (s)	6	6
Dimension (mm)	462*384*16	462*462*16
Weight(kg) including battery	3.5	4.5
A/D Conversion (bit)	16	16
Communication Interface	Gbit Ethernet & WIFI 5G	Gbit Ethernet & WIFI 5G
Battery Standby Time(h)	8	8
Load-bearing(kg)	135	135
Trigger Mode	"AED & Hardware sync & Software sync & Fixed integral "	"AED & Hardware sync & Software sync & Fixed integral "
Operating Temperature (°C)	10 ~ 40	10 ~ 40
Operating Humidity(%RH)	30 ~ 75	30 ~ 75
Storage Temperature (°C)	-20 ~ +55	-20 ~ +55
Storage Humidity(%RH)	30 ~ 93	30 ~ 93

Wireless Flat Panel Detector

SONTU's wireless flat panel detector features more accurate AED, clearer image details, and longer battery life.

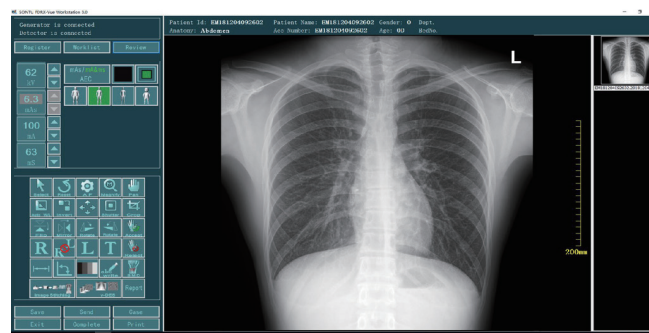


-  User-friendly design with concealed handles, comfortable for use
-  Simultaneous charging of two batteries with a charging base
-  Standard AED function for the whole series
-  Fast wireless transmission for convenient use
-  Fast charging with long battery life
-  Compact and portable
-  Status LED indicators

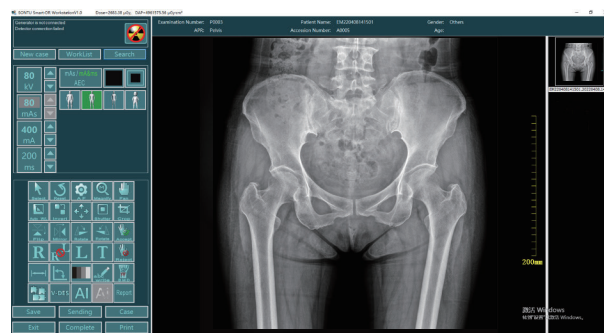


Superior Image Acquisition and Processing System

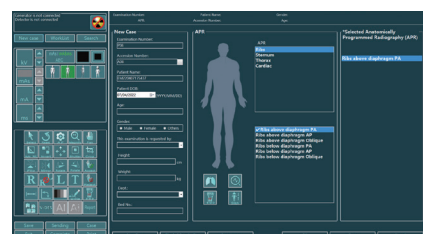
SONTU Smart-DR is an image acquisition and processing system. This IHE-certified, DICOM-compliant software has been independently designed and developed by SONTU and awarded a number of computer software copyrights by the National Copyright Administration of China. The software supports seven languages and can fit into the language habits of users in different countries.



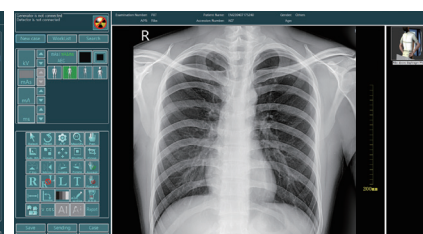
Chest PA



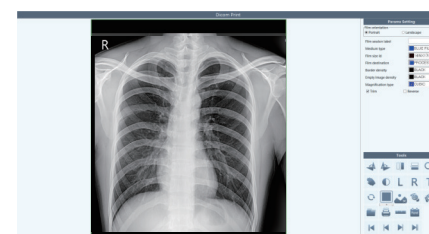
Pelvis AP



Registration



Save



Print

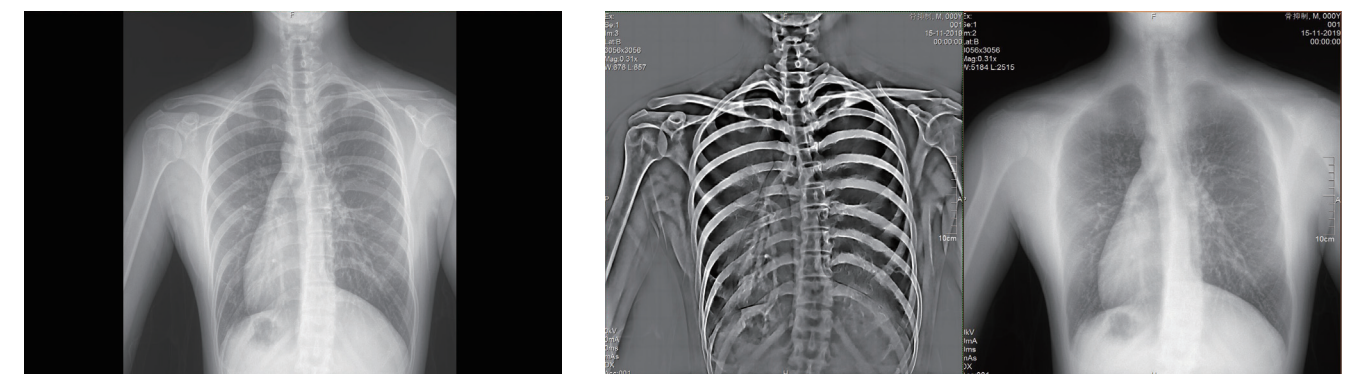


Cutting-edge Clinical Advanced Applications

SONTU's professional software development team has developed many advanced clinical applications. All these functions are well suited to SONTU's products to deliver clear images.



Virtual Dual-Energy Subtraction (standard)



Original Image

Bone Tissue

Soft Tissue

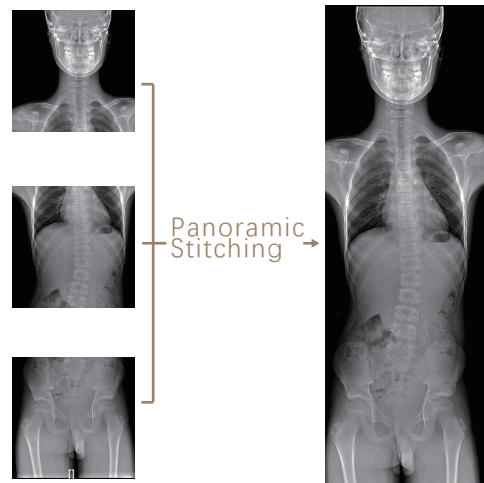
Virtual Dual-Energy Subtraction

SONTU's virtual dual-energy subtraction function is used in PA view chest imaging. Images of bone and soft tissue can be obtained from a single exposure, thus reducing patients' exposure to radiation dose and the wear and tear on the equipment. Images of soft tissue can help better diagnose the lesions behind ribs, such as pulmonary nodules and pulmonary infection; while images of bone are more suitable for examinations with PICC (peripherally inserted central catheter).

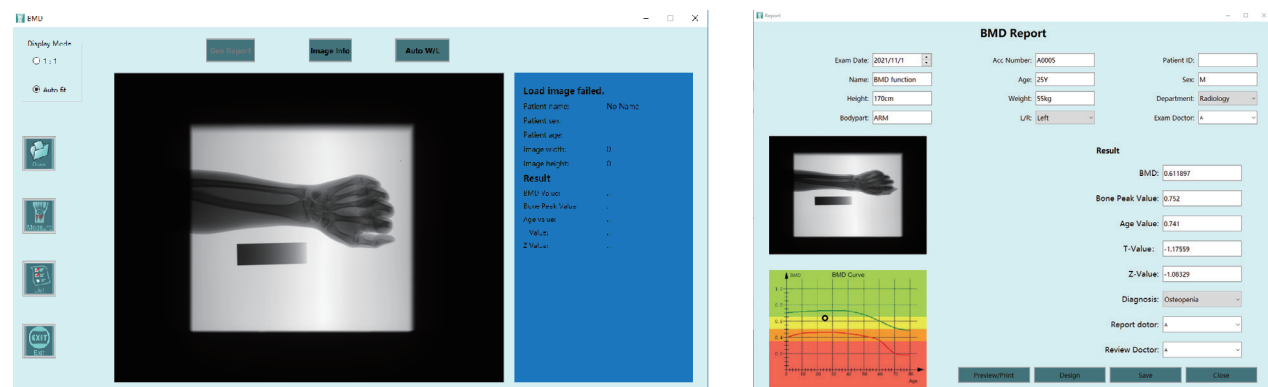


Panoramic Stitching (standard)

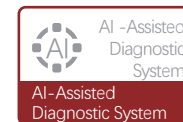
With the panoramic stitching technology, the size of flat panel detector is no longer a constraint on full-length imaging of spine or legs. It is crucial to qualitative diagnosis of pathological changes and data measurement in the diagnosis, surgery program development and postoperative function evaluation in correction of lateral curvature, total hip/knee arthroplasty, correction of lower limb deformities and limb prosthesis installation, full-length photography of femur or tibiofibula, etc.



Bone Mineral Density Measurement (optional)



SONTU's DR supports the bone mineral density measurement of radius and ulna. This function is mainly used for bone mineral density assessment, for example, to help diagnose osteoporosis in middle- and old-aged people. Bone mineral density measurement can be implemented with the existing DR equipment in hospitals, and features low radiation, ease of use, and fast imaging.



AI-assisted Diagnostic System (optional)

The SONTU AI- assisted diagnostic system serves to help identify various chest diseases ,such as lungnodules and pneumothorax,accurately and efficiently with simple equiment operations.

- Locate suspected lesions
- Mark suspicious areas
- Provide lesion information

SONTU's AI-assisted diagnostic system empowers radiologists with faster workflow and higher diagnostic accuracy, saving time and energy for medical professionals to focus more on patient care.

