



DIGITAL TABLE SYSTEM

SONIALVISION 100



Versatility, Patient Care, Exceptional Imaging and Workflow Optimization

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Sonialvision 100 is a multi-purpose, digital table system. With its compact size, Sonialvision's smooth and accurate movement achieves astounding upper and lower digestive tract imaging, digital tomography, abdominal DSA, lower extremity DSA, and interventional radiology (IVR). The wide patient coverage, due to the versatility of the imaging system and table elevation functions offered by the Sonialvision's new design, creates a digital R/F system that is simple to operate and that reduces stress on operator and patient alike.

Sonialvision's unique design and exceptional network flexibility create a complete workflow solution offering examination to diagnosis in an efficient use of hospital space and resources.

*Compact, multi-functional system
enhances patient throughput*

*Exceptional high quality image harmonized
with advanced technologies*

*Ergonomic design provides comfortable examination
for patient and operator alike*

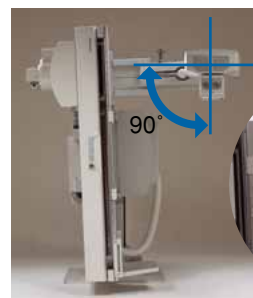
*Exceptional workflow from patient examination
to radiologist diagnosis*

Multi-functional usage based on a flexible design allows for a variety of examinations

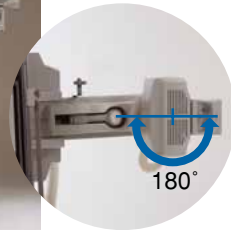
The Sonialvision 100 is a multi-functional system that meets the demand for today's versatile R/F environments. Offering excellent performance in all diagnostic areas, Sonialvision enhances the operational efficiency of any R/F room.

Digital Spot/Fluoroscopy

Sonialvision's superior performance is satisfactorily displayed with many scenes of Radiography Fluoroscopy incorporated with large size imaging plate of 35cm×43cm FOV as well as flexible table movement from standing (90°) to inverted (-90°).



180 degree X-ray tube/collimator rotation for wall bucky radiography



90 degree rotation of the X-ray tube/collimator easily and effectively accommodates emergency patients on stretchers



-45° to -60° table tilting used in contrast imaging of the anterior stomach wall



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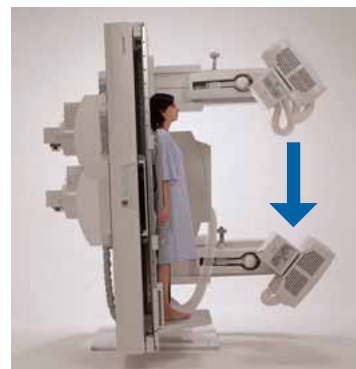
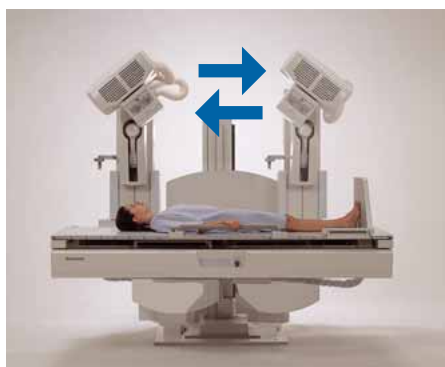
Digital Tomography

IP (Imaging Plate for Computed Radiography) tomography and I.I. tomography are standard features.

Tomographic imaging performed in either upright or backward angled

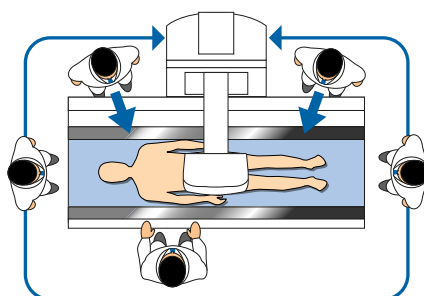
Multiple layer height images can be acquired with a series of I.I. digital tomography.

Vertical Tomography for chest pleural effusion diagnosis

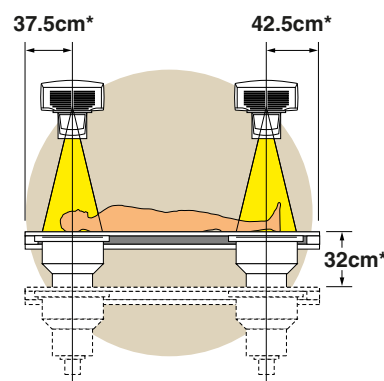


DSA & Interventional Procedures

Sonialvision 100 can be equipped with an advanced digital imaging system that performs a variety of DSA* examinations. Shimadzu's patented table design reduces stress on both patient and operator for angiographic, interventional, or endoscopic procedures. (*Optional)



Excellent patient access from complete table perimeter



* Model without I.I. retracting function and with 30cm I.I. mounted

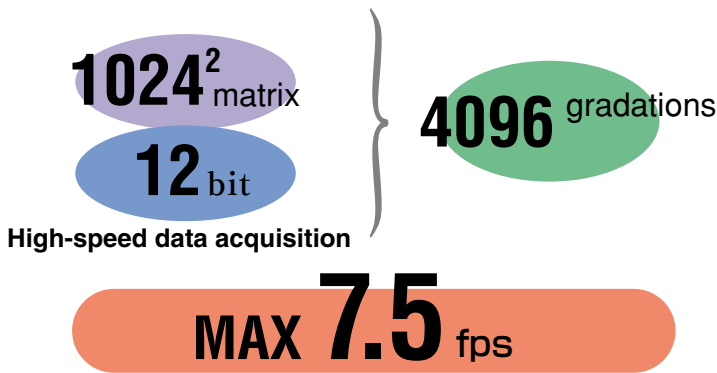
- Variable table height for convenient examinations during angiographic, interventional, or endoscopic procedures
- Wider fluoroscopic and radiographic image field to both ends of the tabletop without spot film device allows efficient examinations with normal positioning and without patient anxiety, e.g. urological examination.



Exceptional quality imaging combined with advanced technologies

Sonialvision 100 provides exceptional imaging while incorporating new designs of the X-ray system, patient table and digital imaging platform.

The digital imaging platform features 4096-gradations, 12-bit density resolution, high-speed data acquisition up to 7.5 fps



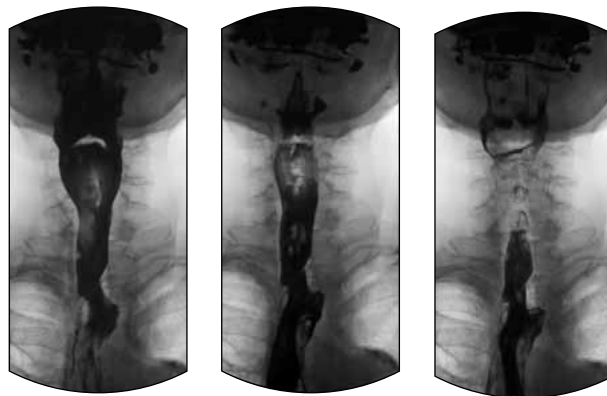
The revolutionary design used for full body coverage by moving the imaging chain and keeping the patient stationary results in sharp DSA* images and negligible mis-registration due to body movement, e.g. lower extremity angiography with step movement of the imaging system. (*Optional)



High resolution digital spot imaging of gastrointestinal tract



High speed serial imaging of esophagus



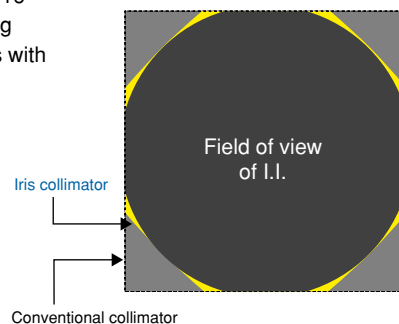
Abdominal DSA examination



Shimadzu's patented Memory Shot automatically sets the appropriate radiography parameters from the fluoroscopic exposures. Utilizing Memory Shot, the operator can set and store 16 detailed technique programs ensuring exact repeatable high-quality images with low X-ray exposure for the selected anatomy.

Memory Shot
16 Programs

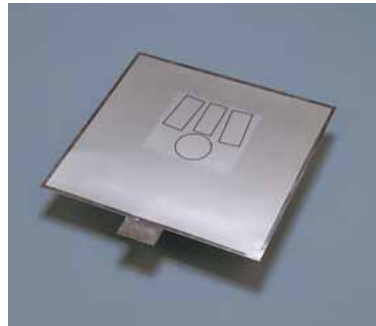
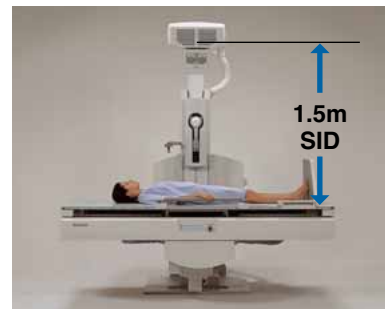
The iris collimator achieves high image quality and dose reduction; A precision, iris collimator is adopted to achieve exposure field to match the selected I.I. input size automatically.



SONIALVISION 100



The Sonialvision 100 incorporates high-precision photo-timers allowing up to four fields* for cassette radiography of left and right lung, abdomen and lateral chests. The result: stable, high quality, lateral lung and abdominal radiographs not subject to distortion as with typical three field detectors. (*Optional)



Sonialvision 100 features a 1.5 m SID imaging function as standard, exposing near actual size images.

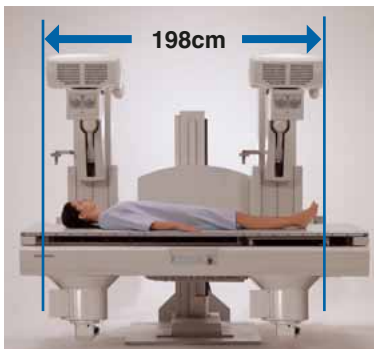
Remote control console incorporated with digital imaging system and X-ray control console (in case of Remote-controlled system)



Contemporary system design promotes patient care

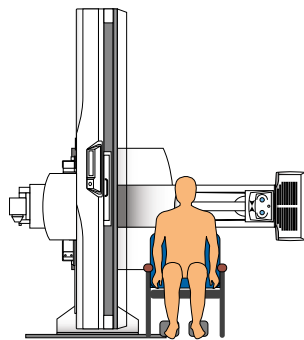
Developed with the patient in mind, the Sonialvision 100 offers a safer, more comfortable examination. Every system movement takes the position of the patient and operator into account. The contemporary system design conducts efficient examinations while reducing stress on the patient and operator.

Maximum 198cm* image field (in case of 35cm x 43cm IP), e.g. urological examinations at the lower edge of the table.

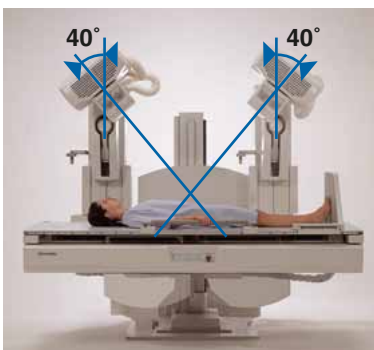


*Model without I.I. retracting function.

Small table-foot allows wheelchair go closer to the table, e.g. for barium swallow examination.



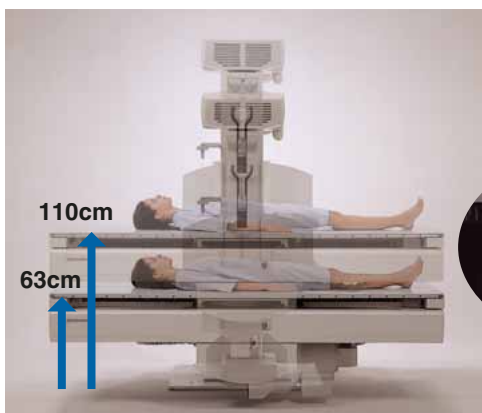
A previously unheard of $\pm 40^\circ$ angle of X-ray incidence useful for orthopedic examinations



Shimadzu's unique precision machining of the tabletop totally eliminates the step between the metal side rails and central carbon fiber reinforced plastic table to achieve a perfectly flat tabletop. The tabletop is easy to clean during angiography and interventional procedures.



- Allowance load 204kg
- Simplified patient changeover
- Easy to clean during examinations
- Excellent examination capability of large patients



The Sonialvision 100 incorporates Shimadzu's pioneered elevating table design allowing for step-free movement between 63 cm and 110 cm above the floor with a 30cm mounted image intensifier



The I.I. automatically retracts* into the table housing based on the working height requirement, allowing the tabletop to lower to 63cm**.

*This brochure describes a model with I.I. retracting function. Another model without I.I. retracting function is also available.

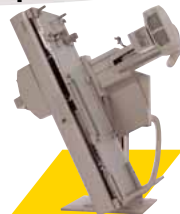
**In case of 12" I.I. combined.

SONIALVISION 100



X-ray and digital acquisition condition

Table movement protocol



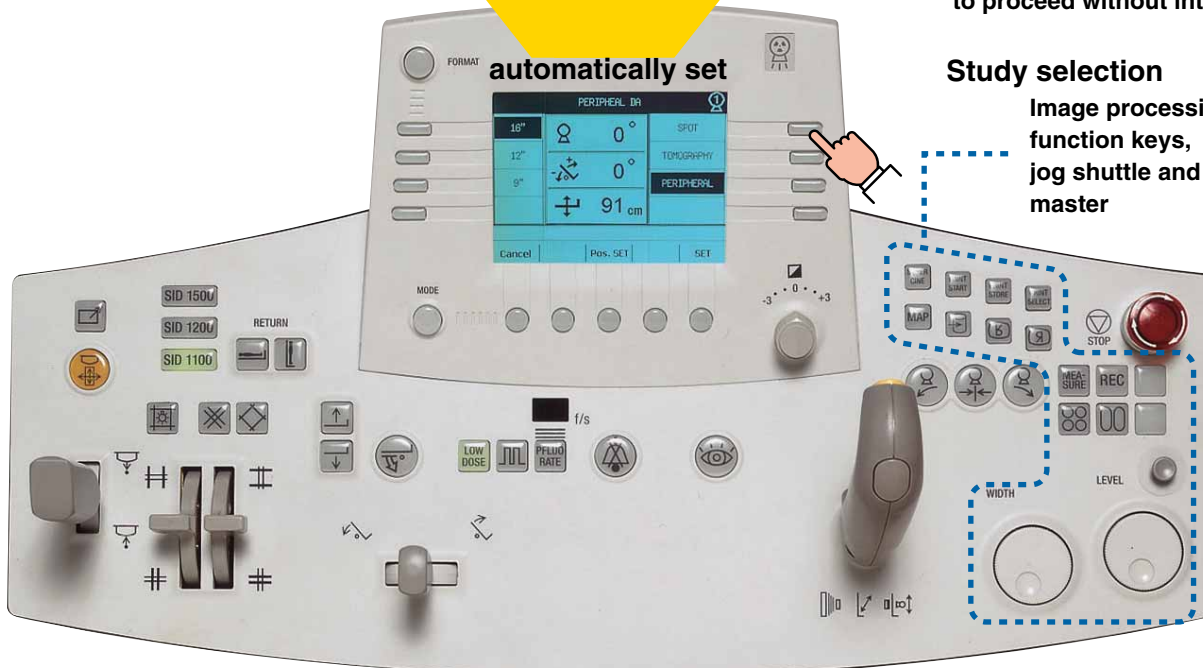
automatically set

Action Memory function

The Action Memory function permits table movement protocol settings, X-ray parameter settings and digital processing selection settings with a single action. This feature allows quick examination setting without looking away from the console, allowing examination to proceed without interruption.

Study selection

Image processing function keys, jog shuttle and IVR master



Fully digital system compliments R/F workflow

Digital imaging is the key technology for handling all stages through patient registration, diagnosis, film output, and image storage as well as for increasing the efficiency of hospital space utilization and establishing the examination workflow. The Sonialvision 100 is a complete digital platform for this workflow concept.

Imaging Plate

Large FOV digital cassette radiography using Imaging Plate for Computed Radiography

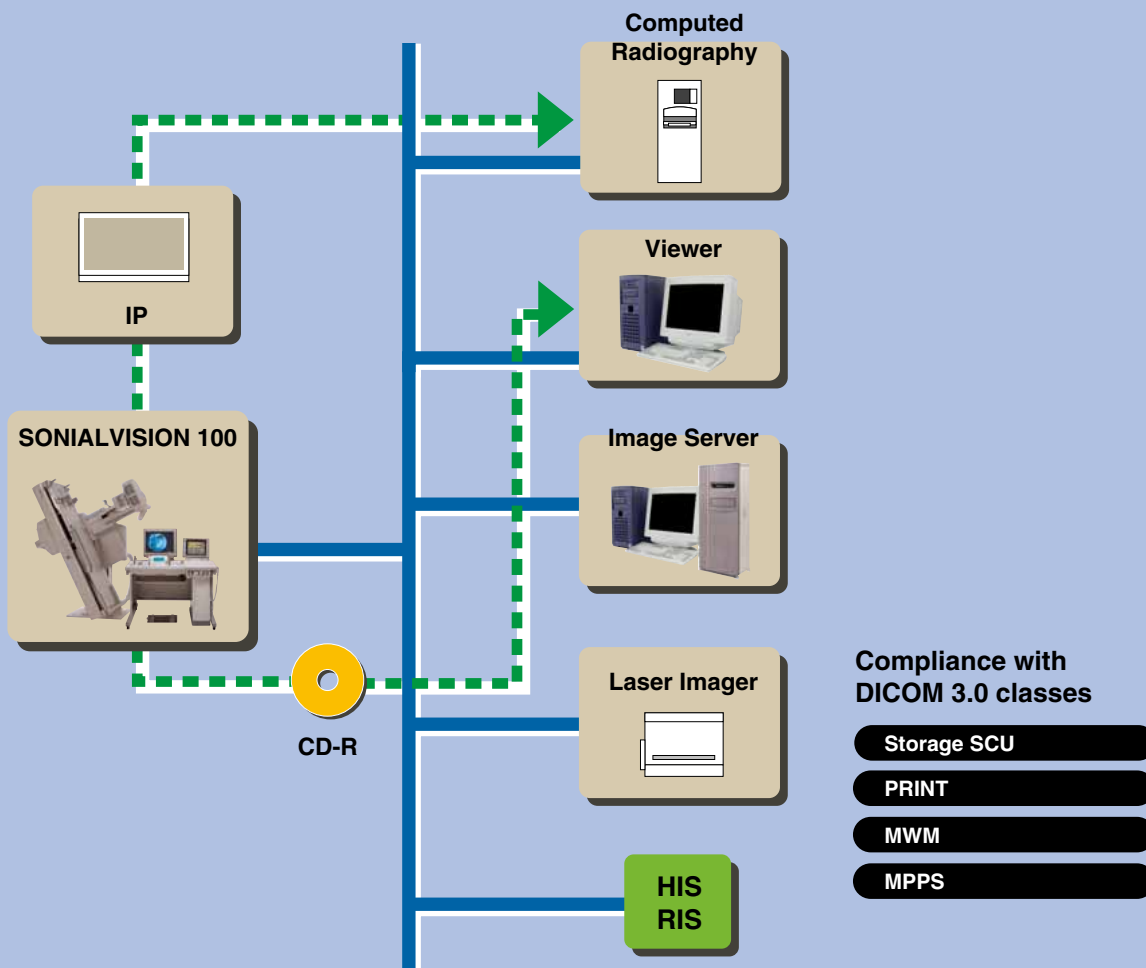
Digital Imaging System

Rapid, high-resolution digital spot/DSA with the state-of-the-art digital imaging system

DIGITAL NETWORK

Networks provide a powerful tool for examination workflows. The Sonialvision 100's compatibility with various service classes of the DICOM 3.0

standard* allows for image storage on hospital PACS and the flexibility to connect with in-hospital RIS networks. *Optional



Specifications

Recommended System Configurations

Digital Imaging System	DIGITEX PRO	
X-ray high voltage generator	UD150B-30	
X-ray tube assembly	0. 6/1.2P324DK-100SF(400kHU)	0.4/0.7JG326D-265(750kHU)
X-ray tube starter	SA-41UD	SA-61
Image intensifier	IA-12LD/HG12 (30cm FOV)	
	IA-12LT/HG12 (30cm FOV)	
	IA-16LT12 (40cm FOV)	
CCD X-ray TV camera	XT-7120SD	

Main Body (ZS-100IR) Standard Constitution

Table body assembly	1
Control box	1
Control console	1
Compression cone (flat and extruded)	1 each
Shoulder rest	1 set
Hand grip	1 set
Foot rest	1
Barium cup holder	1

Control console variation



Local control console



Desk mounted type



Remote control console
Desk top type

Power Requirements

X-ray high voltage generator	UD150B-30	
System	Three-Phase AC*	
Frequency	50 or 60 Hz	
Rating voltage	200V	400V
Capacity	75kVA or more	75kVA or more
Allowable impedance	0.054 Ω	0.11 Ω
Grounding terminal	100 Ω or less	10 Ω or less
Knife switch capacity	100A or more	100A or more
Rating of circuit breaker	100A max	75A max

In case of 200V system auto transformer XAT-2 is required

*Please note that the special circuit breaker for inverter should be used, which prevents malfunctions in a high frequency circuit.

Dimensions

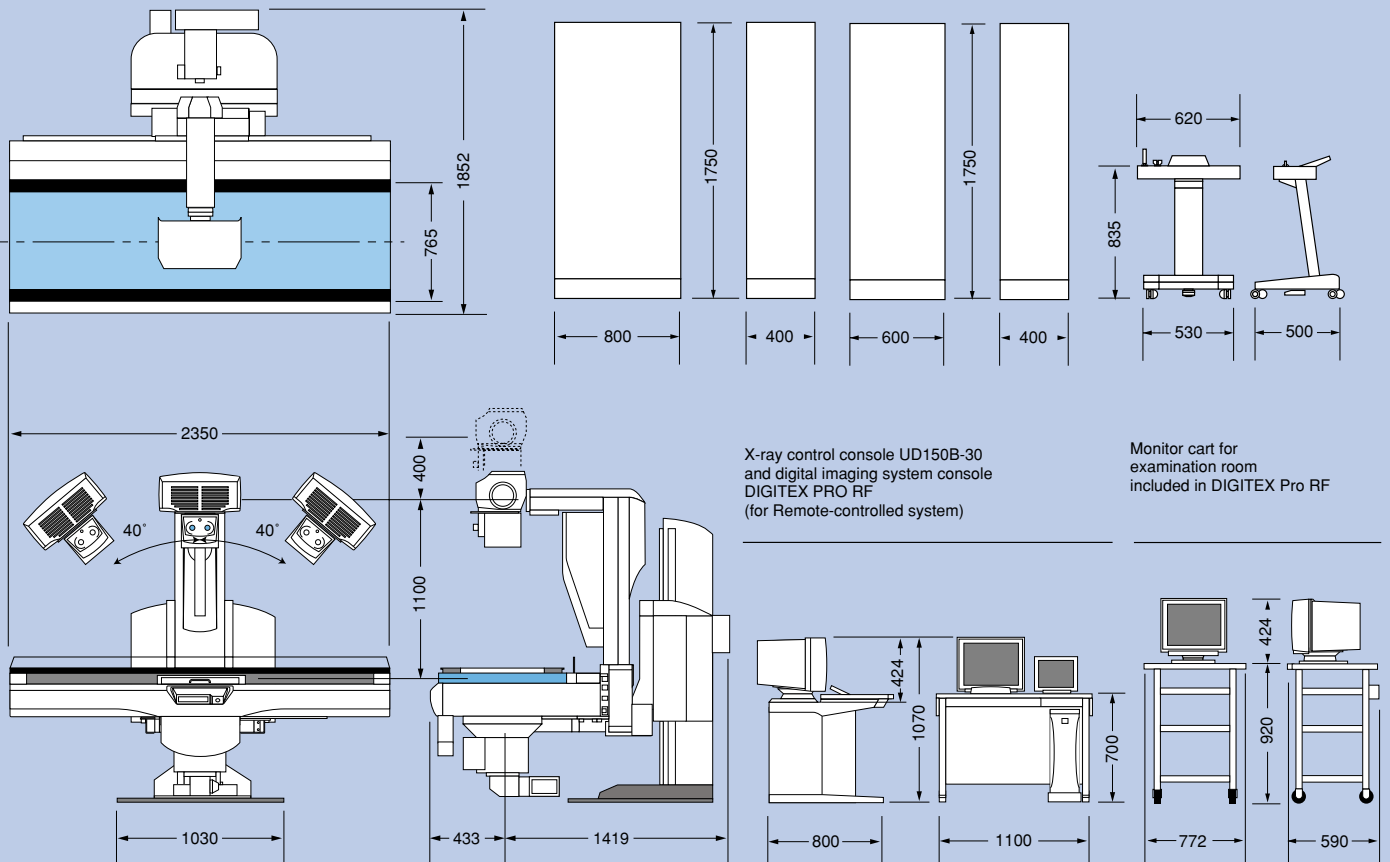
Unit:mm

Digital R/F table ZS-100 IR
Weight 1400kg

Control cabinet
(included in UD150B-30) Weight 240kg
Second control cabinet
(included in UD150B-30,
only for starter SA-61) Weight 170kg

Control box
(included in ZS-100 IR)

Local control console





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Remarks:

- ※Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
- ※The appearances and specifications are subject to change for reasons of improvement without notice.
- ※Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.
- ※Before operating this system, you should first thoroughly review the Instruction Manual.