SHIMADZU

Digital R/F System

SONIALVISION G4 (edition





GENERAL

SONIALVISION G4 is a digital R/F system that is designed with the concept of multipurpose, patient care, low dose, exceptional image quality and workflow optimization. The following various applications are easily performed;

- Digital fluoroscopy
- Digital spot/serial imaging
- Digital Subtraction Angiography (option)
- Endoscopy procedures
- Orthopedics
- Myelography
- · General radiography
- Bariatric studies
- Urogenital examinations
- Slot Radiography (option)
- Tomography (standard) / Tomosynthesis (option)

CONFIGURATION STANDARD CONFIGURATION

(1) Table body assembly 1 set (ZS-200)

This unit consists mainly of a body frame, an X-ray tube supporting tower, a FPD support -ing base, and a tabletop. Fluoroscopy/radiography can be performed at an optimum position, with adjusting elevation, tilting, and lateral movement of the tabletop, longitudinal movement of the imaging unit, and oblique projection of X-ray beam.

(2) System control console

This console operates the table system.

Selectable:

- · Operation desk
- · Control box type on the tabletop
- · Console cart
- (3) Control cabinet

This box controls the table system by communication.
The cabinet includes cables to connect each component such as the table main body, the control console, and X-ray high voltage generator.

(4) X-ray beam collimator (R-300)

The X-ray beam collimator controls the exposure field automatically to suit fluoroscopy/radiography.

- · Iris collimator
- Asymmetric collimator
- Virtual collimator
- Beam hardening filter (Automatically selected to Cu 0.1 mm,0.2 mm or 0.3 mm)

(5) Accessories

- · Scatter removal grid
- Footrest
- Shoulder rest
- Hand grips (right/left)
- · Overhead hand grip
- Soft tabletop mattress

(6) Monitor

- · Acquisition / Reference
- 19" LCD
- 24 bit Color Monitor (16,777K Color Square Dot Matrix)
- (7) Digital radiography system1 set (DR-300)
 - · Control Cabinet
 - FPD Unit
 - Standard Accessory (Keyboard, Mouse)
 - Media Storage Device (Incorporated in Control Cabinet)
 - · DICOM Print Software
 - · Pulse Fluoroscopy Software
 - SUREengine-Advance image enhancement
 - SCORE PRO Advance
 - Digital Tomography

(8) X-ray tube unit selectable:

(0.7/1.2JG326D-265)

- 750 kHU X-ray tube
- Starter SA-61S (0.4/0.7JG326D-265)
- 750 kHU X-ray tube
- Starter SA-61S
- (9) X-ray high voltage generator 1set D150BC-40S (80 kW)
 - · Control cabinet
 - High voltage generator (Incorporated in the control cabinet)
 - · Connection cable
 - Phototimer

OPTIONAL ITEM

- Local console selectable:
- · Standard control console
- · Control console with touch panel
- Standard control console with monitor
- · Monitor cart
- Monitor expanded box
- Compression cone / Barium cup holder (Factory Option)
- · Compression band
- · Lateral cassette holder
- · Urology leg support
- · Endoscope support
- · Drain pan/ bag
- · Elbow support
- · Cystography chair
- · Safety sensors
- · Foot controller
- · Rotary footrest
- · Footrest for myelography
- · Foot switch for examination room
- Drip hanger
- Hand grip
- Grid rack
- Auxiliary tabletop (600 mm)
- 500 lb (227 kg) weight option
- 2nd tube console
- UPS (DR-300)
- · DSA software
- DICOM storage software, Including DICOM storage commitment software
- DICOM MWM software
- DICOM MPPS software
- · DICOM RDSR software
- Barcode reader
- · Laser line marker for collimator
- · Area dosimeter
- Slot Radiography
- Footrest for Slot Radiography
- Standing position belt for Slot Radiography
- · Hand grip for Slot Radiography
- Footrest board for Slot Radiography
- Tomosynthesis
- Side Station i3
 for Oblique Tomo
- for Oblique Tomosynthesis / Tsmart PRO Tomosynthesis
- 1.8 m SID (Factory Option)
- Smart FOV (Field of View)

FEATURES

(1) Large field FPD;

A large-field 17x17 inch FPD and digital image processing enable you to acquire high quality diagnostic images.

(2) High quality imaging;

The image is processed and stored at the original quality of the matrix at the time of the capture.

(3) SCORE PRO Advance (fluoroscopy);

The real-time image-processing engine improves the visibility of small targets with motion detective process, while maintaining the high-speed realtime characteristic of fluoroscopy.

(4) SUREengine-Advance (radiography);

The digital filters provide uniform overall contrast of the captures and suppress the halation and loss of shadow details.

(5) Pulse fluoroscopy;

As a standard feature, four modes of pulsed fluoroscopy (up to 30 fps) can be selected to suit the examination, for the reduction of patient dose while maintaining high image quality.

(6) BH Filters Switch to Suit the Examination;

Three beam hardening (BH) filters are provided as standard to efficiently remove unnecessary soft X-rays that do not contribute to image quality. The optimal BH filter is selected to suit the examination by simple operation, so exposure dose reduces.

(7) Lower Dose with a Removable Grid; The SONIALVISION grid can be mounted or removed to suit the radiography application. The grid can easily be removed for pediatric, obstetrics and gynecological examinations when radiation dose to the patient must be kept to a minimum.

- (8) Collimation
 - · Virtual collimation
 - · Left and right asymmetrical collimator
 - · Iris collimator
- (9) Seamless tabletop;

The tabletop can be raised or lowered in the height range from 47 cm to 110 cm to help the patient get on or off and allow the operator to take an unforced pose according to required examinations.

And table offers the highest weight capacity in its class up to 318 kg (700 lb) at horizontal position, easily accommodating bariatric patients as well.

(10) Wide coverage, 202.5 cm (17x17 inch);

The wide longitudinal sliding range of the imaging system with large tabletop provides head to toe coverage without moving the patient. The edge of the imaging range can be positioned as close as 9.5 cm from the head-end of the table.



(11) Wheelchair examination:

Wheelchair patients can be examined simply by extending the imaging chain to 1.5 m SID or 1.8 m SID (Factory Option).

(12) Stretcher applications;

The tube head can rotate 90 degrees at vertical position for the stretcher.



(13) Getting on/off position mode;

To reposition the table when getting on or off, simply press a button.

With 47 cm the lowest minimum table height and X-ray tube unit extension at horizontal table position, even elderly patients can get on and off easily.

(14) The control panel is equipped with a 10.4 inch LCD touch panel, where the operator can view the patient information or change the fluoroscopy or radiography condition. The screen layout or display options can be switched as appropriate according to the purpose of examination.

Customizable hard switches help you access to the frequently used functions with a single touch of a button.

SPECIFICATIONS (R/F table)

	lte	em	Content
	Size		76.5 × 235 cm (flat type)
	Lateral	Range	25 cm
	movement	Speed	5.0 cm/sec max.
		Range	+90° to -90°
	Table tilting	Speed	Max. 6°/sec , soft start and soft stop
do			Max. 5.3°/sec , soft start and soft stop *1
Table top	Elevation	Table height	47 – 110 cm from floor
Tab	(at		204 kg (450 lb)
	horizontal	Allowance load	227 kg (500 lb) (in all operations, with 500 lb weight option.)
	position)	weight	318 kg (700 lb) (patient is stationary and lying horizontal.)
	Distance bet surface and	ween Table top FPD	75 mm
		terial / Attenuation	CFRP / 0.8 mm Al equivalent
	Longitudina	Range	160.5 cm (Imaging range: Max. 202.5cm)
	I movement		15 cm/sec max. (continuously variable)
	Distance bet	ween X-ray focus	110, 120, 150 cm (standard)
	and FPD (SI	D)	110, 150, 180 cm (With 1.8m SID option, SID 180 cm is available only for
uni			vertical or Trendelenburg position.)
lmaging unit	Distance between X-ray beam axis		59.5 - 220 cm (+90° table tilting)
nag	and floor surfa	ace at vertical position	46.5 - 207 cm (-90° table tilting)
_	Oblique angl	e of X-ray beam	Max. 40 degrees (caudal-cranial)
	projection		Max. 40 degrees (cranial-caudal)
	X-ray tube rotation angle		Vertical: Counter-clockwise 90°
			Trendelenburg: Clockwise 90°
	Field collimation		H-leaves and V-leaves
.uo	Collimation functions		Virtual collimation
mat			Octagonal Iris collimation
Collimation			Asymmetric collimation
	Beam harder	ning filter	0.1 mm Cu, 0.2 mm Cu, 0.3 mm Cu
	Туре		Ratio: 10:1, Density: N 50 cm ⁻¹ , Focal distance: 120 cm,
75			Ratio: 10:1, Density: N 50 cm ⁻¹ , Focal distance: 180 cm, (with 1.8 m SID
Grid			option) Intermediate material: Al
	Scatter remo	oval grid	Detachable
	Space needed for installation		D 3000×W 3700 mm or more *2
for		ou for motaliation	With 1.8 m SID option, D 3000×W 4200 mm or more *3
Requirements for Installation	Ceiling height needed for installation		Recommended: 290 cm or more
equire Insta			Minimum: 260 cm *4
ž	Operation/maintenance weight		Approximately 1560 kg

Notes *1; In case of the system combined 500 lbs. weight option, the speed of tilting is 5.3 degrees/sec

Notes *2; Although a floor width of at least W 3700 mm is recommended, W 3500mm is also acceptable.

However, the tilting of table at SID:150 cm will be limited. The cabinets are installed outside of examination room.

Notes *3; Although a floor width of at least W 4200 mm is recommended, W 3900 mm is also acceptable.

However, the SID at -90° tilting of table will be limited. The cabinets are installed outside of examination room.

Notes *4; The longitudinal movement of imaging unit is confined.

SPECIFICATIONS (Digital system)

		Item	Content
Digital Radiography Digital Radiography Digital Radiography Digital Radiography		Digital Radiography	Orthopedics, General radiography, Gastrointestinal, Myelography, Urology and Others
		Digital Angiography (option)	Real-time DSA
		nmable Procedures Memory	More than 2,000 patterns (with automatic system positioning and X-ray conditions)
Hard	are	OS	Microsoft Windows 7 or later
Ï	W	Operation	Mouse and keyboard
		X-ray Detector	Flat Panel Detector
		X-ray Conversion Material	CsI (Cesium Iodide Scintillation)
Imade Input		FPD Field Size	(17" x 17" , 15" x 15", 12" x 12", 9" x 9", 6" x 6") (42 x 42 cm, 38 x 38 cm, 30 x 30 cm, 23 x 23 cm, 15 x 15 cm)
משמ	199	Pixel Pitch	139 μm
	=	Resolution	3.6 lp/mm
		Dynamic Range	16 bits (65,536 graduations)
		DQE (0 lp/mm)	65% or more
		Matrix	1024 x 1024 matrix
		Pulsed Fluoroscopy	Pulse Rate: 30 / 15/ 7.5/ 3.75 fps
	Fluoroscopy	Fluoroscopy Image Storage	Direct store / LIH store / Loop store Up to 1000 frames per run (Ex. 7.5 fps images are memories for 133 sec.)
g		MAP Fluoroscopy (DSA option)	Subtraction MAP mode This mode enables a subtraction between a fluoroscopic image and a black peak image, the subtraction image is superimposed on the fluoroscopy image.
essin		Virtual collimation	Enables to configure irradiation field by displaying the collimator position onto fluoroscopic LIH image.
me Proc		SCORE PRO Advance (Fluoroscopy)	High-speed real-time image processing engine - Real-time multi frequency processing - Real-time flexible noise reduction
uisition / Real-Time Processing		SPOT Acquisition	Single Acquisition 3032 x 3032 (1512 x 1512) matrix (FPD field: 42 x 42 cm) 2704 x 2704 (1352 x 1352) matrix (FPD field: 38 x 38 cm) 2056 x 2056 (1024 x 1024) matrix (FPD field: 30 x 30 cm) 1624 x 1624 (808 x 808) matrix (FPD field: 23 x 23 cm) 1024 x 1024 (512 x 512) matrix (FPD field: 15 x 15 cm)
Acq		Multi-frame imaging	2 or 4 images split horizontally / vertically
Image Acquisition	Radiography	Serial Acquisition	Frames rate: Max 15 frames/sec 3032 x 3032 (1512 x 1512) matrix (FPD field: 42 x 42 cm) 2704 x 2704 (1352 x 1352) matrix (FPD field: 38 x 38 cm) 2056 x 2056 (1024 x 1024) matrix (FPD field: 30 x 30 cm) 1624 x 1624 (808 x 808) matrix (FPD field: 23 x 23 cm) 1024 x 1024 (512 x 512) matrix (FPD field: 15 x 15 cm)
		SUREengine-Advance (Radiography)	The digital filters suppress the halation and loss of shadow details fo SPOT images.
		DSA Acquisition (option)	Real time subtraction at 7.5 frames/sec (max.) Real-time DSA / RSM-DSA function



SPECIFICATIONS (Digital system) (cont.)

Item			Content
_		Movement	Linear
Image Acquisition	ξ		SID:110 cm
	Tomography	Exposure position	Possible at any table tilting angle from +90° to -90°
		Exposure angle	8°, 20°, 30°, 40°
		Speed	Max.2.5 sec. / 40°
=		Layer height	0 mm – 250 mm from the tabletop surface
±.	Hard Disk		Up to 500 GB: 10000 images (1024 x 1024 matrix)
<u>0</u>	ວ ກ		DVD : 4.7 GB ; 2000 images (1024 x 1024 matrix)
Image	*	DVD-R, CD-R	CD: 700 MB; 300 images (1024 x 1024 matrix)
Image	5		(DICOM Media format)
à	<u> </u>	(*) Software of media storage for dig	ital images, with DICOM image viewer is included.
		Graduation Processing	Density/contrast adjustment, black/white reversal, auto optimization processing (AWC)
		Gamma processing	Selection from up to 10 types of graduation conversion curve
		Edge Enhancement	Template filter processing
		Noise Reduction Filter Processing	Recursive processing
		H/V Inversion	Horizontal or vertical direction inversion
2	<u> </u>	Zoom	X4
9	20	Multiple Image Display	Multiple-image display (2 x 2 or 4 x 4)
	<u>5</u>	Annotation	Overlays display text and figure on the image
	inage Processing	Re-masking (option)	By selecting arbitrarily a mask image again, a new subtraction image can be created. Requires DSA option.
	<u>-</u>	Re-registration (option)	By moving arbitrarily a mask image, perform subtraction. Requires DSA option.
		Stacking (option)	Hold Peak value for pixel of multi-frames. Requires DSA option.
		Landmarking (option)	Creates and displays a live image of DSA radiography. Requires DSA option.
/leasurement	Processing	Distance Measurement	Measures the distance on the image
Measu	Proce	Angle Measurement	Measures the angle on the image
		Output to Laser Imager	Compatible with DICOM print (Allows output to DICOM Laser Imager)
		Media Output	DVD-R, CD-R (DICOM Media format)
		Network interface	100/1000 Base-T
DICOM Communication	CallOL	Output to Image Server (option)	Compatible with DICOM storage (Allows output to DICOM image server) Format is "RF", "XA", "CR" or "DX" DICOM storage option includes DICOM Storage Commitment.
		DICOM Modality Worklist (MWM) (option)	Receives study information from the server. Studies for the same person can be combined on modality.
) 	DICOM Modality performed procedure step (MPPS) (option)	Sends study results to server
2	Š	DICOM Radiation Dose Structured Report (RDSR) (option)	Sends X-ray dose information to the network
		Barcode reader (option)	Inputs patient information from barcode reader and performs search with MWM (option)



${\bf SPECIFICATIONS}\;({\bf Digital\;system}\;)\;({\bf cont.})$

	Item	Content		
Document -ation	Reject analysis	Provide statistics of rejected images.		
Docu-at	Exposure Index	Provide Exposure Index value		
phy	X-ray exposure can produce a High speed mode Slot width:	g chain and FPD unit with the slit collimation longitudinal radiographic image. 4 cm, Composite width: 2 cm on both sides 2 cm, Composite width: 1 cm on both sides		
gra	Max. imaging range	145 cm x 42 cm		
SLOT Radiography (option)	Positioning	Possible at any tilting angle SID: 110,120,150 cm (standard) or 110, 150 cm (with 1.8 m SID option)		
2	Longitudinal movement	High quality mode 6 cm/sec		
S	Speed of imaging unit	High speed mode 12 cm/sec		
	Acquisition rate	3 f/sec		
	Reconstruction parameter	Auto-configured by acquisition parameter Digital filter function :SUREengine-Advance		
	Measurement	Distance, Angle, Cobb angle		
	Movement	Linear		
Tomosynthesis (option)	Exposer position	SID: 110 cm Possible at any table tilting angle from +90° to -90°		
omosynt (option)	Tomographic angle	8°, 20°, 30°, 40°		
go)	Frame rate	15 fps		
'	Scan time	5 sec. (76 frames), 2.5 sec. (38 frames)		
	Layer Height	0 mm – 250 mm from the tabletop surface		
nart PRO (option)	Reconstruction method	Create a Tomosynthesis reconstruction image in the iteration method using images acquired in the Tomosynthesis acquisition.		
T-smart PRO (option)	Oblique Tomosynthesis	A horizontal and vertical oblique image of a maximum of 20 degrees is created from Tomosynthesis reconstruction images.		
of View)	Method	With the tabletop locked, move the FOV (under 15" x 15") to a position within 17" x 17" and enlarge the image within the FOV.		
Smart FOV (Field of View) (option)	FOV size	15" x 15", 12" x 12", 9" x 9", 6" x 6"		
Smart FC	Fluoroscopy rate	Pulse Rate: 15/ 7.5/ 3.75 fps		



SPECIFICATIONS (High voltage generator D150BC-40S (80kW))

Nominal maximum power			80 kW
	Tube vo		40 to 150 kV
	Tube current		10 to 1000 mA Any 12 of the following positions permitted by the X-ray tube can be used for each focus. 1000, 900, 800, 710, 630, 560, 500, 450, 400, 360, 320, 280,
			250, 220,200, 180, 160, 140, 125, 110, 100, 90, 80, 71, 63, 56, 50, 45, 40, 36, 32,28, 25, 22, 20, 18, 16, 14, 12, 11, 10 mA
Setting range of Radiography	mAs		0.5 to 800 mAs Set from the following 65 positions. 500 mAs is the upper limit for AEC radiography. 0.50, 0.56, 0.63, 0.71, 0.80, 0.90, 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12.5, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 71, 80, 90, 100, 110, 125, 140, 160, 180, 200, 220, 250, 280, 320, 360, 400, 450, 500, 560, 630, 710, 800 mAs
	Time		0.001 to 10 sec Set from the following 81 positions. (Cannot be set with any mAs value below 0.5 or above 800 mAs. 500 mAs upper limit for AEC radiography.) 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56,63, 71, 80, 90, 100, 110, 125, 140, 160, 180, 200, 220, 250, 280, 320, 360,400, 450, 500, 560, 630, 710, 800, 900 ms, 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0,2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10 sec
Setting range	Tube voltage		50 to 125 kV
of	Tube current		0.3 to 20 mA
Fluoroscopy *1	Time		Total time display: 99 min 59 sec., continuous fluoroscopy time: 10 min
Short-time rating *2			150 kV 500 mA, 125 kV 630 mA, 100 kV 800 mA 80 kV 1000 mA
Long-time rating	j *2		75 kV 20 mA, 125 kV 12 mA
Min. tube currer	nt time pro	oduct	0.5 mAs
Nominal min. exposure time (AEC radiography)			3 ms
Nominal X-ray tube voltage and max. tube current that can flow at nominal X-ray tube voltage *2			Short-time rating: 150 kV 500 mA Long-time rating: 125 kV 12 mA
Max. tube current and max. tube voltage to achieve max. tube current *2 Tube voltage and tube current combination for max. electrical output *2			Short-time rating: 80 kV 1000 mA 100 kV 800 mA Long-time rating: 75 kV 20 mA
		urrent ctrical output *2	Short-time rating: 80 kV 1000 mA, 100 kV 800 mA Long-time rating: 75 kV 20 mA, 125 kV 12 mA
Nominal supply		400 V line	3-phase AC: 380/400/415/440/480 V
voltage (50/60 h	Hz) 200V line		3-phase AC: 200/220/240 V

^{*1:} The setting range differs according to the type of X-ray tube unit.*2: Restrictions apply depending on the type of X-ray tube unit.

Load condition when combined with the X-ray tube unit

ltara	X-ray tube unit		
Item	0.7/1.2JG326D-265	0.4/0.7JG326D-265	
Nominal X-ray tube voltage and max. tube	Long-time rating	125 kV, 7.6 mA	125 kV, 7.6 mA
current that can flow at nominal x-ray tube voltage	Short-time rating	150 kV, 500 mA	150 kV, 360 mA
Max. tube current and max. tube voltage to	Long-time rating	80 kV, 11.8 mA	80 kV, 11.8 mA
achieve max. tube current	Short-time rating	100 kV, 800 mA	112 kV, 500 mA
Tube voltage and tube current	Long-time rating	125 kV, 7.6 mA	125 kV, 7.6 mA
combination for max. electrical output	Short-time rating	100 kV, 800 mA	112 kV, 500 mA 140 kV, 400 mA
		80 kW	50 kW
Nominal electric power		(100 kV, 800 mA, 0.1	(100 kV, 500 mA, 0.1
		sec)	sec)

AMBIENT CONDITIONS

Examination room

Ambient temperature	10 to 30 °C
Deletive by midity	15 to 75 % (No condensation)
Relative humidity	It is recommended to use a dehumidifier for humid control.
Atmospheric pressure	800 to 1060 hPa

Operation room

Ambient temperature	10 to 30 °C
Dolotivo humidity	20 to 70 % (No condensation)
Relative humidity	It is recommended to use a dehumidifier for humid control.
Atmospheric pressure	800 to 1060 hPa

The installation of a dedicated air-conditioner is recommended if the building air-conditioner cannot maintain the necessary environmental conditions 24 hours a day.

Power supply (for digital radiography unit)

- · Nominal voltage: 200/220/230/240 VAC, single phase
- Frequency: 50/60 Hz
- · Allowable voltage range (at no load): Nominal voltage ±10 %
- · Electric capacity: 3.0 kVA
- $\boldsymbol{\cdot}$ Grounding condition: Class D grounding (grounding resistance: 100 Ω max.)

Power supply (for high voltage generator, X-ray diagnostic table)

- · Nominal voltage: 200/220/240/380/400/415/440/480 VAC, 3-phase
- · Frequency: 50/60 Hz
- Allowable voltage range (at no load): Nominal voltage $\pm 10~\%$
- · Maximum Momentary load and recommended transformer capacity

	1 2
Maximum Momentary load	133 kVA
Recommended transformer capacity	75 kVA

· Safety devices

7			
Γ,	0001/15	Breaker	100 4
	200V line	Knife switch, fuse	100 A
	400V line	Breaker	75 A

· Grounding conditions

200V line	100 Ω max.
400V line	10 Ω max.

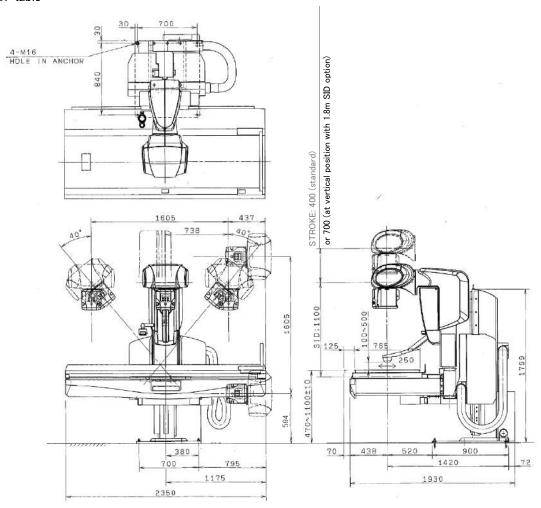
SPECIFICATIONS (High voltage generator D150VC-40S (65kW))

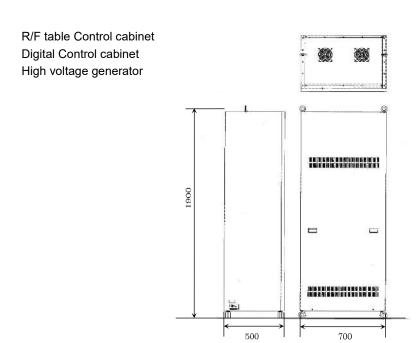
Nominal maximum power			65 kW
	Tube voltage		40 to 150 kV
	Tube current		10 to 800 mA
			Any 12 of the following positions permitted by the X-ray tube can be used for each focus: 800,710,630, 560, 500, 450, 400, 360, 320, 280, 250, 220, 200, 180, 160,140, 125, 110, 100, 90, 80, 71, 63, 56, 50, 45, 40, 36, 32, 28, 25, 22, 20,18, 16, 14, 12, 11, 10 mA
			0.5 to 800 mAs
Setting range of Radiography	mAs		Set from the following 65 positions. (500 mAs upper limit for AEC radiography.) 0.50, 0.56, 0.63, 0.71, 0.80, 0.90, 1.0, 1.1, 1.25, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12.5, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 71, 80, 90, 100, 110, 125, 140, 160, 180, 200, 220, 250, 280, 320, 360, 400, 450, 500, 560, 630, 710, 800 mAs
			0.001 to 10 sec
	Time		Set from the following 81 positions. (Cannot be set with any mAs value below 0.5 or above 800 mAs. 500 mAs upper limit for AEC radiography.) 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10, 11, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56,63, 71, 80, 90, 100, 110, 120, 140, 160, 180, 200, 220, 250, 280, 320, 360,400, 450, 500, 560, 630, 710, 800, 900 ms, 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.5, 2.8, 3.2, 3.6, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0, 9.0, 10 sec
Setting range	Tube voltage		50 to 125 kV
of	Tube current		0.3 to 9.0 mA
Fluoroscopy *1	Time		Total Time Display 99 min 59 sec, continuous fluoroscopy time 10 min.
Short-time rating	g *2		150 kV 400 mA, 130 kV 500 mA, 103 kV 630 mA, 81 kV 800 mA
Long-time rating) *2		75 kV 20 mA, 125 kV 12 mA,
Min. tube currer	nt time pro	oduct	0.5 mAs
Nominal min. exposure time (AEC radiography)			3 ms
Nominal X-ray tube voltage and max. tube current that can flow at nominal X-ray tube voltage *2			Short-time rating: 150 kV 400 mA Long-time rating: 125 kV 12 mA
Max. tube current and max. tube voltage to achieve max. tube current *2 Tube voltage and tube current combination for max. electrical output *2			Short-time rating: 81 kV 800 mA Long-time rating: 75 kV 20 mA
			Short-time rating: 130 kV 500 mA Long-time rating: 75 kV 20 mA, 125 kV 12 mA,
Nominal supply		400 V line	3-phase AC: 380/400/415/440/480 V
voltage (50/60 H	łz)	200V line	3-phase AC: 200/220/240 V

^{*1:} The setting range differs according to the type of X-ray tube unit. *2: Restrictions apply depending on the type of X-ray tube unit.

DIMENSIONS

R/F table

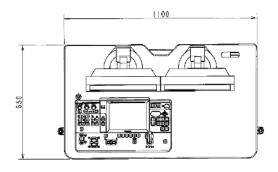


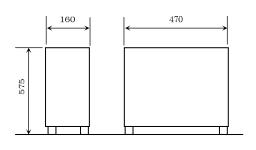


(3 cabinets are same dimensions)

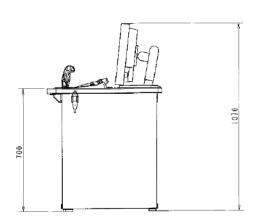
Unit : mm

Remote system control console

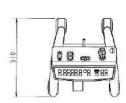


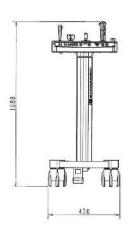




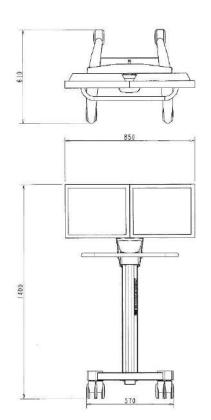


Local system control console





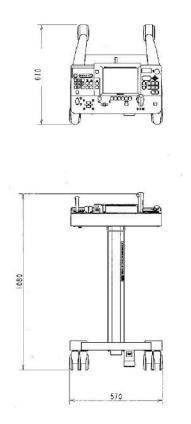
Monitor cart

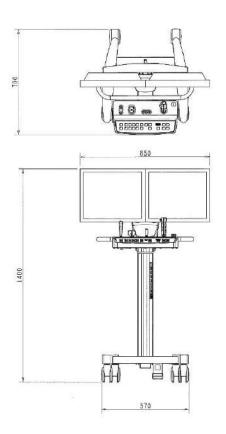


Unit : mm

Local system control console with touch panel









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