

SONIALVISION G4 IX edition

Digital R/F System



GENERAL

SONIALVISION G4 is a digital R/F system that is designed with the concept of multi-purpose, 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)

PRODUCT SONIALVISION G4 IX edition

CONFIGURATION STANDARD CONFIGURATION

Table body assembly

 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
 - Foot rest
 - 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 system 1 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
 - (0.7/1.2JG326D-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
- Compression cone / Barium cup holder
- Compression band
- Lateral cassette holder
- Urology leg support
- Endoscope support
- Drain pan/ bag
- Elbow support
- Cystography chair
- Safety sensors
- Foot controller
- Rotary foot rest
- Foot support for myelography
- Foot switch for examination room
- Drip hanger
- 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
- Dose reduction option
 (Iris collimator
 - Asymmetric collimator)
- Area dosimeter
- Slot Radiography
- Tomosynthesis
- Side Station i3 for T-smart tomosynthesis / Oblique Tomosynthesis
- 1.8 m SID (Factory Option)
- Radiography with 1417 size wireless FPD (Option)

PRODUCT SONIALVISION G4 LX edition

FEATURES

- Large field FPD ; A large-field 17×17 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 real-time 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 (option)
 - · Iris collimator (option)
- (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 (17×17 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.



BATA SONIALVISION G4 IN edition

SPECIFICATIONS (R/F table)

| | Item | | 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 | Smood | Max. 6°/sec , soft start and soft stop | |
| do | | Speed | Max. 5.3°/sec , soft start and soft stop *1 | |
| Table top | Flourtiers | Table height | 47 – 110 cm from floor | |
| Tat | Elevation | | 204 kg (450 lb) | |
| | (at 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 betw surface and FF | veen Table top PD | 75 mm | |
| | Tabletop mater | rial / Attenuation | CFRP / 0.8 mm Al equivalent | |
| | Longitudinal | Range | 160.5 cm (Imaging range: Max. 202.5cm) | |
| | movement | Speed | 15 cm/sec max. (continuously variable) | |
| | Distance betwe | en X-ray focus | 110, 120, 150 cm (standard) | |
| | and FPD (SID) | | 110, 150, 180 cm (With 1.8m SID option, SID 180 cm is available only for | |
| uni | | | vertical or Trendelenburg position.) | |
| maging unit | Distance between X-ray beam axis | | 59.5 - 220 cm (+90° table tilting) | |
| maç | and floor surface at vertical position | | 46.5 - 207 cm (-90° table tilting) | |
| | Oblique angle | 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 | |
| ion | Collimation functions | | Virtual collimation | |
| mat | | | Octagonal Iris collimation (option) | |
| Collimation | | | Asymmetric collimation (option) | |
| | Beam hardening 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, | |
| | | | Ratio: 10:1, Density: N 50 cm ⁻¹ ,Focal distance: 180 cm,(with 1.8 m SID | |
| Grid | | | option) Intermediate material: Al | |
| | Scatter removal grid | | Detachable | |
| Ę | Space needed for installation | | D 3000×W 3700 mm or more *2 | |
| tallati | | | 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 | |
| rement | | | Minimum: 260 cm *4 | |
| Requir | Operation/maintenance weight | | Approximately 1560 kg | |

Notes *1; In case of the system combined 500 lb 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.

PRODUCT SONIALVISION G4 LX edition

SPECIFICATIONS (Digital system)

| | Item | | Content | |
|----------------------------------|-------------|---|--|--|
| Applications Covered | | Digital Radiography | Orthopedics, General radiography, Gastrointestinal, Myelography, Urology and Others | |
| | | Digital Angiography (option) | Real-time DSA | |
| Programmable Procedures Memory | | mmable Procedures Memory | More than 2,000 patterns (with automatic system positioning and X-ray conditions) | |
| Hard ware | | OS | Microsoft Windows 7 or later | |
| | | Operation | Mouse and keyboard | |
| | | X-ray Detector | Flat Panel Detector | |
| Image Input | | X-ray Conversion Material | CsI (Cesium lodide Scintillation) | |
| | | 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) | |
| | nag | 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.) | |
| | | 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. | |
| essing | | Virtual collimation (option) | Enables to configure irradiation field by displaying the collimator position onto fluoroscopic LIH image. | |
| le Proce | | SCORE PRO Advance (Fluoroscopy) | High-speed real-time image processing engine - Real-time multi frequency processing - Real-time flexible noise reduction | |
| tion / Real-Time Processing I | | 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) | |
| quis | | 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 | The digital filters suppress the halation and loss of shadow details for | |
| | | (Radiography) DSA Acquisition (option) | SPOT images. Real time subtraction at 7.5 frames/sec (max.) Real-time DSA / RSM-DSA function | |
| | | Wireless FPD Acquisition (option) | Radiography with Wireless FPD Type: ADR2 1417HQ FNB *5 | |

Notes *5; Only "ADR2 1417HQ FNB" can be registered in the system. It is impossible to register multiple wireless FPDs in one system nor sharing this wireless FPD with other system.

PRODUCT SONIALVISION G4 IX edition

SPECIFICATIONS (Digital system) (cont.)

| | | Item | Content | |
|--|----------------------|--|--|--|
| _ Movement | | Movement | Linear | |
| Image Acquisition | Tomography | Exposure position | SID:110 cm Possible at any table tilting angle from +90 $^{\circ}$ to -90 $^{\circ}$ | |
| Act | logi | Exposure angle | 8°, 20°, 30°, 40° | |
| age | L P | Speed | Max.2.5 sec. / 40° | |
| <u> </u> | | Layer height | 0 mm – 250 mm from the tabletop surface | |
| | | Hard Disk | Up to 500 GB: 10000 images (1024 x 1024 matrix) | |
| Image | Recording Unit(*) | DVD-R, CD-R | DVD : 4.7 GB ; 2000 images (1024 x 1024 matrix) CD : 700 MB ; 300 images (1024 x 1024 matrix) (DICOM Media format) | |
| | ш | (*) Software of media storage for di | gital 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 | |
| | ing | Zoom | X4 | |
| | ess | Multiple Image Display | Multiple-image display (2 x 2 or 4 x 4) | |
| | LOCE | Annotation | Overlays display text and figure on the image | |
| | Image Processing | Re-masking (option) | By selecting arbitrarily a mask image again, a new subtraction image can be created. Requires DSA option. | |
| | | 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. | |
| to action of the second s | sing | Distance Measurement | Measures the distance on the image. | |
| | Processing | 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) | |
| | cation | Network interface | 100/1000 Base-T | |
| | | 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. | |
| | ommun | DICOM Modality Worklist (MWM) (option) | Receives study information from the server. Studies for the same person can be combined on modality. | |
| | DICOM Communication | DICOM Modality performed procedure step (MPPS) (option) | Sends study results to server | |
| | | 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) | |

PRODUCT SONIALVISION G4 IX edition

SPECIFICATIONS (Digital system) (cont.)

| | Item | Content | | |
|------------------------------|---|---|--|--|
| Document -ation | Reject analysis | Provide statistics of rejected images. | | |
| - ai Doct | Exposure Index | Provide Exposure Index value | | |
| hhy | Parallel movement of the imaging chain and FPD unit with the slit collimation X-ray exposure can produce a longitudinal radiographic image. High speed mode Slot width : 4 cm, Composite width : 2 cm on both sides High quality mode Slot width : 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) | | |
| SLO | Longitudinal movement Speed of imaging unit | High quality mode6 cm/secHigh speed mode12 cm/sec | | |
| | Acquisition rate 3 f/sec | | | |
| | Reconstruction parameter | Auto-configured by acquisition parameter Digital filter function :SUREengine-Advance | | |
| | Measurement | Distance, Angle, Cobb angle | | |
| <u>s</u> | Exposer position | SID: 110 cm Possible at any table tilting angle from +90 $^{\circ}$ to -90 $^{\circ}$ | | |
| Tomosynthesis (option) | Tomographic angle | 8° , 20° , 30° , 40° | | |
| option) | Frame rate | 15 fps | | |
| Tom(| Tomographic time | 5 sec.(76 frames), 2.5 sec. (38 frames) | | |
| | Reconstruction area | 0 mm – 250 mm from the tabletop surface | | |

PRODUCT SONIALVISION G4 IX edition ٢A

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

| Nominal maximum power | | | 80 kW | |
|---|--------------|--|--|--|
| | Tube voltage | | 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 | |
| | | | 0.5 to 800 mAs | |
| Setting range of Radiography *1 | 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 | |
| | | | 0.001 to 10 sec | |
| | Time | | Set from the following 81 positions. (Cannot be set with an 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 *2 | | | 75 kV 20 mA, 125 kV 12 mA | |
| Min. tube current time product | | | 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 | | | Short-time rating: 80 kV 1000 mA 100 kV 800 mA Long-time rating: 75 kV 20 mA | |
| 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, 125 kV 12 mA | |
| Nominal supply | 400 V line | | 3-phase AC: 380/400/415/440/480 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.

PRODUCT SONIALVISION G4 LX edition ٢A

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

| Nominal maximum power | | r | 65 kW | |
|--|--------------|------------|--|--|
| | | | 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 *1 | 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 an 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 *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 current time product | | | 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 | | | Short-time rating: 81 kV 800 mA Long-time rating: 75 kV 20 mA | |
| Tube voltage and tube current combination for max. electrical output *2 | | | 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 Hz) 200V line | | 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

| ltem | X-ray tube unit |
|--|---------------------------|
| llem | 0.7/1.2JG326D-265 |
| Normal X-ray tube voltage and max. tube current that can | 125 kV, 7.6 mA |
| flow at nominal x-ray tube voltage | 150 kV, 500 mA |
| Max. tube current and max. tube voltage to achieve max. | 80 kV, 11.8 mA |
| tube current | 100 kV, 800 mA |
| Tube voltage and tube current combination for max. | 125 kV, 7.6 mA |
| electrical output | 100 kV, 800 mA |
| Nominal electric power | 80 kW |
| | (100 kV, 800 mA, 0.1 sec) |

AMBIENT CONDITIONS

Examination room

| Ambient temperature | 10 to 30 °C |
|----------------------|--|
| Deletive humidity | 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 | |
|----------------------|--|--|
| Deletive 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: 7.0 kVA
- 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 ±10 %
- Maximum Momentary road and recommended transformer capacity

| Maximum Momentary road | 133 kVA |
|----------------------------------|---------|
| Recommended transformer capacity | 75 kVA |

Safety devices

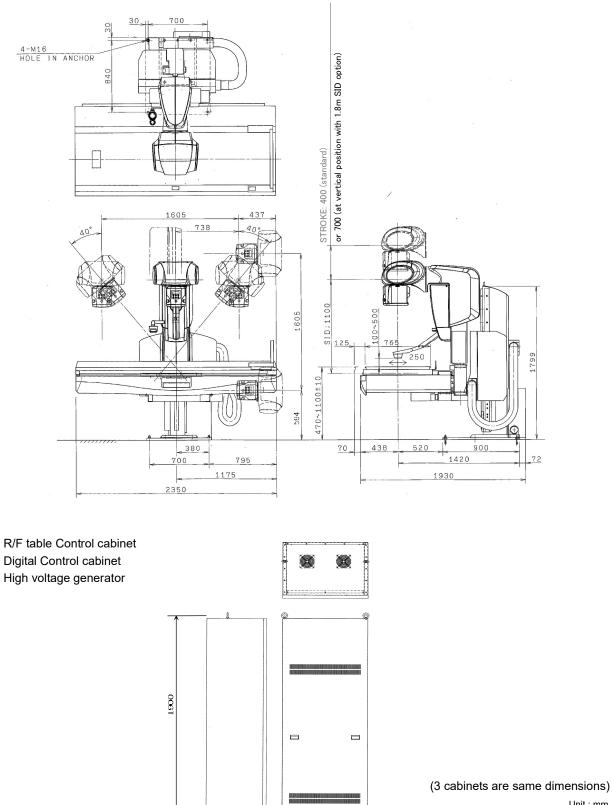
| 2001/1875 | Breaker | 100.4 | |
|----------------------|--------------------|-------|--|
| 200V line | Knife switch, fuse | 100 A | |
| 400V line | Breaker | 75 A | |
| Grounding conditions | | | |
| | | | |

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

PRODUCT SONIALVISION G4 IX edition DATA

DIMENSIONS

R/F table



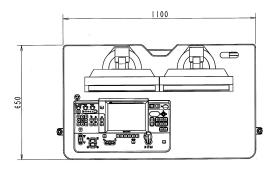
Unit : mm

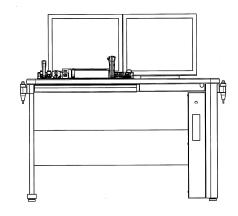
700

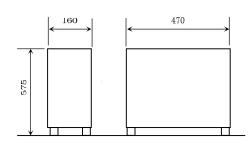
500

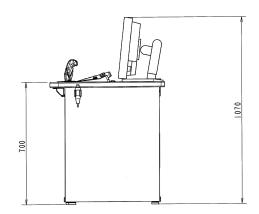


Remote system control console



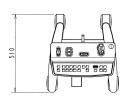


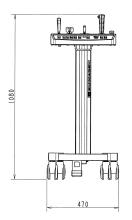


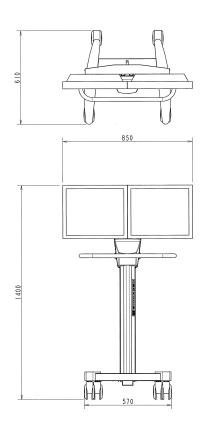


Local system control console

Monitor cart



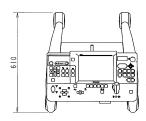


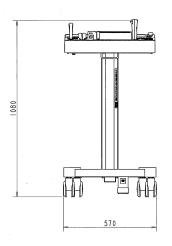


Unit : mm

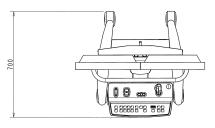


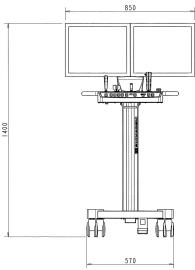
Local system control console with touch panel





Monitor cart with control panel





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Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2015 Quality Management Systems and ISO13485:2016 Medical Devices Quality Management Systems.

Remarks:

- Retriative:
 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.