

## SONIALVISION G4

Multi-purpose Digital R/F System

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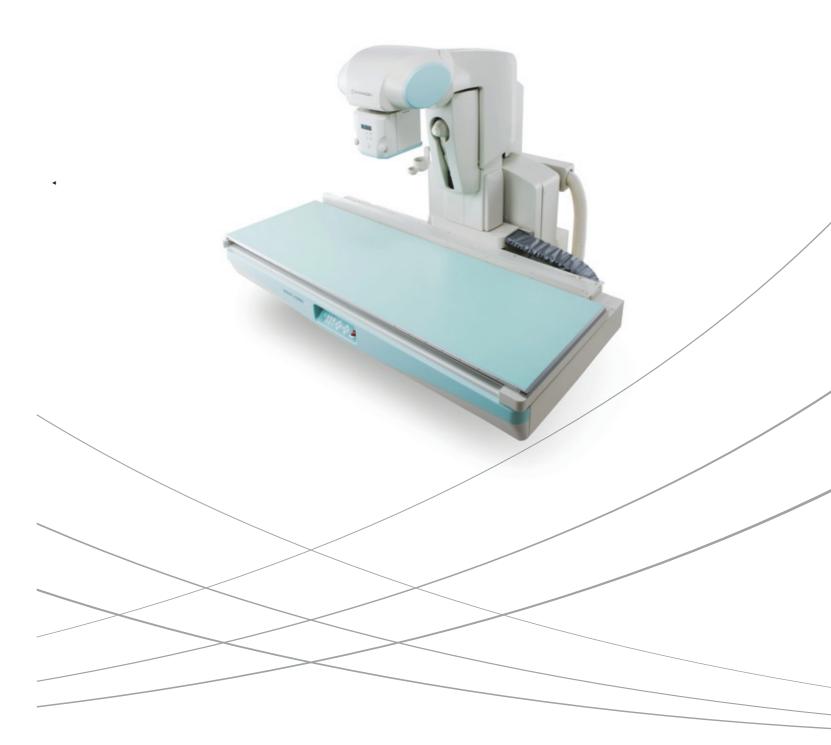
#### Shimadzu Corporation

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- 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
- 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.



# Selecting the best for every examination environment

BEST in CLASS

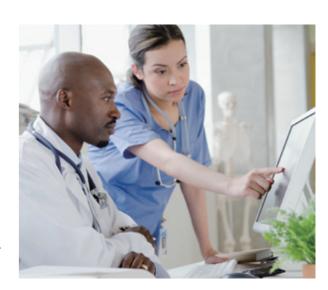
Multi-purpose Digital R/F System

## SONIALVISION G4



With the Sonialvision G4, Shimadzu offers a multi-functional universal system

—one that is useful in a variety of examinations and examination environments, provides high image quality, is easy to operate, and accommodates patient's comfort.







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### **Consistently High Image Quality**

— BEST Imaging

Best-in-class, 139 µm ultra-small pixel size FPD and our latest digital imaging technologies result in high image quality.







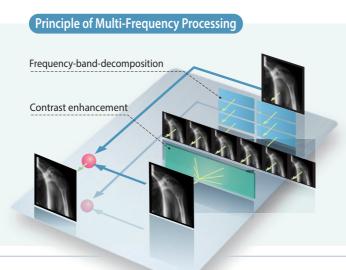


View both legs, entire chest, or abdomen with a large field-of-view (up to  $17 \times 17$  inches). Switch to a small field-of-view for detailed examinations of finger tips or other orthopedic regions.

State-of-the-art digital image processing technology ensures clearer fluoroscopy and radiography images

—— SUREengine-Advance(\*)

( \* Shimadzu Ultimate Real-time Enhancement imaging technology)





#### ■ Enhances Target Areas While Suppressing Halation

Various real-time digital filtering processes effectively suppress halation near the skin surface and around shadows where organs overlap.

#### ■ Efficiently Minimizes Fluoroscopy Noise

By extracting noise components and applying optimal digital filtering, the system effectively removes noise from obtained images with no delay or image lag, achieving smoother imaging.

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### Versatile Design for Various Examinations









 Our wide dynamic range imaging stably ensures high image quality while suppressing halation.



Perform chest radiography easily by extending the imaging system.



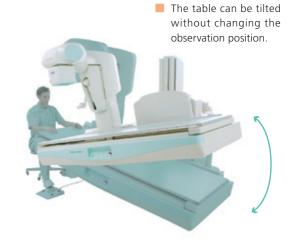
90 deg. X-ray tube rotation allows the studies to the patient on the stretcher.

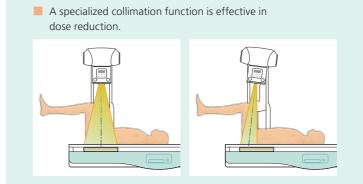


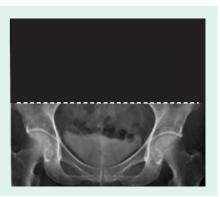
- The edge of the imaging range can be positioned as close as 9.5 cm from the head-end of the table (given a 17-inch FOV), making it easy to perform procedures using an optical endoscope.
- A urology foot switch is available for operating the imaging chain. (optional)



 Also, various dedicated options for Urology, such as Leg supports, Drain Bag, Endoscopy unit support arm are available.









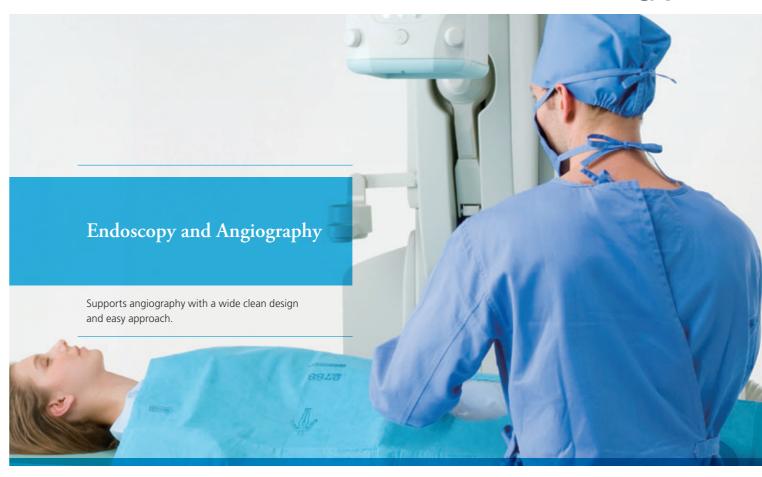


- Fluoroscopic images can also be saved in DICOM format.
- Max15cm/sec. quick movement of imaging chain with soft start/stop feature will ensure stress-free efficient examinations and higher productivity.



An oblique projection function prevents overlapping organs in examinations.





■ The area around the table is uncluttered, and the monitor and local control console can even be freely configured.



■ When images are flipped vertically, the imaging chain movement direction can be reversed accordingly, enabling smooth examination procedures.



■ The large field-of-view means DSA can be used for examination of everything from the hepatic artery to the entire lower extremities.

A wide, fully flat table with a high weight capacity ensures safety even during angiography procedures, and is easy to keep clean.

15cm/sec

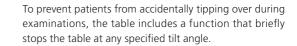


Control keys on the side of the table make it easy to support patients during examinations.





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



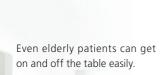


Designed for Safety and Reliability BEST Safety

Every detail has been carefully refined to maximize the examination efficiency for operators, and the safety and peace of mind of patients.

With the lowest minimum table height setting available in its class, even elderly patients can get on and off easily.

To reposition the table when getting on or off, simply press a button. The imaging chain retracts to the head end, and the X-ray tube unit is extended to ensure patient safety.



Soft rubber surrounds the collimator output port to provide cushioning in case the patient is bumped.



The clean-look new design covering all the cables around the X-ray tube ensures hygienic advantages.

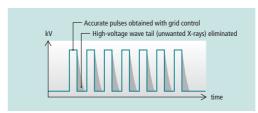
# Comprehensive Dose Reduction and Management



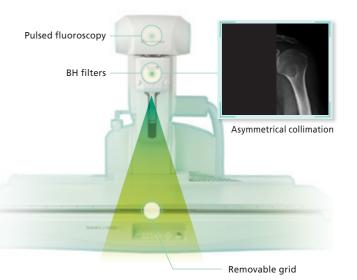




■ To efficiently minimize exposure levels during examinations, the system features ultimate grid-controlled pulsed fluoroscopy with ideal wave trail elimination, as well as intelligent BH(Beam-Hardening) filter function that automatically select optimal one from three different filters according to the type of examination and eliminate unnecessary x-rays that do not contribute to the actual images.



- Collimation can also be applied asymmetrically on the left and right (optional).
   This can eliminate the exposure to the unnecessary field outside of ROI.
- A virtual collimation function is also included that reduces unnecessary exposure by using the most recent fluoroscopic image to set collimation for radiography.



Removable Grid will be a further advantage in dose reduction, and will be important especially when the radiation exposure is a particular concern, such as in pediatrics, urology and gynecology.



# Productive and Comfortable Workflow — BEST Operability





The high-speed dual system can simultaneously process images, register patient information, or perform other tasks quickly in real time, without interfering with examinations.

Because the X-ray generator, R/F table and digital processor are all linked, the number of operating steps during examinations is significantly reduced, which increases examination efficiency and room's productivity a lot.

All controls necessary for a given examination are gathered at the central touchscreen. Consequently, each examination can be performed more efficiently.

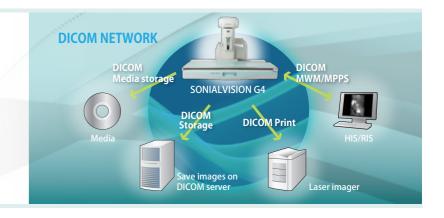


Several types of monitor carts and local control consoles are available for your selection to accommodate various examination room layouts and clinical applications.



Excellent Network compatibility ensures smooth patient registration, image printing, and storage.

(optiona



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