

# SONIALVISION G4 edition

Multi-purpose Digital R/F System



Selecting the best  
for every examination environment

*BEST in CLASS*

Multi-purpose Digital R/F System

**SONIALVISION G4**  edition

With the SONIALVISION G4, Shimadzu offers a multi-functional universal system  
—one that is useful in a variety of examinations and examination environments,  
providing optimal image quality, ease of operation, and accommodating patient's comfort.

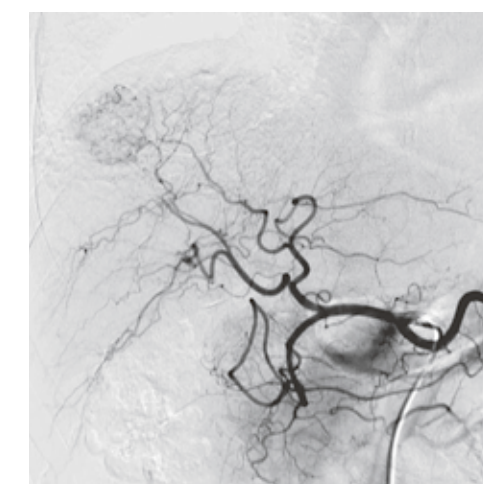


SID 1.8 m extension type 

# Consistently High Image Quality

## — BEST Imaging

Best-in-class, high-resolution FPD and our latest digital imaging technologies result in optimal image quality.



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

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

## Advanced digital image processing

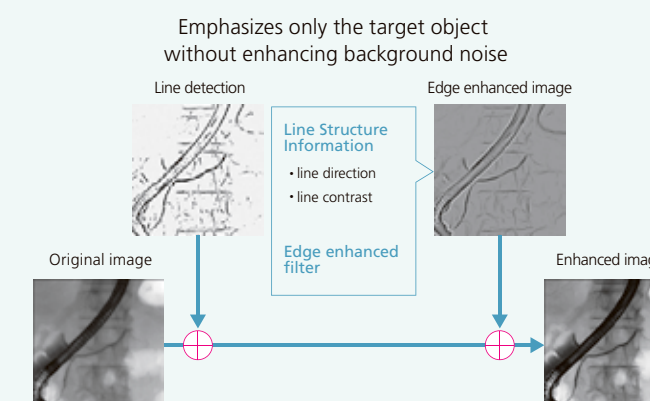
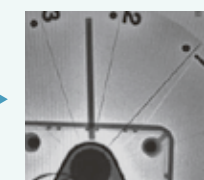
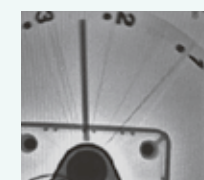
### SCORE PRO Advance

SONIALVISION G4 provides sharp and clear images in various examinations. Especially with fluoroscopy, the background noise component is reduced in real time and the target object is emphasized efficiently. SCORE PRO Advance offers lower exposure levels and optimal image quality.



### ■ Adoption of the latest motion tracking noise reduction

By performing block matching between frames, and recursive processing between the most matched blocks, noise is efficiently reduced without any lag.



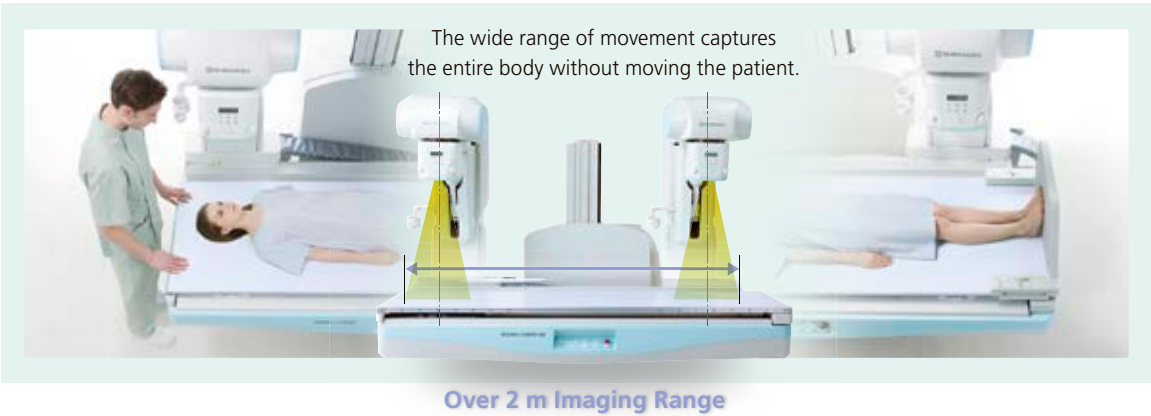
# Versatile Design for Various Examinations

## — BEST Performance

The system has been thoughtfully designed to consider all users in a diversity of situations, making it ideal for a wide variety of examinations.

### Orthopedic and General Radiography Studies

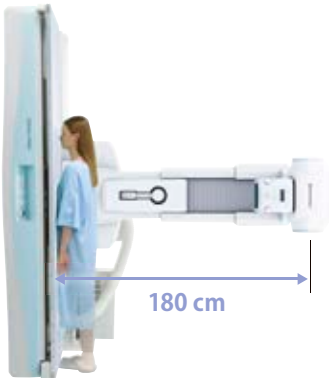
The large field-of-view provides the flexibility to accommodate a wide variety of radiographic examinations.



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



90 deg. X-ray tube rotation allows studies to be performed on stretcher patients.



Chest radiography is easily performed by extending the SID. [OPTION](#)

## Streamlined Digital Workflow

An improved workflow is achieved when combined with a wireless FPD (17×14 inches). Images can be viewed on the SONIALVISION G4 monitors and managed together with other data. [OPTION](#)

## Enhanced System Utilization with a 2<sup>nd</sup> Tube

By combining a second overhead X-ray tube, it is easy to perform chest, lateral and out of bucky radiography.



- The DR system of SONIALVISION G4 enables the viewing of both R/F and RAD images\* [OPTION](#)
- Easy centralized management of R/F and RAD images\* [OPTION](#)

\*Availability of this function may vary depending on countries.

## Urological Examination

Urological imaging with a large field of view while being dose conscious, together with a wealth of additional functions, are provided in support urological examination.

■ 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. OPTION

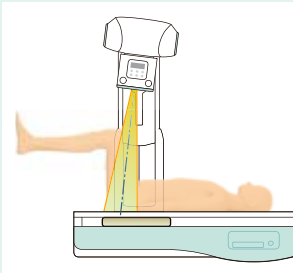
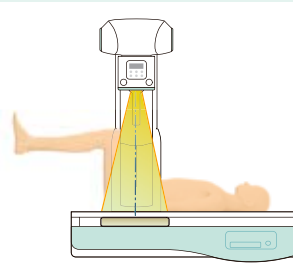


■ Various dedicated options for Urology, such as Leg supports, Drain Bag, and an Endoscopy unit support arm are available.

■ The table can be tilted without changing the observation position.



■ A specialized collimation function is used for effective dose reduction.



## Endoscopy and Angiography

Supports endoscopy and angiography with a wide clean design and easy approach.

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



■ A wide, fully flat table with a high weight capacity ensures patient safety even during endoscopy and angiography procedures.

■ The flat gutter free table top design provides easy patient transfer and is easy to clean.

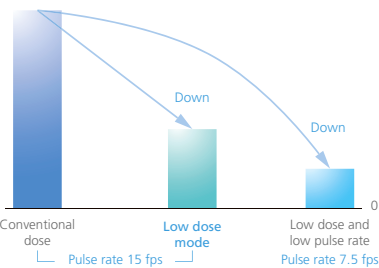


■ When images are flipped vertically, the imaging chain movement direction can be reversed accordingly, enabling smooth examination procedures with intuitive system control.

Low exposure Level and optimal image quality

### SCORE PRO Advance

Reduces background noise components in real time to emphasize only the target area. SCORE PRO Advance offers complete exposure dose reduction and improved fluoroscopic image quality in cholangiopancreatography.



## Gastrointestinal Series and Swallowing Examination (Videofluoroscopy)

17 × 17 inches large field of view and high image quality is perfect for everything from routine checkups to specialized examinations and observations.



- Wheelchair patients can be examined simply by extending the SID.
- Fluoroscopic images can be saved in DICOM format.

- Max 15 cm/sec. quick movement of the imaging chain together with soft start/stop ensures stress-free, efficient examinations with higher productivity



- An oblique projection function prevents overlapping organs in examinations.

## 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 and frail patients can be loaded or dismounted 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.



Even elderly patients can be loaded or dismounted easily .



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

## — *Low Dose Control*

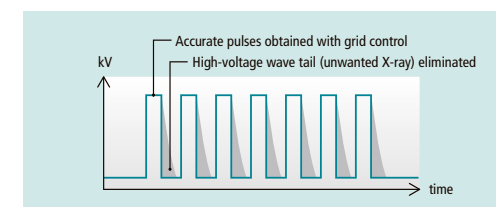
Equipped with various functions to effectively reduce radiation exposure levels, the system provides peace of mind for both patients and attending personnel during examinations.



Low Dose Control **G4**

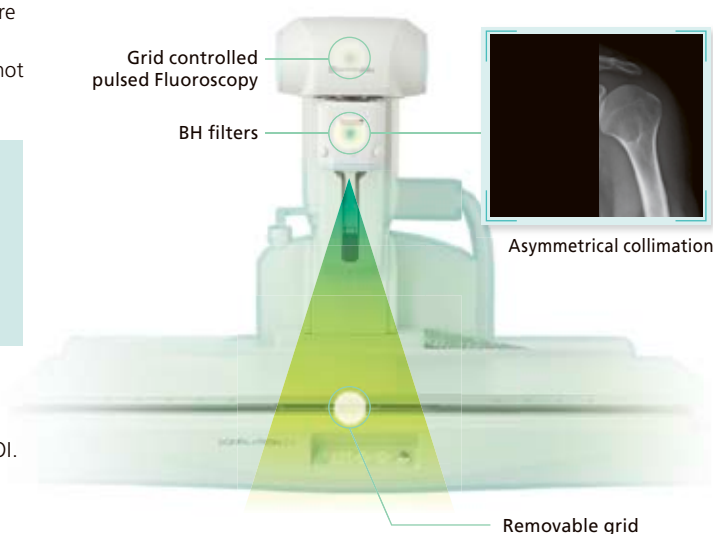


- To efficiently minimize exposure levels during examinations, the system features grid controlled pulsed fluoroscopy with wave tail elimination. In addition, intelligent BH (Beam-Hardening) filters are automatically selected according to the type of examination, reducing unnecessary X-ray that does not contribute to the actual images.



- Asymmetrical collimation, on either the left or right can be applied, eliminating exposure outside the ROI.

- Virtual collimation reduces unnecessary exposure by using the most recent fluoroscopic image to set the collimation for radiography.



The removable grid provides a further advantage in dose reduction and is especially important when radiation exposure is of particular concern, such as in pediatrics, urology and gynecology.



# Productive and Comfortable Workflow

## — BEST Operability

BEST Operability **G4**

This new generation system design provides even more convenient operability to help conduct stress-free examinations.

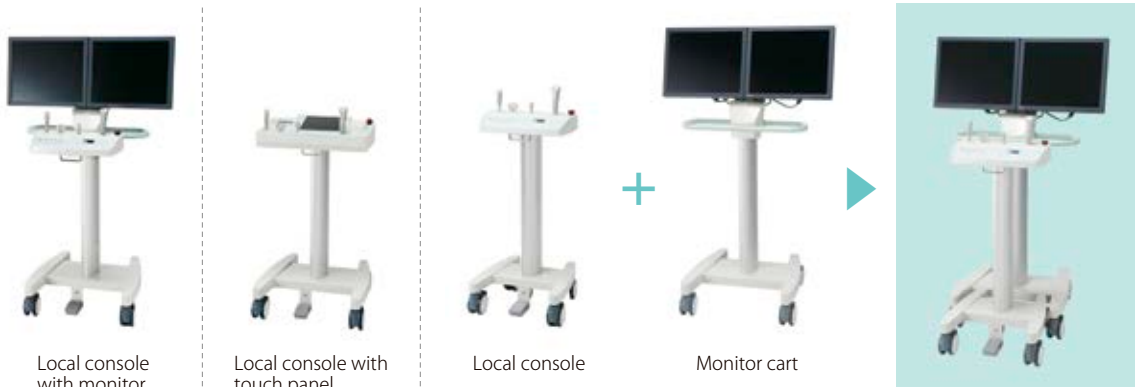


All controls necessary for a given examination are gathered at the central touchscreen. Consequently, each examination can be performed more efficiently.



Controls are customizable for each examination type and facility.

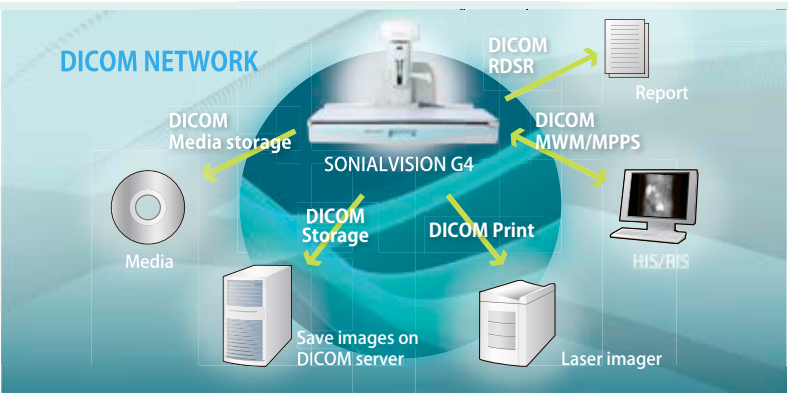
Several types of monitor carts and local control consoles are available for your selection to accommodate various examination room layouts and clinical applications. OPTION



The high-speed dual processing 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 are significantly reduced, increasing examination efficiency and productivity.

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



Founded in 1875, Shimadzu Corporation, a leader in the development of advanced technologies, has a distinguished history of innovation built on the foundation of contributing to society through science and technology. We maintain a global network of sales, service, technical support and applications centers on six continents, and have established long-term relationships with a host of highly trained distributors located in over 100 countries. For information about Shimadzu, and to contact your local office, please visit our website at [www.shimadzu.com](http://www.shimadzu.com)



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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.

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