

Premium Option

SLOT Advance

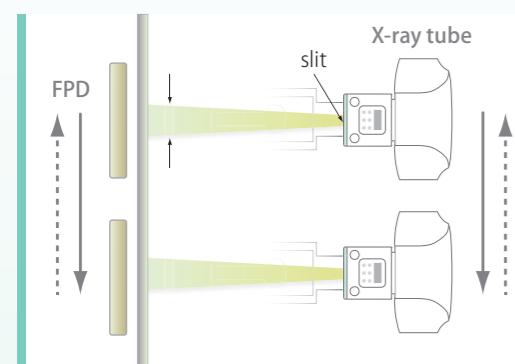
Ideal Technology for Long View Images with Maximum Accuracy



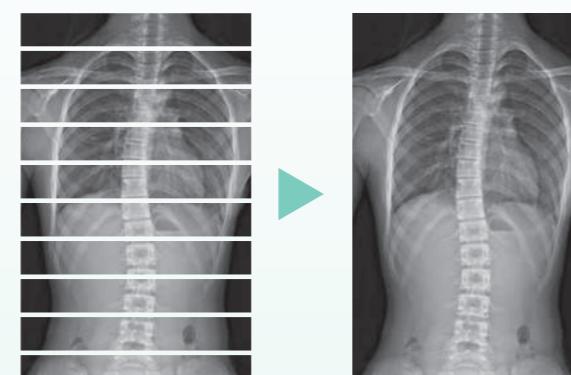
Cutting Edge Application Option
for
SONIALVISION G4

SLOT Advance *

SLOT Advance provides images with long fields of view, such as for full spine or full leg images, just by a very simple workflow, while also offering high accuracy images with minimal X-ray dose.



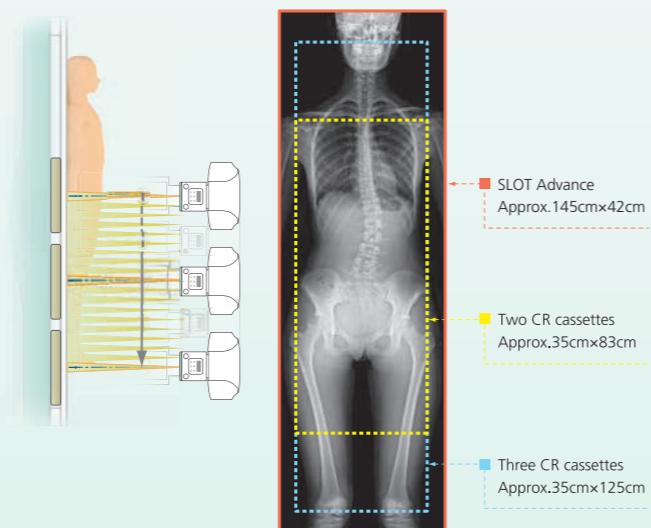
SLOT Advance acquires a series of only accurate images of a few centimeters central slit successively as the imaging chain moves along the patient.



The system automatically integrates all slot images into one complete long image rapidly.

Providing super high accuracy measurements

SLOT Advance collimates the X-ray beam, so that it only exposes a narrow central slit field without distortion caused by oblique rays. These central slit images are captured using the SONIALVISION's super-high resolution Flat Panel Detector (FPD) by moving it in parallel with the X-ray tube. These successive images are then automatically reconstructed to create one long image in SONIALVISION G4's digital imaging unit (DR-300). Therefore, this enables very high accuracy measurements without distortion, even with a very simple workflow.



Extra-wide Imaging Range

The combination of SONIALVISION G4's extra-long imaging chain slide coverage and 17" large FPD realizes even wider imaging coverage (Max. 145cm x 42cm) than that of CR's image stitching.

Workflow Comparison with Conventional CR

Time Required to Perform Both Standing and Horizontal Position Examinations

SLOT Advance with SONIALVISION

Set the imaging area

Start acquisition

Connect the images automatically

Confirm the long view image

Tilt the table to the horizontal position

Set the imaging area

Start acquisition

Connect the images automatically

Confirm the long view image

Only 3 min.

CR Long-View Imaging in a General Radiography Room

Set three IPs (imaging plates) on a long cassette

Position that long cassette

Adjust the radiography field and positioning

Perform three radiography shots

Remove the three IPs from the cassette tray

Reconstruct to connect the images

Confirm the long view image

CR Long-View Imaging

20 min

Move the patient from the Bucky stand to the table

Set three IPs on a long cassette

Position that long cassette

Adjust the radiography field and positioning

Perform three radiography shots

Remove the three IPs from the cassette tray

More than 20 min.

Significant reduction of examination time

Simply set the starting and ending positions, then start the exposure. That's all it takes to obtain proper long view images using our Slot Radiography.

All the post-processing required to connect, adjust, and display the images on the monitor is done automatically immediately after exposure.

SLOT Advance by SONIALVISION system eliminates the time-consuming steps of setting up the cassette and making adjustments, not to mention moving the patient between standing and horizontal positions, which are all required by conventional CR long-length imaging.

High image quality with minimal dose

Due to the SONIALVISION G4's super-high resolution FPD and Shimadzu's advanced imaging technology that improves contrast resolution, the SLOT Advance simultaneously achieves both high image quality as well as low dose to the patients.

Also, the SLOT Advance provides homogeneously excellent image quality to the whole range, from the thick region (hip etc.) to the thin body part.



Real Time Slot Display

The SLOT Advance is able to display its preview image on the acquisition monitor at real time during its slot acquisition.

The reconstructed image follows soon after on the reference monitor.

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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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- Items and components in the photos may include optional items. Please confirm with your sales representative for details.
- 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.