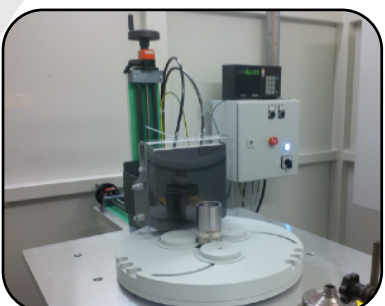
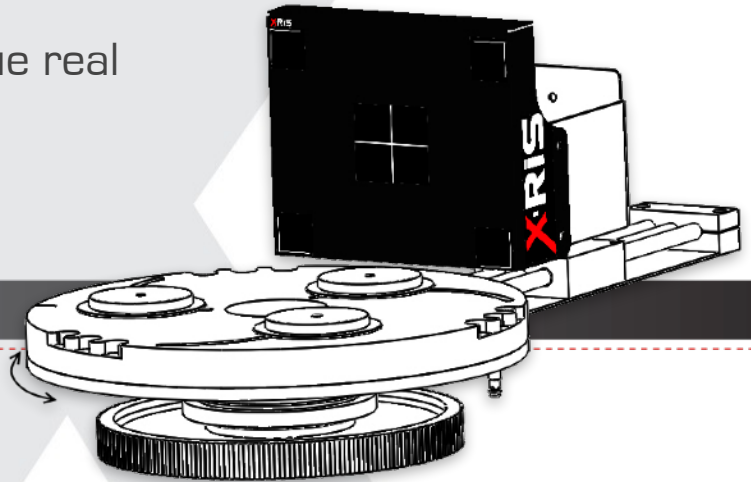


Upgrade **your existing cabinet** with true real time (**scopy**) DDA

APPLICATIONS

- ▶ Weld inspection (SAW, ERW, spot, seam, laser welds, ...)
- ▶ Al, Fe, Ti, alloys, plastic casting defects such as porosities, thermal cracks and inclusions ...
- ▶ Composite materials (wrinkles, material inclusions, wings, aileron, ...)
- ▶ Confirmation of mechanical or electrical components presence in objects
- ▶ Ammunitions inspection (detection of chemical liquids, defect detection in explosives or in the shell).



KEY FEATURES

True Real Time

- ▶ **Combine digital radiography and radioscopy**
- ▶ Quick real time localisation of defect zones
- ▶ Fast confirmation of component presence in an object
- ▶ Then, possibility to make high quality pictures in radiography mode in case of doubts.

Easy and cost effective cabinet upgrade

- ▶ Keep your existing shielded cabinet and CP X-ray generator (up to 450 kV)
- ▶ **DeReO RT is autonomous. No synchronization with your X-ray generator is needed.**
- ▶ Manual or programmable routine inspection. Customization is possible.
- ▶ Replace your films, your image intensifier and even your conventional DDA

Radiography DDA => RT DDA

- ▶ Enjoy the true real time advantages

Image intensifier => RT-DDA

- ▶ Enjoy fantastic image quality in comparison with the old image intensifier technology

Film => digital radiology

- ▶ No more consumables (films or chemicals) or dark room needed
- ▶ Easy digital archiving & reporting
- ▶ Direct image on the computer (no manual process)
- ▶ Image post-processing
- ▶ **DICOM & JPG format**
- ▶ Real-time X-ray videos for perfect and **rapid image adjustment**. No more concerns about the kV and mA calculation thanks to real-time video

Unmatched image quality

- ▶ Compliance with ISO 17636-2
- ▶ Fantastic sensitivity, excellent signal to noise ratio (SNR) and unbeatable contrast resolution better than 1% [EN 462-1]
- ▶ **Video to radiography mode switch during the X-ray shot with automatic and fast averaging**

Sizes and options

- ▶ 25 x 30 cm or 25 x 20 cm or 15 x 15 cm
- ▶ Adjustable frame rate, up to 10 fps
- ▶ Resolution down to 127 µm

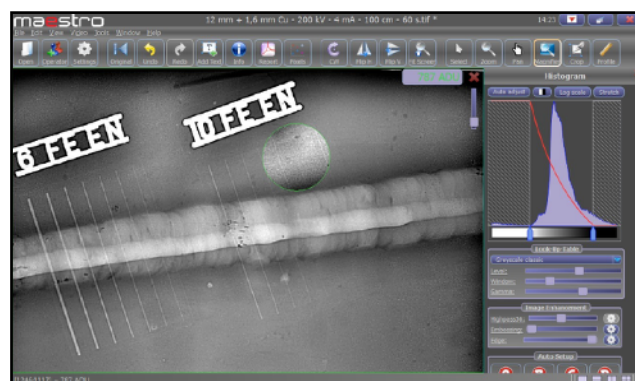
User-friendly

- ▶ All key tools available within one mouse click
- ▶ Magnifier and real time filters
- ▶ Contact us for a demonstration. After a set-up of 15 minutes and a training of 2 hours, you will be able to make great pictures.

	DeReO RT 1515	DeReO RT 2020 (HE)	DeReO RT 2520	DeReO RT 2530 (HE)
Technology	True Real Time	True Real Time	True Real Time	True Real Time
Detector type	Amorphous silicon	Amorphous silicon	Amorphous silicon	Amorphous silicon
Conversation screen	Csl, DRZ Plus	Csl, DRZ Plus	Csl, DRZ Plus	DRZ Plus
Resolution	127 μ m	200 μ m	127 μ m	139 μ m
Dynamic range	16 bits	14 bits [or 16 bits]	16 bits	16 bits
Frame rate	25 fps	15 fps 1x1 [14 bits] 30 fps 2x2 [14 bits] 25 fps 1x1 [16 bits]	10 fps	9 fps
Active Area	146 x 146 mm	205 x 205 mm	195 x 244 mm	249 x 302 mm
Total Dimensions	183 x 175 x 86 mm	295 x 360 x 22 mm	266 x 224 x 67 mm	420 x 372 x 26 mm
kV range	Up to 225 kV	No limitation But additional shielding needed	Up to 225 kV	No limitation But additional shielding needed

MAESTRO NDT SOFTWARE

- ▶ True Real Time X-ray capture (photo and video modes)
- ▶ NDT compliant [compliant with ISO 17636, ASTM-E 2698, E2737, E2597]
- ▶ Very intuitive software interface
- ▶ Access to all key tools within 1 mouse click
- ▶ GemX control with kV and mA adjustment in real time
- ▶ DICONDE
- ▶ Zoom in, zoom out and screen adjustment
- ▶ Picture rotation
- ▶ Horizontal / vertical flip
- ▶ Cropping
- ▶ Measurement / profile
- ▶ Annotations
- ▶ Black and white reversal
- ▶ Access to the LUT (look-up-table)
- ▶ Real time filter magnifier
- ▶ Real time edge enhancement filter
- ▶ Real time embossing filter
- ▶ Real time contrast filter
- ▶ Real time defect filter
- ▶ Real time noise reduction filter
- ▶ Range of specific NDT filters and tools (image validation, grey level averaging, SNR, CNR, ...)
- ▶ Selectable predefined image display parameters for routine work
- ▶ Screen can be split and synchronized with ASTM defects reference display



- ▶ Original picture data are saved and always follow the modified image
- ▶ ASTM defects display
- ▶ Bad pixels map
- ▶ Automatic inspection modules
- ▶ Any language available upon request
- ▶ Possibility to integrate customer's existing X-ray generator and manipulators in order to control the complete system from one single interface.
- ▶ X-RIS is open to discuss the development of customized software tools [such as the control of your X-ray generator via Maestro, ...]

DeReO RT SUGGESTED WORKSTATION

- ▶ Type: PC workstation
- ▶ Screen size : 21" or better
- ▶ Processor: Intel I5 or better
- ▶ RAM : 8Go DDR 3
- ▶ Windows 7 (64 bit) or Windows 8 (64 bit) or better
- ▶ Keyboard : AZERTY or QWERTY (US)
- ▶ Gigabit ethernet port dedicated for DeReO RT

DeReO RT OPTIONS

- ▶ Turn table
- ▶ Manipulator
- ▶ Robots

www.xris.eu