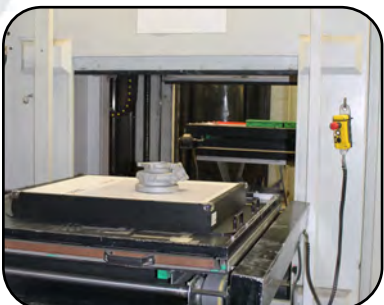
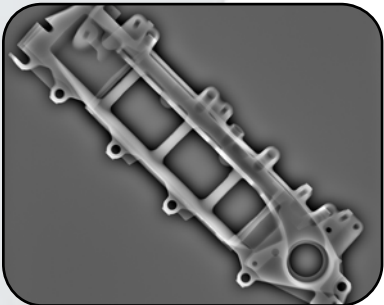


X-ray DR solution for film replacement in your **shielded cabinets**

APPLICATIONS

- ▶ Weldings on pipes and plates
- ▶ Al, Fe, Ti, alloys, plastic casting defects such as porosities, thermal cracks and inclusions ...
- ▶ Composite materials (wrinkles, material inclusions)
- ▶ Historical assets
- ▶ Forensic investigations



KEY FEATURES

Digital

- ▶ Direct image on the computer (no manual process)
- ▶ User-friendly thanks to very **intuitive** Maestro NDT software
- ▶ Post-processing
- ▶ TIFF & JPG format
- ▶ Easy archiving & reporting
- ▶ No more consumables (films and chemicals) and dark room needed
- ▶ Efficiency and profitability increase

Film -> digital radiology

- ▶ DeReO WA-F is the easiest tool to work with in order to switch from traditional X-ray films to digital radiology inspection.

Real-time

- ▶ 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 (1 frame per second)

Quick set-up

- ▶ Very easy set-up and use thanks to smart hard- and software features

Image quality

- ▶ 200 μ m resolution (compliance with ISO 17636-2)
 - Class A from 4 to 12 mm Fe
 - Class B for thickness higher than 12 mm Fe
- ▶ Excellent signal to noise ratio (SNR) and contrast resolution better than 1% (EN 462-1)
- ▶ 14 or 16 bit
- ▶ Different scintillator thickness available
- ▶ Automatic and fast averaging

Highest sensitivity

- ▶ Impressive penetration capability
- ▶ Optional extra : adjustable sensitivity

Large kV range

- ▶ Possibility to X-ray from light composite materials up to heavier elements, such as several centimeters of steel

Large area

- ▶ Large active surface for big objects

Flexibility

- ▶ Works with any other kind of constant potential generator or gamma source. Synchronisation is not needed. Delivery and installation is achieved very easily with existing generators at customer site.


Reinforced casing

- ▶ In order to prevent scratches and knocks on the flat panel, X-RIS designed a reinforced casing which also contains a mains power supply, tough connectors, as well as the necessary lead shielding in order to protect the electronic of the flat panel from the X-rays

DeReO WA-F FLAT PANEL

- ▶ Active area : 40 x 40 cm
- ▶ Resolution : 200 μ m
- ▶ Greyscale : 14 bit (16 bit as option)
- ▶ 2 adjustable sensitivity levels
- ▶ Real-time :
 - 1 frame per second
 - 4 frames per second (option)
- ▶ Gadox screen
- ▶ No kV limit (shielding need for kV > 160 kV)
- ▶ Reinforced casing with :
 - 3 mm lead on electronics for 200 kV generators
 - 6 mm lead on electronics for 250 kV generators
 - 9 mm lead on electronics for 320 kV generators
 - 12 mm lead on electronics for 450 kV generators and for gamma sources
- ▶ Powered from mains located inside the reinforced casing
- ▶ Total dimensions : L820 x H90 x 550 mm
- ▶ Weight : according to the shielding thickness

MAESTRO NDT SOFTWARE

- ▶ NDT compliant
 - ▶ Very intuitive software interface
 - ▶ Real time X-ray capture
 - ▶ GemX control with kV and mA adjustment in real time
 - ▶ Zoom in, zoom out and screen adjustment
 - ▶ Picture rotation
 - ▶ Horizontal / Vertical flip
 - ▶ Cropping
 - ▶ Access to the LUT (look-up-table)
 - ▶ Black and white reversal
 - ▶ Real time filter magnifier
 - ▶ Real time edge enhancement filter
 - ▶ Real time embossing filter
 - ▶ Range of specific NDT filters and tools (noise reduction, frequency filter, image validation, grey level averaging and SNR, ...)
 - ▶ Selectable predefined image display parameters for routine work
 - ▶ Measurement / profile
 - ▶ Annotations
 - ▶ Video mode
- 
- ▶ Original picture data are saved and always follow the modified image
 - ▶ Pixel map
 - ▶ Any language available upon request
 - ▶ X-RIS is open to discuss the development of customized software tools (such as the control of your X-ray generator via Maestro, ...)

DeReO WA-F WORK STATION

- ▶ Type: PC Tower
- ▶ Screen size : 21" or better
- ▶ Processor: Dual Core 64-bits (integrated graphics)
- ▶ RAM : 4Go DDR
- ▶ Windows 7 (64 bit) or Windows 8 (64 bit)
- ▶ Keyboard : AZERTY or QWERTY (US)

DeReO WA-F OPTIONAL EXTRAS

- ▶ GXC stationary generators from 160 to 320 kV
- ▶ Any other constant potential X-ray generator or Gamma sources (new or customer's existing generator)



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