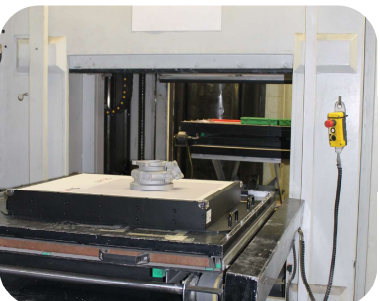
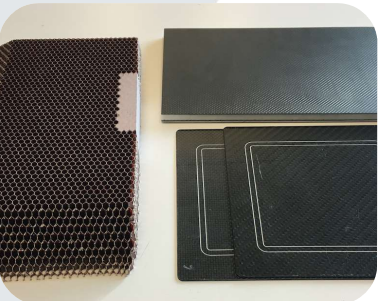


X-ray DDA solution for film replacement in your **shielded cabinet**

APPLICATIONS

- ▶ Weldings on pipes and plates
- ▶ Al, Fe, Ti, inconel and other alloys, plastic casting defects such as porosities, shrinkages and inclusions ...
- ▶ Honey combs structures, composite materials (wrinkles, inclusions, ...)
- ▶ Historical assets
- ▶ Forensic investigations



KEY FEATURES

Digital

- ▶ Direct digital image on the computer screen (no manual process)
- ▶ User-friendly thanks to very **intuitive Maestro NDT** software
- ▶ Post-processing with real time filters
- ▶ **DICONDE**, TIFF & JPG formats available
- ▶ Easy archiving & reporting
- ▶ Efficiency and profitability drastically increased

Film -> digital radiology

- ▶ **Dereo RAD** is the easiest tool to work with in order to switch from traditional X-ray films to digital radiology inspection

X-ray video

- ▶ X-ray video [1 fps scopy] for perfect and **rapid image adjustment** : No more headaches about the kV and mA calculation

Image quality

- ▶ **Dereo RAD 4040** [200 μm] complies with ISO 17636-2
 - Class A from 3 to 12 mm Fe
 - Class B for thickness higher than 12 mm

- ▶ **Dereo RAD 2530** [139 μm] complies with ISO 17636-2
 - Class A from 2 to 8 mm Fe
 - Class B for thickness higher than 8 mm

!!! Image quality goes even better with mini and micro focal spots !!!

- ▶ Excellent signal to noise ratio (SNR) and contrast resolution better than 1% [EN 462-1]
- ▶ 14 or 16 bit
- ▶ Automatic and fast averaging
- ▶ Different scintillator thickness available

Quick set-up

- ▶ Very easy set-up (plug & play) and use thanks to smart hard- and software features

Compatible with any high energy sources

- ▶ Electronics of **Dereo RAD** are very well shielded and protected from X-ray dose. Thanks to that, it works with any other kind of constant potential generator, gamma sources [Se, Ir, Co] as well as betatrons and linear accelerators. Synchronization 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 contains the DDA, a mains power supply, tough connectors, as well as the necessary lead shielding.

Dereo RAD DDA

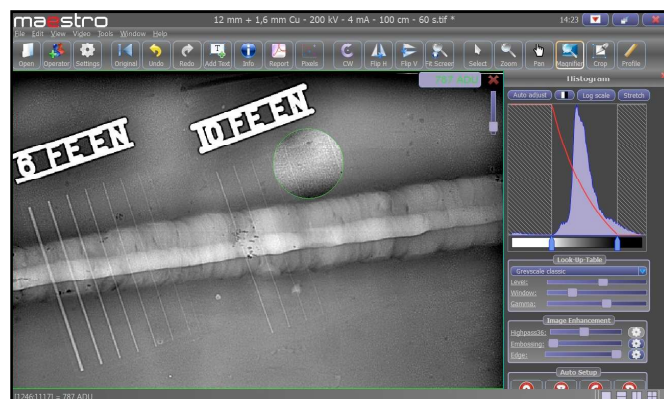


MODEL	TECHNOLOGY	ACTIVE AREA (cm)	PIXEL (µm)	GREY LEVEL (bit)	POWER
Dereo RAD 2530	@-Si	25 x 30	139	16	Universal mains power supply
Dereo RAD 4040	@-Si	40 x 40	200	14 or 16	Universal mains power supply

Unique : let us know your application and X-RIS will select the right scintillator for you

MAESTRO NDT SOFTWARE

- ▶ Software interfaces developed **by and with field users**
- ▶ Very **intuitive** software interfaces. All key tools of **Maestro** accessible with one mouse click, only.
- ▶ Zoom in / out, screen adjustment, rotation, horizontal and vertical flip, cropping, ...
- ▶ Access to the LUT (look-up-table)
- ▶ Black and white reversal
- ▶ Annotations
- ▶ **Real time** magnifier
- ▶ **Real time** filters (Defect, Contrast, Edge, Noise reduction, ...)
- ▶ Smart measurement tools
- ▶ NDT Tools for normative inspections
- ▶ Bad pixels map
- ▶ **DICONDE**
- ▶ Compliant with all major NDT standards (ISO 17636, ASTM-E 2698, E2736, E2737, E2597, Safran PR5250, Airbus AITM 6-7007 and Boeing BSS-7044)
- ▶ Control of many X-ray generator brands and models
- ▶ Any language available upon request
- ▶ X-RIS is open to discuss the development of new software tools



Dereo RAD 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 RAD OPTIONS

- ▶ (µ)**GXC** X-ray generators from 80 to 450 kV, linear accelerators, ...
- ▶ X-ray cabinets
- ▶ Collimators controlled from **Maestro**
- ▶ **Maestro** viewer
- ▶ Specific computer screens for normative inspections
- ▶ IQI accessories

www.xris.eu