

Portable **High Energy** X-ray DDA solutions for heavy duty inspections

(225 kV > 450 X-ray generators, Se, Ir, betatrons, linear accelerators, ...)

APPLICATIONS

X-ray of high density materials and large thickness :

- ▶ Castings
- ▶ Concrete
- ▶ Weldings
- ▶ Corrosion measurement
- ▶ Ammunitions, ...



KEY FEATURES

Portable	Battery powered Generate X-ray pictures anywhere : use the Dereo HE in a shielded cabinet and take it out at any time in order to work on the field
High Energy	Electronics are sensitive to X-ray. Dereo HE is compatible with all existing sources (X-ray, gamma, betatrons, linear accelerators, ...) and all energies thanks to the electronics which are deported on the side of the sensitive area and not on the back of it.
Robust	Tough handle, bumpers, military standard connectors, strong carrying case, ... will definitely grant a high level of robustness of your Dereo HE on the field.
Quick set-up	Very fast set-up and use thanks to smart hard- and software features
Digital	Immediate image after couple of seconds Very user-friendly Maestro software Post-processing DICONDE Image format for universal file exchange Easy archiving & reporting
Image quality	Unique : dynamic DDA Automatic and fast averaging Dereo HE 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 HE 2530 (139 μm) complies with ISO 17636-2 - Class A from 2 to 8 mm Fe - Class B for thickness higher than 8 mm Unique : different scintillators available according to your application
Highest sensitivity	Excellent signal to noise ratio (SNR > 500) thanks to smart calibration process and contrast resolution better than 1% [EN 462-1] High penetration capability

Dereo HE FLAT PANELS

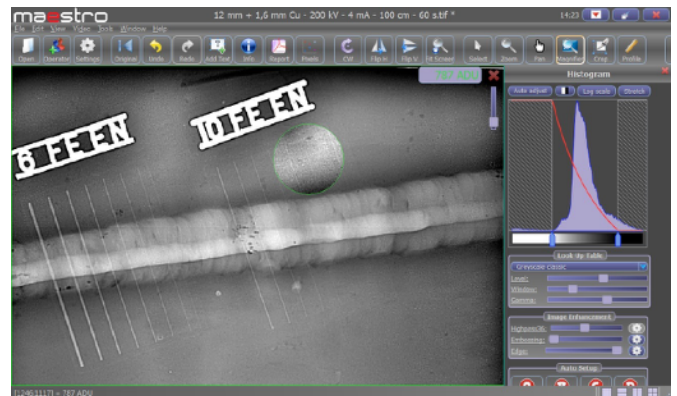


MODEL	TECHNOLOGY	ACTIVE AREA (cm)	PIXEL (µm)	GREY LEVEL (bit)	EXTERNAL DIMENSIONS (mm)	WEIGHT (kg)	POWER
Dereo HE 2530	@-Si	25 x 30	139	16	471 x 437 x 27	8.5	Battery or Mains
Dereo HE 4040	@-Si	40 x 40	200	14 or 16	605 x 586 x 25	12,3	Battery or Mains

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

Maestro Touch & Maestro SOFTWARES

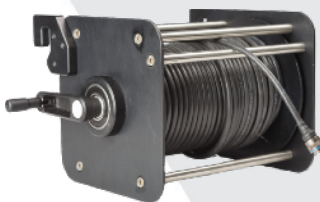
- ▶ Software interfaces developed **by and with field users**
- ▶ **Maestro Touch** for touchpads and **Maestro** for laptops
- ▶ Very **intuitive** software interfaces. Access to all key tools of **Maestro Touch** with your thumbs and with one click mouse on **Maestro**
- ▶ Zoom in / out, screen adjustment, 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 HE ACCESSORIES

X-RIS makes your job easy and supplies :

- ▶ Tripods
- ▶ 40m cable reel (designed by X-RIS for minimization)
- ▶ Carrying case
- ▶ Touchpads and laptops
- ▶ **GemX** portable battery powered X-ray generators



www.xris.eu