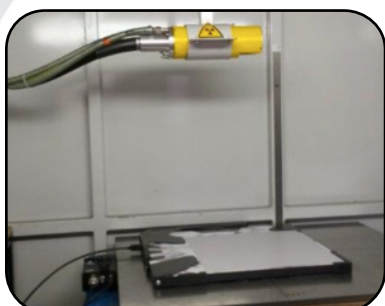


Portable large surface X-ray DR solutions for multi purpose inspections up to 15 MeV

APPLICATIONS

- ▶ Weldings on pipelines, pipes, plates in power plants, in petro chemical industries, on planes, rockets, ...
- ▶ Casting defects such as porosities, thermal cracking and inclusions in foundries, in plastic components, ...
- ▶ Composite materials (wrinkles, material inclusions) on plane wings, ...
- ▶ Historical assets (in Museums, laboratories, universities, ...)



KEY FEATURES

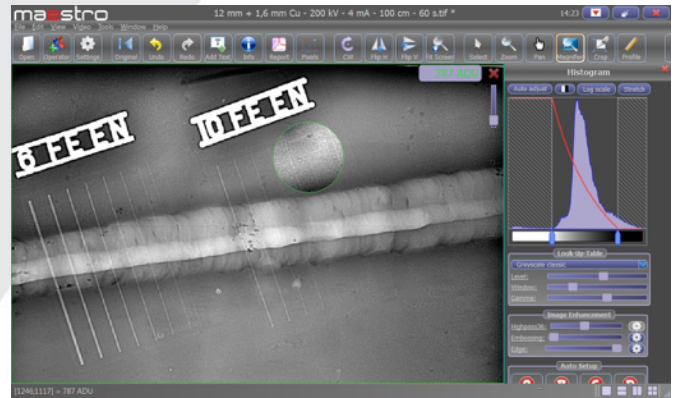
- Portable**
 - ▶ Generates X-ray pictures anywhere : use the DeReO WA-P in a shielded cabinet or take it out at any time to use the DeReO WA-P as a portable tool on site. Complete set in 1 ABS carrying case including DeReO WA-P, GemX, laptop, cables and accessories.
- Large area**
 - ▶ Active area of 25 x 30 cm or 40 x 40 cm
- Quick set-up**
 - ▶ Very easy set-up and use thanks to smart hard- and software features
- Digital**
 - ▶ Direct results
 - ▶ User-friendly and very intuitive Maestro software
 - ▶ Post-processing
 - ▶ TIFF & JPG format
 - ▶ Easy archiving & reporting
 - ▶ No more consumables (films and chemicals) and no dark room needed
- Image quality**
 - ▶ Automatic and fast averaging
 - ▶ DeReO WA-P 4040 (200 μm) complies with ISO 17636-2
 - Class A from 4 to 12 mm Fe
 - Class B for thickness higher than 12 mm Fe
 - ▶ DeReO WA-P 2530 (139 μm) complies with ISO 17636-2
 - Class A from 2 to 8 mm Fe
 - Class B for thickness higher than 8 mm Fe
- Highest sensitivity**
 - ▶ Excellent signal to noise ratio (SNR) and contrast resolution better than 1% (EN 462-1)
 - ▶ Impressive penetration capability
 - ▶ Option : adjustable sensitivity for Gamma sources
- Large kV range**
 - ▶ Possibility to X-ray from light composite materials up to very heavy objects. Work with our DeReO WA-P up to 15 MeV !
- Thin**
 - ▶ Possibility to slide the DeReO WA-P between 2 pipes, ...
- Real-time**
 - ▶ Real-time X-ray videos for perfect and rapid image adjustment. No more concern about the kV and mA selection thanks to real-time video (1 frame per second)
- Flexibility**
 - ▶ Works with GemX X-ray generators and with any other kind of constant potential generator or gamma source. Synchronisation is not needed.

DeReO WA-P FLAT PANELS

MODEL	Technology	ACTIVE AREA	PIXEL SIZE	GREY LEVEL	SIZE (mm)	WEIGHT (kg)	Shielding needed
DeReO WA-P 2530	Amorphous Silicon / Gadox	25 x 30 cm	139 µm	16 bit	L420 x H372 x W30	7	> 225 kV
DeReO WA-P 4040	Amorphous Silicon / Gadox	40 x 40 cm	200 µm	14 bit (option : 16 bit)	L610 x H600 x W30	11	> 160 kV

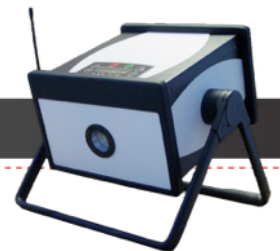
MAESTRO SOFTWARE

- ▶ Very intuitive software interface
- ▶ Access to all key tools within 1 mouse click
- ▶ Real time X-ray capture (VIDEO)
- ▶ GemX, YXPO and Eresco generators 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
- ▶ Real time high pass filter
- ▶ Range of specific NDT filters and tools (noise reduction, frequency filter, ...)
- ▶ Measurement / profile
- ▶ Annotations
- ▶ Original picture data are saved and always follow the modified image
- ▶ Pixel map
- ▶ Compliant with all major NDT standards (ISO 17636, ASTM-E 2698, E2736, E2737, E2597)
- ▶ Any language available upon request
- ▶ X-RIS is open to discuss the development of new software tools



DeReO WA-P WORK STATION MIN. REQUIREMENTS

- ▶ Type: laptop
- ▶ Screen size : high resolution 17" screen
- ▶ Processor: Dual Core 64-bits (integrated graphics)
- ▶ 3Go DDR and 500GB HDD memory
- ▶ Windows 7 (64 bit) or Windows 8 (64 bit)



DeReO WA-P OPTIONS

- ▶ Wireless modules
 - ▶ Battery power
 - ▶ Control of GemX via Maestros software
 - ▶ Portable CP generators
 - Wireless remote control
 - Battery (30 min if X-ray) or mains
 - Voltage range :
 - Current range :
 - Mini focal spot :
 - Window :
 - Insulation :
 - Penetration :
 - All-terrain 360° handle :
 - Accessories :
 - ▶ IP66 carrying case (85 x 71 x 44 cm)
 - ▶ Shielding for 200, 300, 450 kV sources
- | | |
|---|--|
| <p>GemX-160 (14kg)</p> <p>YES</p> <p>YES</p> <p>20 - 160 kV</p> <p>0.1 - 2.0 MA</p> <p>0.5 x 0.7 mm</p> <p>Be or Al</p> <p>Oil (2h of X-ray / day)</p> <p>Up to 25 mm of Fe</p> <p>YES</p> <p>Tripod, lead cap, laser pointer, ...</p> | <p>GemX-200 (20 kg)</p> <p>YES</p> <p>YES</p> <p>20 - 200 kV</p> <p>0.1 - 2.0 MA</p> <p>0.5 x 0.7 mm</p> <p>Al</p> <p>Oil (3h of X-ray / day)</p> <p>Up to 35 mm of Fe</p> <p>YES</p> <p>Tripod, lead cap, laser pointer, ...</p> |
|---|--|

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