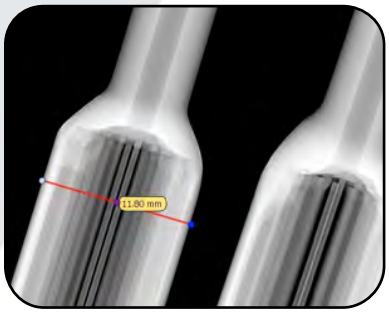
DeReO HR

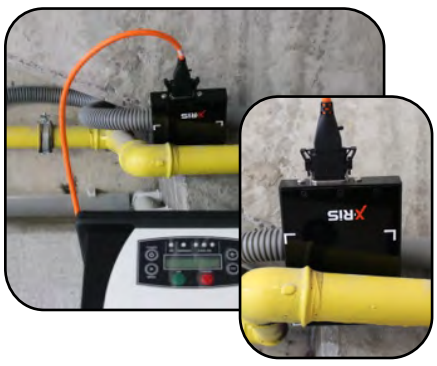
Portable battery-powered DR for high resolution NDT inspections

APPLICATIONS

High resolution (48 or 96 µm) X-ray pictures anywhere, at anytime :

- Aluminum, Titanium, ... thinnest plates and pipes
- Conglomerates, delamination, wrinkles, ... in composite materials.
- Honeycombs
- Electron weldings
- Porosities in resines, plastic castings, ...
- Gluing defects
- Comply with highest NDT standards





KEY FEATURES

Digital	▸ No more films, chemicals & dark room needed ▸ Easy archiving & reporting (TIFF & JPG formats) ▸ Image processing for quicker and efficient defect analysis
Image quality	▸ 48 µm or 96 µm pixel resolution => compliance with ISO 17636-2 class B from 1.5 up to 12 mm Fe ▸ 14 bit ▸ Fast and automatic image averaging for high signal to noise ratio (SNR)
Easy and quick set-up	▸ Split unit (bi-bloc) detectors in order to minimize the detector head for difficult access X-ray jobs. ▸ Sensitive area located very close to 2 edges of the detector casing (3.5 mm, only) ▸ Ready to work within 2 minutes. ▸ Universal GUC-HR for all DeReO HR detector heads (possibility to use the same GUC-HR with a 48 µm and 96 µm detector head
Very portable	▸ Very light detector heads ▸ 1.5 kg GUC-HR comes with batteries for 8 hours of work on site ▸ No power cables thanks to the battery power ▸ Possibility to fix the DeReO HR on standard camera tripod ▸ Standard ethernet communication cable ▸ Wireless communication with GemX generators (option)
Robust	▸ IP65 ▸ Tough connectors and hardware packaging for field use
Digital is now easy and intuitive	▸ Video mode : real time kV and mA adjustment for optimized image quality ▸ Photo mode : automatic averaging for high SNR ▸ Real time filters (magnifier, edge enhancement, embossing, ...) ▸ All key image processing tools accessible through a one mouse click
X-ray source compatibility	▸ DeReO HR works with GemX-160 and with other X-ray constant potential source.

DeReO HR FLAT PANEL

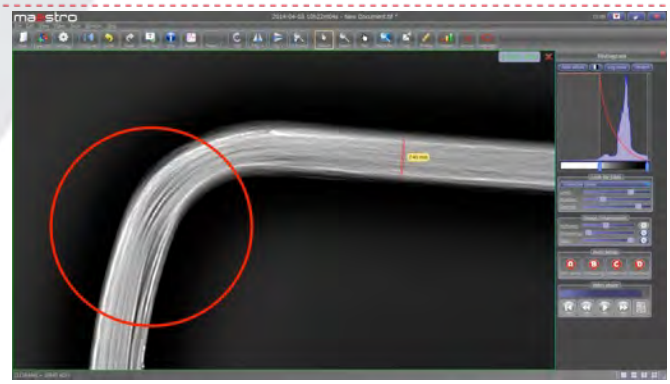
- Split unit
- 1,5 kg universal GUC-HR (battery and communication module) for all HR detector heads with 8h battery lifetime
- CMOS detector heads
- Different GadOx scintillators thickness available (60, 105, 140, 208 µm, ...)
- Operating temperatures : 0° to 50°C

MODEL	ACTIVE AREA	PIXEL SIZE	GREY LEVEL	# PLATES	SIZE (mm)	WEIGHT (kg)
0510-048-XXX*	05 x 10 cm	48 µm	14 bit	4	127,5 x 80 x 25,5	0,610
0510-096-XXX*	05 x 10 cm	96 µm	14 bit	1	143,5 x 66,5 x 25,5	0,550
1010-096-XXX*	10 x 10 cm	96 µm	14 bit	2	143,5 x 107 x 25,5	0,900
...						

* XXX refers to thickness of the scintillator which has an influence on the image quality and the sensitivity of the detector. According to your application, X-RIS will guide you for the selection of the right scintillator.

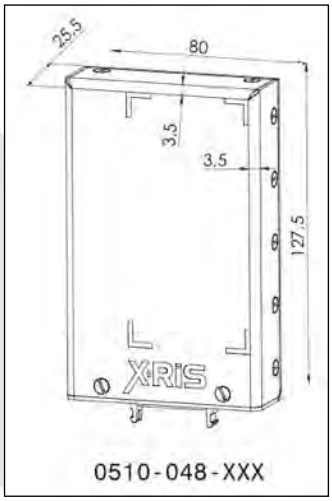
MAESTRO NDT

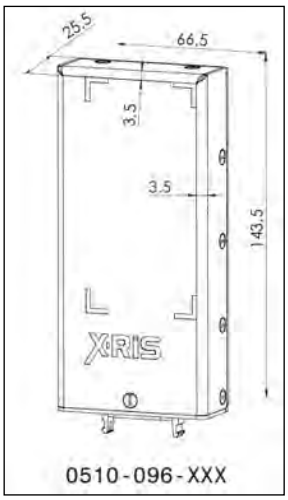
- NDT compliant
- Very intuitive
- Real time X-ray capture
- GemX control with kV and mA adjustment in real time
- Zoom in, zoom out and screen adjustment
- Picture rotation
- Horizontal / Vertical flip
- Cropping
- Access to the LUT (look-up-table)
- Black and white reversal
- Real time filter magnifier
- Real time edge enhancement filter
- Embossing 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
- Any language available upon request
- X-RIS is open to discuss the development of new software tools

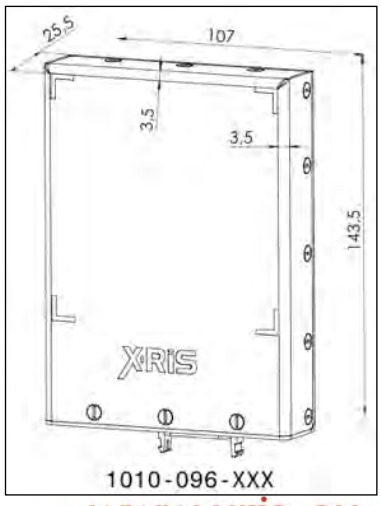


DeReO HR WORKSTATION

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







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