Dereo HE

Dereo HE 1723

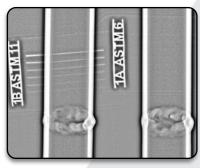
XRIS

Portable High Energy X-ray DDA for heavy duty inspections

APPLICATIONS

X-ray of high density materials and large thickness :

- Weldings
- Profile Radiography
- , CUI (Corrosion Under Insulation)
- Castings
- Ammunitions
- Ballistic plates, ...



KEY FEATURES

Portable	Battery powered and wireless module. 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.
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. IP67 certified.
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	Automatic and fast averaging. Pixel size from 200 down to 75 μm!
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 DDA SPECIFICATION



MODEL	ACTIVE AREA (cm)	PIXEL SIZE (μm)	GREY LEVEL (bit)	EXTERNAL DIMENSIONS (mm) without bumpers	WEIGHT (kg) battery included	WIRELESS
Dereo HE 1723	17 x 23	75	16	208 x 256 x 30	2.7	Yes
Dereo HE 2532	25 x 32	124	16	322 x 355 x 19	3.8	Yes
Dereo HE 3643	36 x 43	140	16	400 x 470 x 19	5.9	Yes
Dereo HE 4040	40 x 40	200	14 or 16	605 x 586 x 25	12.3	Yes

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

Maestro SOFTWARE

- 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
- ACUITY Filter
- Real time magnifier
- Real time filters (Acuity, 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
- Wall thickness measurement
- 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 :

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





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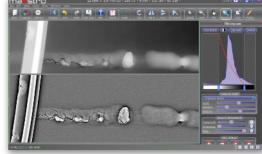
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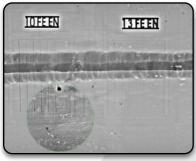
Ultra Portable X-ray DDA with embedded wireless module and battery

Dereo UP



APPLICATIONS

- Portable digital system for indoor and outdoor x-ray jobs
- Quality control of large structures in aerospace, aeronautic, shipyards, on pipes, power lines, buildings, railway, windmills, ammunitions, ...)
- Periodic maintenance control
- Weldings, castings, corrosion under insulation, composite materials, ...
- Historical assets (in Museums, laboratories, universities, ...)



KEY FEATURES

	/	
	Ultra portable	Battery and wireless module (embedded into the panel) ! Generate X-ray pictures anywhere : use the Dereo UP in a shielded cabinet or take it out at any time to use the Dereo UP as an extremely portable tool on site. Ultra light DDA : Down to 2.8 kg.
ב ר	Robust	Tough handle, bumpers, military standard and magnetic connectors, strong carrying case, will definitely grant a high level of robustness of your Dereo UP on the field.
- (Quick set-up	Very fast set-up and easy use thanks to smart hard- and software features.
	Digital	Dynamic DDA. Immediate image after couple of seconds. Very user-friendly Maestro software. Post-processing. DICONDE format for universal file exchange. Easy archiving & reporting.
	Image quality	 Unique : With GemX X-ray generators, change kV and mA during X-ray shot and adjust the image. « You just can't fail your x-ray shot ! » Automatic averaging. Dereo UP (100 μm) complies with ISO 17636-2 : Class B for thickness higher than 4 mm. Class A for thickness higher than 1 mm.
1	Highest sensitivity	Impressive signal to noise ratio (SNR > 500 !) thanks to smart calibration process and fantastic contrast resolution better than 1% (EN 462-1).
	Ultra thin	Possibility to slide the Dereo UP between 2 objects. Removable bumpers in order to reduce the thickness if necessary. Thickness of 17mm, only!

Dereo UP DDA SPECIFICATIONS



MODEL	TECHNOLOGY	ACTIVE AREA (cm)	PIXEL (μm)	GREY LEVEL (bit)	EXTERNAL DIMENSIONS (mm)	WEIGHT (kg) battery included
Dereo UP 2530	@-Si	25 x 30	100	16	412 x 321 x 17	2.8
Dereo UP 3643	@-Si	36 x 43	100	16	543 x 430 x <mark>17</mark>	4.0

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

Maestro SOFTWARE

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- Access to the LUT (look-up-table)
- Black and white reversal
- Annotations
- Real time magnifier
- Real time filters (ACUITY, Defect, Contrast, Edge, Noise reduction, ...)
- Smart measurement tools
- NDT Tools for normative inspections
- ACUITY Filter
- 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
- Wall thickness measurement
- 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 UP ACCESSORIES

X-RIS makes your job easy and supplies :

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





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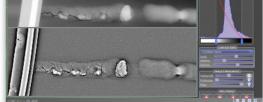


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Dereo HR

XRIS

Dereo HR 1506

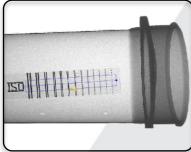
Portable battery-powered DDA for High Resolution NDT inspections

APPLICATIONS

Makes possible DR inspection in hard-to-reach areas :

- Small bore pipe and spool welds
- Small diameter Ti and Al pipe welds
- E-beam welds

- Civil and military aircraft NDE
- Restauration & conservations
- Welding training centers, universities, ...



KEY FEATURES

	Easy and quick set-up	Generates X-ray pictures anywhere : use the Dereo HR in a shielded cabinet or take it out at any time to use the Dereo HR as the most portable tool on site
		Ultra light DDA (Dereo HR : 1 kg, only !) Its compactness will definitely grant a high level of robustness of your Dereo UP on the field Battery powered
	Image quality	Dynamic DDA Immediate image after couple of seconds Very user-friendly Maestro software Post-processing DICONDE format for universal file exchange Easy archiving & reporting
	Unique	Optimized distance from the 3 sides, in order to reduce the dead area, to cover even more applications. With GemX X-ray generators, change kV and mA during X-ray shot and adjust the image. « You just can't fail your x-ray shot ! » Automatic averaging Dereo HR (49 μm) complies with ISO 17636-2 - Class B for thickness higher than 1.5 mm - Class A for thickness higher than 0.1 mm
Create 13 State		Impressive signal to noise ratio (SNR > 500 !) thanks to smart calibration process and fantastic contrast resolution better than 1% (EN 462-1)
AND AND T PLAN	2	

Power

Dereo HR DDA SPECIFICATIONS

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MODEL	TECHNOLOGY	ACTIVE AREA (cm)	PIXEL SIZE (μm)	GREY LEVEL (bit)	EXTERNAL DIMENSIONS (mm) without bumpers	WEIGHT (kg) battery included	FRAME RATE (fps)
Dereo HR 1506	CMOS	15 x 06	49	14	80 x 230 x 26.5	1	9

Maestro SOFTWARE

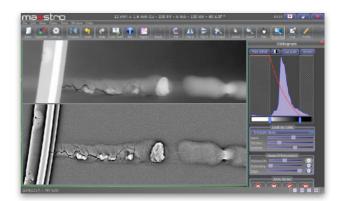
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Dereo HR ACCESSORIES

X-RIS makes your job easy and supplies :

- Carrying case and backpack
- Touchpads and laptops
- GemX portable battery powered X-ray generators







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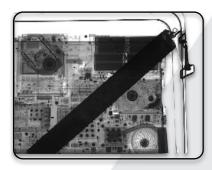
Dereo UP

Ultra Portable X-ray DDA with embedded wireless module and battery



APPLICATIONS

- Special Forces
- EOD & IED
- VIP security
- Customs & border control
- Counter-Surveillance
- Forensic









- ► Inspections of parcels, cars (door, trunk, tires, ...), pieces of luggage, walls, ...
- ➤ X-ray anything at anytime in extreme environments and situations ...

KEY FEATURES

Ultra Portable	Battery and wireless module integrated inside the panel ! No additional modules and cables. Touchpad (IP65) + Dereo UP 2530 + XRS-3 TOTAL WEIGHT < 6 kg .
Ultra thin	Thickness of 1.7 cm. Possibility to slide the Dereo UP between wall and suspicious objects,
Quick set-up	Very fast set-up and use thanks to smart hard- and software features.
Robust	Tough handle, bumpers, military standard and magnetic connectors, strong carrying case will definitely grant a high level of robustness of your Dereo UP on the situation.
Size range	25 x 30 cm or 36 x 43 cm.
Digital	 Dynamic DDA: multiple images averaging for image quality optimization. Immediate image. User-friendly, quick and very intuitive diagnosis thanks to Maestro Touch software optimized for tablets. Post-processing. TIFF & JPG format. Easy archiving & reporting.
Flexibility	Works with all Golden Engineering X-ray generators and other X-ray generator brands. Wired or wireless (up to 300 meters LOS). Laptop or tablet (or both).

Dereo UP SPECIFICATIONS



MODEL	TECHNOLOGY	ACTIVE AREA (cm)	PIXEL (μm)	GREY LEVEL (bit)	EXTERNAL DIMENSIONS (mm)	WEIGHT (kg) battery included
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- Smart measurement tools
- Bad pixels map
- 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 UP ACCESSORIES

X-RIS makes your job easy and supplies :

- Bipods and tripods
- 40m cable reel (designed by X-RIS for minimization)
- Carrying case and backpack
- Touchpad (IP65, MIL-STD810G, 10,1" 16 : 10 sunlight readable full HD screen)
- Laptops (regular and rugged)
- Golden Engineering portable battery powered X-ray generators X-RS3 : 270 kV, battery powered







www.xris.eu



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