

# Ultra Portable X-ray detector with embedded wireless module and battery



[Website](#)

# 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 detector : Down to 2.8 kg.

### 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.

### Highest sensitivity

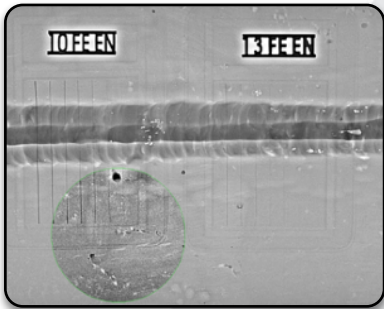
Impressive signal to noise ratio (SNR > 500 !) thanks to smart calibration process and fantastic contrast resolution better than 1% (EN 462-1).

### 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 SPECIFICATIONS

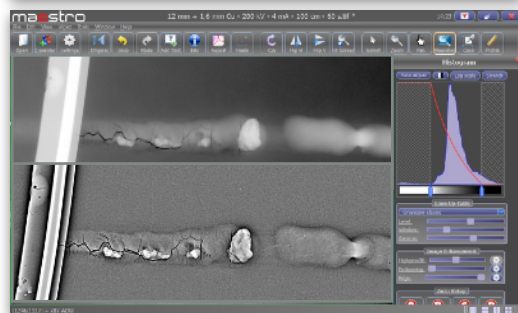


| MODEL                | ACTIVE AREA (cm) | PIXEL SIZE (μm) | GREY LEVEL (bit) | EXTERNAL DIMENSIONS (mm) | WEIGHT (kg) <i>battery included</i> | WIRELESS |
|----------------------|------------------|-----------------|------------------|--------------------------|-------------------------------------|----------|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

