

## Constant potential **battery-powered** X-ray generator for portable digital NDT applications



### KEY FEATURES

- ▶ Selectable kV : 20 (50) - 160 kV
- ▶ Selectable mA : 0.1 - 2 mA
- ▶ Constant potential
- ▶ Duty cycle at 20°C : 1' ON / 3' OFF
- ▶ Focal spot : 0.5 \* 0.7mm [EN 12543]
- ▶ Beam angle : 45° x 45°
- ▶ Oil insulated
- ▶ Powered from mains or from battery
- ▶ 360° handle
- ▶ Wired or wireless control via remote or via ethernet (**NEW**)
- ▶ Weight : 14 kg



### APPLICATIONS

#### Digital

Our X-ray engineers designed the GemX-160 with the right power, duty cycle, weight, size, battery life time for portable digital applications (digital technologies are very sensitive in comparison with NDT films)

#### Portable

Thanks to the light weight of the GemX-160, you can X-ray anything, anywhere at any time.

#### Low density objects

The beryllium window of the GemX-160 enables the operator to X-ray at very low kV (down to 20 kV), which makes the GemX-160 the right generator for composite, aluminum, plastic materials in all industries, especially in aeronautic and in aerospace.

#### High density objects

The voltage of the GemX-160 goes up to 160 kV which enables the operator to work with the GemX-160 in aluminum and steel industries (castings, piping, pipes, shipyards, ...). According to the IQI expectation, the typical penetration goes from 13 up to 25 mm Fe.

### ADVANTAGES

#### Image quality

The mini focal spot, the power and the rhythm of work of the GemX-160 provide impressive X-ray images.

#### Smart design

The 360° handle (which allows the user to direct the beam in any direction and to affix the generator very easily on pipes), the magnets on the remote control and on the laser pointer, the ability to place the GemX-160 on a tripod, are great features which simplify your job on site.

#### Real-time X-ray video

Together with X-RIS DR solutions, the GemX-160 gives the option to change kV and mA during the X-ray shot in order to adjust penetration and contrast. As a portable tool, this is a unique feature which will save you a lot of time, especially when you X-ray a new object.

## GemX-160

- ▶ Beam type : Constant potential
- ▶ Voltage : 20 (50) to 160 kV
- ▶ Current : 0.1 to 2 mA (1 mA @ 160 kV)
- ▶ Ripple : 0 V
- ▶ Insulation : Oil
- ▶ Weight : 14 kg
- ▶ Sizes : 282 x 278 x 188 mm

## GemX-160 OPTIONAL EXTRAS

- ▶ Tube  
Window : aluminum or beryllium  
Focal spot : 0.5 x 0.7 mm (EN 12543)  
(Other tubes upon request)
- ▶ Power supply  
28-35 Vdc  
Standard LiPo batteries (> 10 minutes of continuous X-ray at 160 kV - 1 mA)  
Advanced LiPo batteries (**NEW : + 60% energy**)  
Universal Vac power supply
- ▶ Control possibilities  
Integrated keyboard on the GemX-160  
Wired remote control  
Wireless remote control  
Ethernet communication for computer control (**NEW**)
- ▶ Accessories  
Wired flashing light and beepers  
Wireless flashing light and beepers  
Laser pointer  
Lead cap for safe warm-ups  
Collimators  
Tripod  
Dosimeters  
ABS carrying case

## GemX-160 SAFETY

- GemX-160 is CE marked
- Complies with international standards (NFC 74100)
- Flashing lights and buzzers available
- Clever security communication protocols ensure safety even in wireless mode
- GemX-160 does not contain any greenhouse gases under high pressure

## GemX-160 APPLICATION SHEETS

Detailed descriptions of applications carried out with our X-ray solutions are available on [www.xris.eu](http://www.xris.eu)



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