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# **Balteau NDT**

# **BALTOSPOT series**

## **PORTABLE X RAY GENERATORS**

BALTEAU is known for its unique, unequalled engineering and manufacturing of portable equipment for about 100 years. Since the introduction of the first gas insulated unit by Balteau in the late 50's, BALTEAU has continuously been upgrading and improving its series of products.

The leadership is nowadays again confirmed with the BALTOSPOT series of product represented by a set of 10 different generators ranging from 160 to 300 kV, panoramic or directional.

No matter the application, the location or the environment, our generators are used extensively around the world by Service inspection companies or by Production plants.



All specifications are non contractual and are subject to change without prior notice

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## Baiteau NDT

## BALTOSPOT series

### The series

The Baltospot series is divided in three main branches of products which specificities are corresponding to different applications, field of activities or budgets.

**CERAM** series is made up of 2 different generators based on a ceramic insert with a 100% duty cycle. The generator is specially designed to be operated in difficult environment with a constant output.

- Ceram 235
- Ceram 35

**GF** series derives from the Crawler technology and is providing a reliable and cost effective solution for price sensitive markets.

- GFD165
- GFC165
- GFC205
- GFC305

**LLX** series which is addressing high technology applications like aerospace where specific requirements or specifications are needed. These units are CP type units controlled by a DC1 or Hand XD control units.

- LLX110 DA/0 (ArtX110 DA/0)
- LLX110 DA/1 (ArtX110 DA/1)
- LLX160 DA/0
- LLX160 DA/1

### Control units

Exposure parameters are sometimes very different from one application to another. With our control units, all these values are accessible by well identified keys and can be stored in built in non volatile memories for further retrieval and use.

All our control units are designed to save on power and to be used on power generators if needed. The built in electronic is in charge of stabilizing the output to a constant value no matter the quality of the main power supply. In addition to the fact that the power requirements are the lowest on the market, this will allow you to get repeatable exposures without dose variations. The accuracy of your measurement and inspections are then assured.

As these units are specifically designed for field operations we have given them large handles, metallic covers and a shock proof design.

No concessions have been done on other characteristics: clear text display with back light, bright power led lights on warning indicators for up to 10.000 hours runs, lockable emergency switch, military type metallic connectors, etc...



## Balteau NDT

### HAND X, safety first



The HAND X® is a patented revolutionary product developed for the comfort and safety of operators in radiography.

This true wireless remote control gives the operator full control of all features of the generator.

When operating in open field for instance, the monitoring of the area under exposure requires that the X-ray exposure can be interrupted at any time. When the control unit is already in the monitored area, this implies that the operator will have to penetrate the area to proceed to the interruption of the exposure. This is not the case with the Hand X which, thanks to its integrated dosimeter, will also alert the user about the exact level of radiation. If for any reason the level is exceeding the level set by the user, the unit will automatically be shut down by the remote. The Hand X is also fully independent from the generator and can be exchanged without supplementary settings than switching off and on the full set to be ready to operate with a new set. And if you are not allowed to operate with radio operated devices, you may just put back the Hand X on its cradle and get back to a standard wired communication.



The HAND X also holds all data and history of exposure that may be later on retrieved with the help of the RS232 built in interface and a computer.

Finally, the HAND X is battery operated and can be charged either on its cradle or on a standard 12v DC charger. The Hand X can be used with all Baltospot generators and connected to a HDP or a CDP cradle provided the integrated software has been updated to its latest version.

### Ergonomy and comfort of use



All our keypads are sealed and water resistant to be used outdoor. Keys are convex to increase the easiness of selection.

All keypads are using consistent colour codes; Green for exposure related keys, red for Emergency and Safety related keys, yellow for Comfort and User's selections. All this being on a black background to increase visibility.

## BALTOSPOT series

### CF2000 compact control unit



The CF2000 is a compact control unit that can be used with any of the generator of the standard Baltospot series (GF and CERAM). The CF2000 has been designed to be integrated in industrial environments.

Large handles are placed on both sides to help transport while also protecting Military metallic type plugs. A convenient metallic cover is protecting the keypad. The colour is bright yellow to make it easily visible in dark areas.

The CF2000 only needs to be connected to a generator to recognize it and to adapt all parameters accordingly. The same control unit can then control Panoramic or Directional units without tiresome operations. The CF2000 carries the same features as the well known HAND X but doesn't have the RS232 interface neither the integrated Dosimeter. The CF2000 is the perfect choice for fixed or semi-fixed installations or for field operations where sufficient room exists or shielded areas are present.

### DC1, Digital Control unit for CP



DC1 has been developed to give the power supply to the Baltospot CP portable unit series LLX. DC1 uses the same concept and provides the same functions as the CF2000.

It can easily be recognized to its red handles and its size that is slightly smaller than the CF2000. The DC1 cannot operate Pulsed wave units like the CERAM or the GF series.

### Cables and connexions



Definitely a subject where BALTEAU excels. Our connectors and cables are designed to be lightweight and extremely resistant to ageing.

Our small diameter cables are perfectly adapted to field operations and we have made no compromises with our connectors that are still metallic and equipped with quick locking for safer connexions to the unit.





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# **Balteau NDT**

## **BALTOSPOT series**

### ***Balteau in words...***

BALTEAU is a company based and established in Belgium since 1906. The activity of the power transformers successfully turned into the X-ray business in 1932. Years after years BALTEAU has affirmed its leadership leading the technology and setting the foundation of modern X-ray technologies. The first company ever to reach 200, 300 and 400 kV in the past, BALTEAU has today brought to the industry new standards that are consciously safety oriented to allow users to operate equipment safer and easier. BALTEAU is also greatly caring about environment and always uses top grade and specification materials to ensure that the efficiency of the equipment will be at the top of what is technologically achievable.

On the service and spares side, BALTEAU is providing the buyer with an exceptional and unequalled commitment of continuous service all through the life cycle of the product.

Qualified engineers and an extensive worldwide network dedicated to serve our customers is actively participating to the success of our brand and to your possibility of always getting, from the selection of your equipment to its follow up in service, a qualified and professional support.

### ***Balteau in numbers...***

BALTEAU has a very long established network in more than 40 countries, some of our agencies are of second generation proving they rely on the quality of our products and that they are totally committed to their business in NDT.

BALTEAU has produced more than 13.000 generators spread in more than 60 countries. We have 3 ranges of products and are the only manufacturer in the world to provide from Crawlers to Systems built into the same factory.

### ***Balteau NDT in names...***

Patented names and commercial brandings are:

- BALTOSPOT (Portable and Crawlers X-ray equipment)
- GFC (Panoramic portable equipment)
- CERAM (Pulsed frequency portable equipment)
- HAND X (Radio remote control for portable X-ray)
- BALTOGRAPH (Stationary X-ray equipment)
- XSD (HF CP X mobile and stationary X-ray equipment – High power)
- CLD (HF CP X mobile and stationary X-ray equipment – Low power)
- BALTOSCOPE (Radioscopic and Digital imaging)
- AIS & Systems (Custom made)