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*Pulsed waved and constant potential generators,
from 1 to 300kV and up to 12mA*

BALTOSPOT ■ the portable range

CERAM SERIES

GF SERIES

LLX SERIES

HAND-X

CF2000

DC1

ACCESSORIES

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 products represented by a set of different generators ranging from 1 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.

THE SERIES

The Baltospot series is divided in three main branches of products, LLX series, CERAM series and GF series. The three series have different specificities and are corresponding to different applications, field of activities or budgets.

LLX SERIES



The LLX series is an air cooled, high frequency constant potential generator. It is dedicated to high technology applications like aerospace where specific requirements and speed of inspection are needed. These units are CP type and are controlled by a DC1 or Hand-XD and can be used in combination with digital detectors.

LLX110-DA



With 110kV and up to 12mA, LLX110-DA is the result of 25 years of Constant Potential equipment manufacture. This unit can be used in several applications such as Art & museum or where space is restricted for instance in aerospace applications.

LLX160-DA



With 160kV and up to 12mA, LLX160-DA is the result of 25 years of Constant Potential equipment manufacture. The specific shape given to the head of the generator makes it easier to use on field where space is always restricted for instance in aerospace applications.

LLX200-DA & PA



With 200kV and up to 12mA the LLX200-DA & PA complete its range of very lightweight and powerful portable X-ray generators. With the same advantages, this unit is made to be used on field where space is always restricted for instance in aerospace applications.

CERAM SERIES



The 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. Both units have to be combined to one of the two available type of control units, CF2000 or Hand-X with very lightweight new generation of cables.

CERAM 35



With 300kV, up to 5mA and a duty cycle of 100%, the CERAM 35 is offering to the user both duty cycle and an enormous power to fit any important requirements. The gas insulation and the right components selection have succeeded in producing one of the lightest 300kV in the market.

CERAM 235



With 235kV and up to 5mA, the CERAM 235 combines all technological advantages of its big brother with the flexibility of a smaller unit. No compromises have been made, the unit is able to run on a 100% duty cycle, thanks to its purposely designed tubehead and driving electronics.

GF SERIES



GF series derives from the Crawler technology and is providing a reliable and cost effective solution for price sensitive markets. These units have to be combined to one of the two available type of control units, CF2000 or Hand-X with very lightweight new generation of cables.

GFC & GFD 165



With a maximum of 160 kV and 5 mA, the GFC165 (panoramic) & GFD165 (directional) are compact gas insulated units designed for applications where size and weight matter. They are ideal machine for field applications where the unit needs to be frequently moved or inserted in tiny spaces.

GFC 205



With 200 kV and 5 mA, the GFC205 can be classified in the range of middle power units available at Balteau NDT. Fields of operations for this kind of equipment are generally piping industry, tanks, reservoirs and hollowed components, where a panoramic exposure can be done.

GFC 305



With 300 kV and up to 5 mA The GFC305 can be classified in the range of high power units available at Balteau NDT. Fields of operations for this kind of equipment are generally piping industry, tanks, reservoirs and hollowed components, where a panoramic exposure can be done.

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 made 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...

HAND-X & HAND-XD



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.

CF2000 & DC1 - Control units



The CF2000 & the DC1 are compact control units that can be used with any of the generator of the standard Baltospot series (GF and CERAM for the CF2000 & LLX for the DC1). They have 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.

They only need 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. Both of the units are the perfect choice for fixed or semi-fixed installations or for field operations where sufficient room exists or shielded areas are present.

The DC1 can easily be recognized by its red handles and its size that is slightly smaller than the CF2000, it cannot operate pulsed wave units like the CERAM or the GF series as the CF2000 cannot operate CP units.

Ergonomy & 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.

Cables & connections

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 connections to the unit.



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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 15.000 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 in names...

Patented names and commercial brandings are:

BALTOSPOT (Portable and Crawlers X-ray equipment)

- LLX (Constant potential portable 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 (Digital imaging & NDT Software)

AIS & Systems (Standard & custom made)

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