

LS1 is a micro processor based unit able to drive any generators of the BALTOGRAPH® series. From 100kv units to 450 kV, stationary or mobile, the same control unit can be used and will automatically recognize, Units and tubes connected.

An innovative and evolutive embedded software made by Radiographers with downloadable additional features, is the brain of all operations and thanks to the central Ball navigator®, operations and selections are becoming intuitive and easy.

The Large TFT colour screen enclosed into the front cover is foldable and well readable by changing the inclination to your convenience.

Working status can visually be checked at all time as the main indicators are outside of the cover area.

Very compact and lightweight the LS1 is designed to be used with either a mobile or stationary unit. A system version also exists to be integrated in cabinets and electrical enclosures.



Size and performances

With an external look similar to our line of product this unit is made up of an aluminium casing including all controls and displays. One connector only is linking the LS1 to the generator.

The central Ball navigator® for functions selections and activations is made in brushed Stainless steel and is IP54.

The foldable display is protected by a transparent anti scratch layer and enclosed into a metallic casing.

The unit is powered by the generator and therefore can be used in either 110 or 220v.

LS1 Software

Based on a well known industrial operating system and developed by BALTEAU, the LS1 Software is the key of the system.

The software offers different operating modes including TV mode, Auto preheating, Diagnostic mode, Calibration and KWC where maximum output can be selected automatically without looking at a load curve.

Exposure and load curves for the connected tube are built in and can be recalled as active parameters for automatic exposure programming. Tube management and different users memories are included in the basic software and other different plug-ins can also be added later on by simple Web download.

The LS1 has input/output possibilities for reporting, parameters setting, etc, through Mass memory devices (USB keys) or I/O programming (optional).

Messages and status are displayed by a large industrial TFT color display that can be adjusted in angle for a maximum comfort of vision.

Service and maintenance

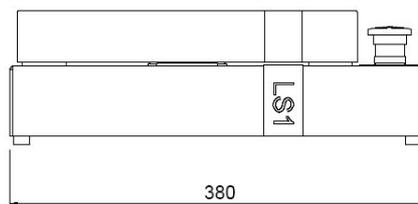
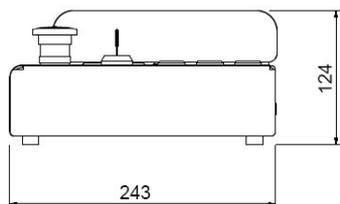
When service or maintenance are required, it is very useful to have the possibility to retrieve raw data and eventually communicate it to the closest service center for pre diagnostic. The LS is offering this feature and more by monitoring several parameters of your generator, your tube or the control unit and recording this for further use or for preventive maintenance. Calibration can also be facilitated by using this feature.

Expandability

The LS1 can become the starting point of your future expansion to Systems by providing multiple interfacing possibilities with Manipulators, Image processing Systems, or Detectors. See our Systems engineers to see how this can be done and obtain a clear vision of what our LS1 can do with your requirements.

Specifications

Mechanical



Casing: Aluminum

Weight : 4,8 kg

Electrical

Mains	V	90 – 245
Frequency	Hz	45 – 66
Measure of kV and mA		True measure
LED display and safety device		3 positions key switch, Mains ON, X-ray ON, Prewarning Emergency stop, Buzzer for audible warning

Embedded software

Main screen	Selection mode, settings and controls
kV step	1 – 2 – 5
mA step	0,1 – 0,2 – 0,5
Memories	10.000 with users directories
Modes	Standard user, Supervisor, SAV (Maintenance and service)
Misc.	Multiple tubeheads database management, Built in Help & Operating manual, Exposure curves, Database option, Intelligent preheating, ...

Connections

Generator connection	Sub-D26
Device connection	1 x USB 2.0
4 configurable and programmable I/O	Sub-D9

Environmental

Operating temperature °C	+5 to +50
Protection	IP54

Optional accessories

USB storage device, USB mouse

Producer

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