



EN User Instruction Flashlamp

Application area and intended use


The Xenon and Krypton flashlamp is a gas discharge lamp and has been designed to be used within Laser Systems, IPL Systems, Solar simulation and other optical devices.

 This flashlamp is out of scope of Regulation EU/2020/2019 as amended in accordance with Article 1 and 2 and not intended for general lighting. Any use in other than the intended applications is not admissible.

Safety Information

 → Follow the safety instructions. Non-observance of the safety notes may cause hazards to persons, the environment and the flashlamp.


DANGER dangerous voltage

 Electric shock may occur when working under voltage. Danger to life.


→ Disconnect flashlamp from the power supply. Check that the system is de-energised. Secure against restarting.

WARNING optical radiation


Ultraviolet radiation

 This flashlamp belongs to Risk group 3, High risk, pursuant to EN 62471 (Photobiological safety of lamps and lamp systems). Direct or indirect UV radiation damages eyes and skin.

UV radiation alters materials that are not UV resistant. It is the end user's obligation to evaluate the risk of UV radiation on materials within the end user's premises that are not UV resistant


 → Do not look into the radiation. Mark working area with appropriate warning signs. Take appropriate precautions to protect the user. Prevent direct or indirect exit of UV radiation. Shield off UV radiation by means of protective filters, e.g. with: Glass/plastic/curtains/metal sheet of appropriate impermeability. Wear personal protective equipment.

Infrared radiation

 This flashlamp belongs to Risk group 3, High risk, pursuant to EN 62471 (Photobiological safety of lamps and lamp systems). Direct or indirect IR radiation damages eyes and skin.

→ Do not look into the radiation. Mark working area with appropriate warning signs. Take appropriate precautions to protect the user. Shield off IR radiation by means of protective filters, e.g. with: Glass/plastic/curtains/metal sheet of appropriate impermeability. Wear personal protective equipment.

WARNING Explosion hazard

 The flashlamp poses an ignition hazard. Use in potentially explosive atmospheres (areas) is prohibited.

WARNING Danger of fire

 Flashlamps in operating mode reach a temperature far in excess of 300°C.


→ Do not expose to flammable substances.


WARNING Danger of fire due to chemical reactions

 Avoid exposure of highly flammable substances to radiation.

→ Take appropriate measures against self-ignition of the processed media.

WARNING Danger of lamp breakage

 The lamp envelope is made of fragile quartz glass. When quartz glass breaks, it forms sharp edges that may cause injury.

 → Wear gloves when handling the lamp.



CAUTION Hot surface

A bare flashlamp could reach envelope temperatures far in excess of 300°C during operation. Risk of burning when touching the hot surface.

→ Allow the flashlamp to cool sufficiently, at least 10 minutes.



CAUTION Ozone

Depending on operational mode flashlamps may generate significant amounts of ozone due to short wavelength UV radiation. Ozone endangers the health.

→ Operate flashlamp in an appropriately sealed compartment or ensure good ventilation of the workplace. Extract the ozone to prevent a build-up of ozone concentration to potentially unsafe levels using appropriate extraction devices (decoupled).

Transport



→ Transport the flashlamp in its original packing to the place of installation. Finger sweat or grease on the quartz glass envelope leads to radiation losses and can shorten the lamp life. Avoid touching the quartz glass envelope with bare hands. Wear gloves. The lamp must be cleaned, if it has been touched with bare hands.

→ Prior to installation, check the flashlamp for mechanical damage. **Never use damaged lamps.**

Installation

De-energise the unit before commencing work on it in accordance with the relevant safety precautions for working with electrical equipment. Install or replace the lamp in the instrument according to the instruction manual of the instrument in which the lamp is used. Allow the lamp to cool sufficiently to prevent burns from hot surfaces. Only use the tools described in the maintenance manual to replace the lamp.

If the lamp is not equipped with a plug, the work must be carried out by qualified specialists. Use the connection diagram according to the instruction manual of the instrument to connect the leads using the correct tools.

Disposal

RoHS: Flashlamps are in scope of Directive 2011/65/EU (RoHS II, Category 5 *Lighting equipment*). Flashlamps do not contain any of the restricted substances in Annex II of RoHS II to more than the maximum concentration values tolerated in homogenous materials and are RoHS II compliant.

China RoHS: Flashlamps are subject to the People's Republic of China law *Management Methods*, Order No. 32 of January 6th, 2016.



→ Flashlamps must be labelled with the pictured green "e", as stipulated in Standard SJ/T 11364-2014 because the lamps do not contain any of the substances restricted in Standard GB/T 26572-2011 above the specified concentration limits. The lamps should be recycled in accordance with the relevant legal requirements for electrical and electronic waste

WEEE: Flashlamps are in scope of Directive 2012/19/EU WEEE and can be classified according to Annex 3(3) and 4(3) (Lamps: Gas Discharge Lamps). Flashlamps may not be disposed of in the normal commercial or industrial waste. UK and EU users must dispose of the lamps at a communal recycling center for electrical and electronic waste. Other users should recycle, otherwise dispose of the lamps in accordance with the relevant legal requirements.



EU Declaration of Conformity

This flashlamp is in conformity with the following Directives: RoHS 2011/65/EU, Low Voltage 2014/35/EU. If required, a complete Declaration of Conformity can be requested.

Low Voltage Directive: The quartz glass construction of this lamp in un-mounted condition has very high values for creepage and clearance, however it is not possible to run the lamp alone. It must be fitted into specially designed housing or cavity. The design of this housing / cavity with the installed lamp must comply with the European Low Voltage Directive 2014/35/EU with regards to creepage and clearance.

Complaints

→ In the event of a complaint, please contact the supplier: either service@litron.co.uk or your local distributor.