



Providing Excellence in Science Education

IPC Irwin Ultraviolet LED Lamp

(mains powered)

Part Number OUV4001

User Instructions



INTRODUCTION.

The new updated IPC Irwin Ultraviolet LED Lamp is a mains powered unit designed to produce a uniformed and constant UV light output at 410nm, making it ideally suited to demonstrate the properties of ultraviolet light.

The UV Lamp provides the ability to make the phosphorescence properties of chemicals glow, for example washing powder. Along with helping students understand concepts such as light interaction with matter, experiments with the principles of light wavelengths and optics can be performed, including work in the new Forensic Science part of the syllabus.

This newly designed UL Lamp uses the latest LED technology, therefore providing a much safer and reliable solid-state UV light source.

DESCRIPTION.

The Ultraviolet LED Lamp incorporates nine UV LEDs, each enclosed in individual reflectors designed to produce a perfectly uniformed light output. The UV Lamp is fitted with a 1.0m mains lead and has standard UK mains plug (3A fuse) moulded to the lead, this lead also incorporated the on/off switch.

The UV Lamps itself is housed in a black powder coated extruded metal case and fitted with a single clear plastic window over the LEDs. Two support brackets are supplied with the UV Lamp, which simply attach to the ends of the housing, therefore allowing the UV Lamp to be fitted to any type of support structure.

IPC Irwin

Holker School, Cark in Cartmel, Grange over Sands, Cumbria LA11 7PQ, United Kingdom

Call: 015395 58555 **Email:** sales@ipcirwin.com



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INSTRUCTIONS.

To operate the Ultraviolet LED Lamp first connect the mains plug into a nearby socket, then simply switch on using the on/off rocker switch incorporated in the mains lead.

SPECIFICATIONS.

Electrical Supply	= 220-240VAC, 50-60Hz.
Power Consumption	= 30 Watts.
LEDs	= 9 x 3 Watts.
UV Lamp Wavelength	= 410nm.
Dimensions	= 510 x 60 x 50mm.
Mass	= 0.8kg.
Mains Lead	= 1.0m, UK Mains Plug (3A fuse) with ON/OFF switch incorporated.
Accessories	= 2 x Support Brackets.

Please Note: This Equipment is for Education, Training, or Research Purposes Only.

IMPORTANT - ELECTRICAL SAFETY NOTICE

Only connect the product to single phase mains electrical supply (with neutral nominally at each potential), also check that the supply voltage and frequency are within the products stated range. Before connecting to the mains electrical supply, examine the information on the products rating label (the value of the fuse fitted to the product is also stated), ensure that the mains plug or outlet circuit is fitted with an appropriate fuse of higher value.

WARNING: THIS PRODUCT MUST BE EARTHED

This product is designed for Electrical Safety Class 1.

If a mains lead is not fitted or supplied, connect the wires to a Standard UK, 3-pin plug as follows:-

Green/Yellow wire to the terminal marked: E (Earth) or coloured Green or Green/Yellow.

Brown wire to terminal marked: L (Live) or coloured Brown.

Blue wire to terminal marked: N (Neutral) or coloured Blue.

LIVE PARTS SHOULD NEVER BE EXPOSED UNLESS THE PRODUCT HAS BEEN SWITCHED OFF AND ISOLATED FROM THE MAINS ELECTRICITY SUPPLY.

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Declaration of Conformity (In Accordance with EN ISO 17050-1:2010).

Manufacturer: **IPC Irwin, Holker School, Cark-in-Cartmel, Grange-over-Sands, Cumbria, LA11 7PQ, United Kingdom.**

Product/Part No: **Ultraviolet LED Lamp (230V AC, 50Hz main voltage)/OUV4001**

This conformity certificate approves the compliance of the product with the essential safety requirements of the following UK Standards and Regulations:

SI 2005 No.1803	General Product Safety Regulation (implements Directive 2001/95/EC).
SI 2016/1101	Electrical Equipment (Safety) Regulation (implements Directive 2014 /35/EU.
EN 61010-1: 2010	Electrical Requirements for Laboratory Test & Measurement Equipment.
EN 61000-6-1: 2019	EMC, Generic Standards, Immunity for Residential, Commercial and Light Industrial Environments.
EN 61000-6-3: 2019	EMC, Generic Standards, Emission for Residential, Commercial and Light Industrial Environments.
SI 2012 No. 3032	Restriction on Hazardous Substances (RoHS) in Electrical and Electronic Equipment Regulation, (implements Directive 2011/65/EU).



Mark can be used only in the case of conformity assessment according to all relevant UK Standards and Regulations.

EU Declaration of Conformity (In accordance with European Parliament and Council Decision No: 768/2008/EC Annex III).

This conformity certificate approves the compliance of the product with the essential safety requirements of the following EC/EU Directives (Manufacturer, Product/Part No: as above).

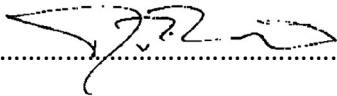
2001/95/EU	General Product Safety Directive.
2014/35/EU	Low Voltage Directive (LVD).
2014/30/EU	Electromagnetic Compatibility (EMC) Directive.
2011/65/EU	Restriction on Hazardous Substances Directive (RoHS).

European harmonised Standards used for conformity assessment and declaration:

EN 61010-1: 2010	Electrical Requirements for Laboratory Test & Measurement Equipment.
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Dickon Knight (Director):  Date of Issue: 24th May 2023.

In the event of any correspondence concerning this product, please contact your supplying agent quoting the catalogue number and serial number shown on the apparatus rating label, together with the voltage and frequency of the mains electrical supply. This will help us to process your enquiry quickly. Any spare parts which may be required are supplied on the understanding that the replacement of those requiring the exposure of live electrical connections **will** be undertaken by an electrically qualified person.

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Thank you for choosing this IPC Irwin product, which has specifically been designed for education, and we know it will bring you good service long into the future. This is just one product of a wide range of UK designed and manufactured products to enhance a STEM education. Please see www.ipcirwin.com website for more details on the products and service we provide to support teaching and learning in science and technology.

IPC Irwin also provide Portable Appliance Testers and a Calibration service, for more details please go to www.ipcirwin.com or call our sales and technical support line on 015395 58555.



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