

# OLYMPUS LIGHTSOURCES

## Introduction

Light sources are used to illuminate the inspection area. These external units provide illumination which is transmitted to the viewing instrument by a light guide cable, and then through the scope via the integral fiber bundle to the viewing tip. A range of light sources with different lamp types and power requirements is available to suit a wide variety of working environments.



## High Intensity

### ILH-2

For examination of large cavities and viewing over longer distances, or where CCTV or photographic equipment is in use, a high intensity light source is recommended, such as the Olympus ILH-2, which uses a powerful 50W Metal Halide arc lamp. The small size and light weight aids portability and makes the ILH-2 an ideal solution for portable system packaging solutions.



It is available in two different variants - the ILH-2A for operation from AC power supplies and the ILH-2B for DC battery compatibility or from a separate AC power supply. In addition, both versions feature two separate 12V DC outputs for convenient connection to accessory products such as CCTV cameras and LCD monitors.

The ILH-2 light source can be retrospectively fitted to many of the Olympus Series 6 videoscope system packages where the resulting improvements in brightness allow significant enhancements in performance for these systems.

The ILH-2 will accept standard Olympus light guide cables and by using an accessory lamp tray assembly, is compatible with the larger light guide cables employed by 16mm (0.63") diameter rigid borescopes. A mechanical brightness control is featured to adjust the light output without affecting the color temperature.

**NOTE:** The ILH-2 lamp contains Mercury. Dispose according to local, State or Federal laws.

### ILP-1

The ILP-1 light source has been specifically designed for large void inspections. Incorporating the latest UHP lamp technology it is now the brightest, most powerful light source ever produced by Olympus.

The ILP-1 has two Hirose power outputs offering a 12VDC 4 amp total for operation of Olympus ancillary equipment.



**NOTE:** The ILP-1 lamp contains Mercury. Dispose according to local, State or Federal laws. For specifications Please download our [Remote Visual Inspection brochure](#) and refer to pages 18 and 19.

## Tungsten Halogen

An increasing number of users select high-intensity light source for maximum versatility (especially when CCTV or photography equipment is used), however many needs can still be met with tungsten halogen light sources. For more information and specifications please download the [Remote Visual Inspection Brochure](#). Specific information is located on pages 18 and 19.

### **ILK-7, ILK-7A, ILK-7B and ILK-7C**

These light sources use a 150W tungsten halogen lamp and provide a high quality, reliable and economic solution for many inspections. The three versions offer different power supply options and each has a rugged handle for easy portability and a shoulder strap is also available for increased mobility.



### **ILK-D1**

Typically used within Security applications, this portable light source has been developed specifically for use with a 12V DC power source, such as a battery belt, and includes a clip for mounting onto a belt or jacket pocket. Using a 75W lamp, the battery consumption is lower than the ILK-D2 and ILK-7 range, yet the light output is sufficient for many borescope and fiberscope applications.



### **ILK-D2**

The ILK-D2 is a compact, portable light source that uses a 100W lamp, powered from a 12V DC source, making it ideal for field use. The unit has a four position light guide socket, providing mechanical brightness adjustment.



### **KLS-131**

Initially developed as part of the Modular Borescope system, the KLS-131 can also be used as a standalone light source. Featuring a 50W lamp, the unit benefits from low power consumption and is available with crocodile clips for vehicle battery use.



## Ultra-Violet

A common non-destructive testing (NDT) technique for crack detection uses dye-penetrant. In this method, dye remains in the cracks after cleaning, which is then observed when it fluoresces under ultra-violet light.

To suit this application, and others where ultra-violet light is required, Olympus offers a high power UV light source which is compatible with all light guide cables and fiberscopes. Liquid light guide cables are recommended for best UV results.

The light source is capable of transmitting white light as well as UV and a selection switch allows the user to change the illumination mode.

### **Specification:**

**Lamp type** 200W mercury pressure lamp

**Weight** 7.5kg (16.5lb)

**Dimensions** 265x150x256mm (10.4x5.9x10.0")

**Power supply** 100-240V AC, 50-60Hz

### **UV Fiberscope**

Glass fibers used in borescopes and standard specification fiberscopes attenuate UV light and can only therefore be used to view the fluorescing images, not to transmit UV illumination. In order to transmit ultra-violet illumination and view the images with one instrument, a special feature fiberscope is required.

The IF11D4-20UV fiberscope is available with or without an internal channel and features a quartz fiber bundle for effective ultra-violet illumination. The 11.3mm (0.44") diameter instrument is available in two lengths - 2.0m or 3.0m (6.6 or 9.8 ) and ,where specified, the internal channel can be used to introduce the dye and processing fluid necessary in this application.

**Please note that the UV fiberscope is only available as a special production item and is therefore subject to a longer delivery lead time.**