GE
Sensing & Inspection Technologies

# Light Sources

## Remote Visual Inspection

### Brilliant White Light

In dark industrial environments, you need high quality lighting to get optimum inspection results. Our 24 Watt and 60 Watt Solarc® light sources provide brilliant white light for industrial borescope and fiberscope inspections.

For a more versatile inspection, our 120 Watt light source provides UV and white light output.

When clarity and precision are essential, count on the Everest line of light sources to provide the brightest light output for your inspection.

# ELSV-60
# 60 Watt Metal-Halide Light Source


- Video pass-through channel eliminates the need for extra cables and power cords
- Bright color box ensures easy visibility during night inspections
- Safe and user-friendly lamp system does not produce excessive heat
- Dual video outputs allows for viewing on two separate monitors at the same time

The ELSV-60 features patented, field-proven Solarc® lamp technology that's unlike anything else in the industry. This technology has a greater efficiency than halogen or xenon lamps when transferring light into a small fiber bundle such as those found in borescopes and fiberscopes. The lamp runs on only 60 W, keeping the ELSV-60 small and lightweight, and providing high-intensity white light without producing the excessive heat associated with 300 W xenon light sources.

The ELSV-60 offers a video channel for simple camera setup and operation. An intuitive single cable connection provides power to the camera and carries the signal from the camera back to the light source. Video outputs on the front panel provide the signal to a monitor or video recording device via composite and/or S-VHS connectors.

## Specifications

### Power Ratings

**Power In:** 100-240 VAC
Fuse Set: 2 each 2.0 A, 250 V, type F (fast acting), 5 x 20 mm

### Physical

**Dimensions:** 23 x 23 x 9.3 cm (9.0 x 9.0 x 3.7 in.)
**Weight:** 2.4 kg (5.3 lbs.)

### Illumination System

**Lamp:** Solarc Metal Halide, 60 W, 60 V
**Color Temperature:** 6500 k
**Median Lamp Life:** 1000 hours
**Intensity Control:** Manual shutter (0 to 100 % output)
**Light Guide Interface:** Olympus® Standard

### Environment

**Operating Temperature:** 0 to 60°C (32 to 140°F )
**Operating Humidity:** 0 to 95% rh, non-condensing
**Storage Temperature:** -23 to 60°C (-10 to 60°F )
**Storage Humidity:** 30 to 75% rh, non-condensing

### Video Pass-Through Channel

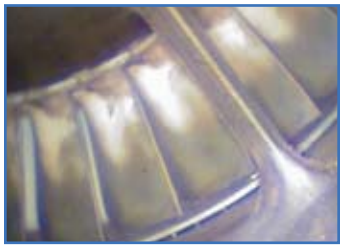
Multifunction cable connection provides power and composite/S-Video from input device* to output device/monitor.

**Connector type:** Hirose (HR10A-10R-12S)

*To reduce eye strain or to allow multiple viewers, a fiberscope or rigid borescope inspection can be captured by a camera using a BCAM-1000 C-mount video camera and displayed on a video monitor. Ask a GE Sensing & Inspection Technologies sales professional about part number – **CAM/LS SET 60**

### Accessories

| Part Number | Description |
|---|---|
| SPL-600 | Replacement lamp |



LPT blades in a turbine engine

Components on a pri


*Fiberscope camera system usir*

# ELS-24DC
# 24 Watt Metal-Halide Light Source

The 24 W Solarc® light source's lamp technology has much greater efficiency than halogen or xenon lamps when transferring light into small fiber bundles, providing premium lighting at only 24 W. Ideal for mobile applications, the 24 W light source can also be ordered as a battery-operated kit within an over-the-shoulder carry-bag, allowing lightweight, hands-free portability.


## ELS-24DC KIT

Ordered as an ELS-24DC KIT, the light source comes equipped with a rechargeable battery, charger, and an "over-the-shoulder" carry pouch. Provides over 4 hours of portable lighting between each charge.

- Small arc size, optimized for borescopes, resulting in a higher percentage of light entering the fiber bundle and less light wasted
- Brilliant white light approximates true daylight illumination to provide for more accurate color rendition
- Safe and user-friendly lamp system produces minimal heat
- High-efficiency lamp provides bright light in a small, portable package

nted circuit board


Bright illumination even on black castings

*Monitor*

*ng ELSV-60 video pass-through*

## Specifications

### Power Ratings

| | |
|---|---|
| **Light Source Input:** | 12 VDC; 2.6A DC |
| **AC Adapter Input:** | 100-240 VAC, 50/60 Hz, 1-6A max, Phihong model: PSS-45W-120 |

### Physical

| | |
|---|---|
| **Dimensions:** | 11.4 x 8.4 x 8.4 cm (4.5 x 3.3 x 3.3 in.) |
| **Weight:** | 0.7 kg (1.6 lbs.) |

### Illumination System

| | |
|---|---|
| **Lamp:** | Solarc Metal Halide, 24 W, 60 V |
| **Color Temperature:** | 5500 k |
| **Median Lamp Life:** | 350 hours |
| **Intensity Control:** | Manual shutter |
| **Light Guide Interface:** | ACMI Standard, alternates available |

### Environment

| | |
|---|---|
| **Operating Temperature:** | 0 to 38°C (32 to 100°F ) |
| **Operating Humidity:** | 0 to 95% rh |
| **Storage Temperature:** | -23 to 60°C (-10 to 140°F ) |
| **Storage Humidity:** | 30 to 75% rh |

To reduce eye strain or to allow multiple viewers, a fiberscope or rigid borescope inspection can be captured by a camera using our BCAM-1000 C-mount video camera and displayed on a monitor. Ask a GE Sensing & Inspection Technologies sales professional about part number – **CAM/LS-24DC SET**

### Accessories

| Part Number | Description |
|---|---|
| SPL-240 | Replacement lamp |
| ELS-24-O | Olympus®-style light guide interface adapter |
| XA207-LS | Replacement battery for kit |

# ELS-120UV
# 120 W UV/White Light Source


The ELS-120UV delivers the versatility of UV and white light output in a single, compact and portable design. The 120 W UV light source has been specifically developed for operation with fiber optic and liquid light guide cables.

The lamp and mirror are an integrated assembly, allowing for quick lamp replacement. No adjustments are required after replacement and the light source is immediately ready for use. The design of the lamp is also more resistant to damage during transit.

With variable light intensity the ELS-120UV can be switched between UV and white light.

## Specifications

### Power Ratings

| | |
|---|---|
| **Power In:** | 100-240 VAC, 50/60 Hz |
| **Power Consumption:** | 180 W |

### Physical

| | |
|---|---|
| **Dimensions:** | 27.5 x 12 x 31 cm (10.8 x 4.7 x 12.2 in.) |
| **Weight:** | 5 kg (11 lbs.) |

### Illumination System

| | |
|---|---|
| **Lamp:** | High Intensity 120W. Provides UV and white light. |
| **Median Lamp Life:** | 1000 hours |
| **Intensity Control:** | Manual shutter (0 to 100 % output) |
| **Light Guide Interface:** | Olympus® standard |

### Environment

| | |
|---|---|
| **Operating Temperature:** | 10 to 40°C (50 to 104°F ) |
| **Operating Humidity:** | 10 to 95% rh |
| **Storage Temperature:** | -20 to 60°C (-4 to 140°F ) |

To reduce eye strain or to allow multiple viewers, a fiberscope or rigid borescope inspection can be captured by a camera using our BCAM-1000 C-mount video camera and displayed on a monitor. Ask a GE Inspection Technologies sales professional about part number – **CAM-V101 SET**

CE ISO 9001 REGISTERED COMPANY TÜV Rheinland of North America, Inc. US

www.geinspectiontechnologies.com/en

GEIT-65031EN (08/08)