



## HD-851

The UNILUX HD-851 is a high power surface inspection light intended for continuous high speed production lines. The overall design of this powerful industrial inspection light places special emphasis on minimizing and simplifying equipment maintenance. The HD-851 operates from various controllers or external triggering signals such as video, pulse or current.

**Uniform light coverage**

**Easy installation**

**Durable remote controllers**

**Line speed tracking**

### Key Features

- Long life snap-in lamp
- Large efficient air filter
- Easy access for maintenance
- Adjustable yoke
- Press-to-test switch
- Safe-connect indicator

### The HD-851 Advantage

- Auto adjust worldwide supply voltage
- Quick release mounting
- Self-contained power design
- Plug-in power module
- Line speed tracking available

### Applications

**METALS:** Used on hot and cold mills and continuous process lines

**PRINTING:** Wide web inspection, slitter/rewinders

**CONVERTING:** Wide web inspection, presses, slitter/rewinders, coaters, laminators



## Specifications

### POWER INPUT

- 90-250 VAC; 50/60 Hz
- 600 VA max
- 0.99 Power Factor (above 200W)

### TRIGGERING

- Pulse Source: +2.5V pk min, >=100 µsec min width
- Current sink: >=8VDC @ 10mA rating
- Video: 1 Vp-p normal unterminated. Triggers from 30Hz frame rate or 60Hz field rate

### TRIGGER SUPPLY

- Regulated 12VDC current limited @100mA. Available at the "Trigger In" connector
- Meets SELV requirements of VDE0805 and IEC950 safety inspections

### TRIGGER OUTPUT

- Open collector signal for synchronously driving a second unit. Available at the "Sync Out" Connector

### INTENSITY OUTPUT

- RS422 serial data for controlling intensity of a second unit. Available at the "Sync Out" connector

### ENERGY OUTPUT

- 4 joules standard @ 6000 fpm
- Optional 2, 6 & 8 joules @ other maximum rate flashes

### LAMP OUTPUT

#### Illumination

- 3200 Lux @ 1.25 meters
- 100% intensity at max flash rate

#### Flash Duration

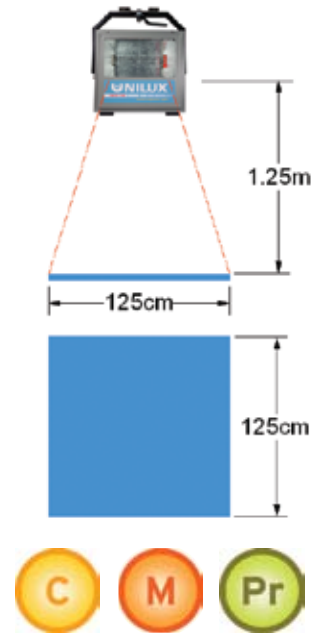
- 20 Microseconds

### PHYSICAL

- 406mm x 370mm x 228mm 16kg (16in x 14.6in x 9in) 35lbs

#### Environmental

- 0°C to 50°C (32°F to 122°F) continuous operation. Note: Operating in higher temperatures may trip the internal overheat switch (unit will cycle on and off).



## REMOTE CONTROL OPTIONS

Depending on your needs, HD-851 systems can be operated with different remote controls or from various external triggering sources.

### MICRO REMOTE CONTROL

The HD-851-B features the basic remote control with full control settings for power, intensity, flash rate and internal and external triggering.

#### Features

- Four light intensity on/off levels
- Switch between internal or external triggers
- Set up for automatic line synchronization available in printing applications when used with rotary encoder.



### SILC

The HD-851-SE features the Surface Inspection Lighting Controller (SILC) with full menu control of all functions and automatic tracking with pre-set storage. A two-line character display simplifies operation and supplies line speed information. A rotary encoder is included.

#### Features

- Adjustable intensity (30-100%)
- Auto sync to line speed
- Metric or English options
- Sealed membrane switches
- Controls multiple light heads
- Easy set-up menu



## MOUNTING OPTION

Carbon steel construction with friction adjustments with a maximum reach of 1219.2 mm (48 inches). Easily swing the light as needed for inspection.



## AIR INTAKE HOOD OPTION

Used in oil or water mist environments, clean air is imported through the customer-supplied hose clamped to the optional air intake hood.



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