

# The Guardian

The Guardian's intense, focused light makes it the choice for rewinder operators worldwide. The even illumination and short pulse duration allows operators to spot flaws, misprints, color variations and/or voids at full speed on webs up to 60cm (24"). By synchronizing to various signals, the operator can be hands-free. And, as jobs and surface reflection change, the intensity settings can be personalized according to preference. With a 3 to 1 lamp life over its competition, it outshines, outlasts and outperforms any other light in its class.

## Automatic line speed tracking of web

## 100% web inspection up to 60cm (24")

## Remote control capability

## Significant waste reduction

## Key Features

- Illuminates surface areas of 60cm x 40cm
- Self contained design for easy installation
- Adjustable intensity setting from 50-100%
- Flash range up to 9600 fpm
- Easy change from external to internal control
- Remote control with harmonics and readout

## The Guardian Advantage

- Immediate knowledge of surface quality
- Designed for 24/7 operation
- Cooling fan for extra long lamp life
- Self contained design for easy installation
- Operates on universal voltages of 90-250VAC

## Applications

**PAPER:** Printing, Rewinding, Security Print Inspecting

**METALS:** Galv Lines, Tin Mills

**CONVERTING:** UV Printing and Coating Inspection



## Specifications

### POWER INPUT

- 90 to 250 VAC, 50/60 Hz
- 100 VA max

### TRIGGERING

- Pulse Source: +2.5 V pk min to +15V max zero based pulse, 100µsec min pulse width, 2kΩ input impedance
- Contact closure or open collector: 8Volts DC @ 4mA

### TRIGGER SUPPLY

- Regulated 12 VDC, current limited at 100 mA available at the "TR" connector

### TRIGGER OUTPUT

- Not available on this model

### INTENSITY OUTPUT

- Not available on this model

### ENERGY OUTPUT

- 1 joules/flash @ 3600 f/m
- 0.38 joules per flash @ 9600 f/m

### LIGHT OUTPUT

#### Illumination

- 2700 Lux (250 foot candles) at 0.3 meters (1 foot) 100% intensity and 6000 f/m
- 2040 Lux (190 foot candles) at 0.3 meters (1 foot) 100% intensity and 9600 f/m

#### Flash Duration

- 20 microseconds

#### Intensity Levels

- 50% to 100% continuous adjustment

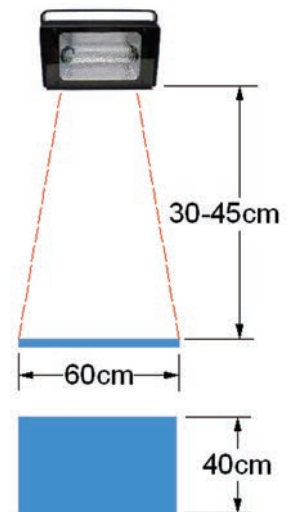
### PHYSICAL

#### Without Yoke

- 15 cm x 14 cm x 24 cm, 3.2 kg (6 in x 5½ in x 10 in, 7 lbs)

### ENVIRONMENTAL

- Continuous operating temperature range: 0°C to 40°C (32°F to 104°F)
- Humidity: 95% noncondensing



## UV ILLUMINATION

Our UV illumination strobe kits allow inspection at full production speed of security print, coatings, sealers and incandescent inks. Using our manual controls or external signals for perfect line speed synchronization, UNILUX has a light to fit any application.



Without UV Lens



With UV Lens

## INTERNAL/EXTERNAL CONTROL SWITCH

The Guardian allows you to choose your operation mode. The Internal mode allows you to set the flash rate between 60 to 9600 f/m. During the External mode, the lamp synchronizes with the trigger signal up to 9600 f/m and will ignore every other trigger input over the 9600 limit.

## REMOTE CONTROL

For hard to reach applications, the remote control supplies the operator with a remote control providing flash rate control, harmonic buttons X2/÷2, an on/off flash signal and a digital readout of flash rate.



## OPTIONAL PICKUP

The OMRON optical provides a simple inexpensive solution to synchronize your rewinder to the Guardian. It allows you to inspect from your first label to the last, hands free, as it synchronizes to the line speed.



**To find a UNILUX representative near you,  
call 1-800-522-0801 or go to [www.UNILUX.com](http://www.UNILUX.com)**

