

LED2000 SERIES

STROBOSCOPIC INSPECTION LIGHTS

POWERFUL INSPECTION ACROSS THE ENTIRE WIDTH OF THE LINE

LED2000 Series Inspection Systems make it easy to identify flaws in surface, coating or print quality so you can react quickly to maintain quality and reduce scrap.

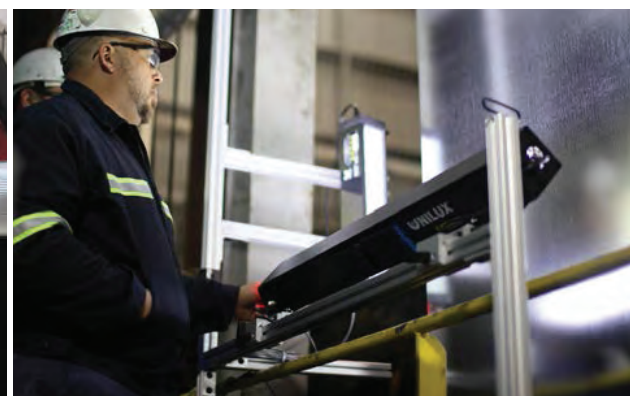
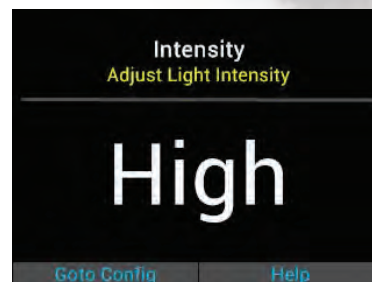
Exceptionally bright, even coverage delivers crisp, clear detail, while long-life LEDs and rugged design reduce the need for maintenance.

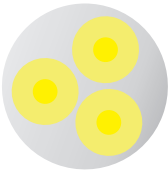


NEW

SMARTASSIST™

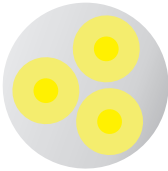
From the engineering team that reinvented stroboscopic inspection with brighter, more efficient LEDs comes Smart Assist - another use of current technology to improve the consistency of your manufacturing process.





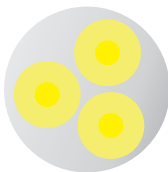
STANDARD FLOOD COVERAGE

THE LED2000 with standard flood coverage is designed for applications where the web is wider than the strobeoscope installed. The coverage is up to 400 mm wider (at 1 m distance) than the installed strobeoscope.



H-SERIES FLOOD COVERAGE

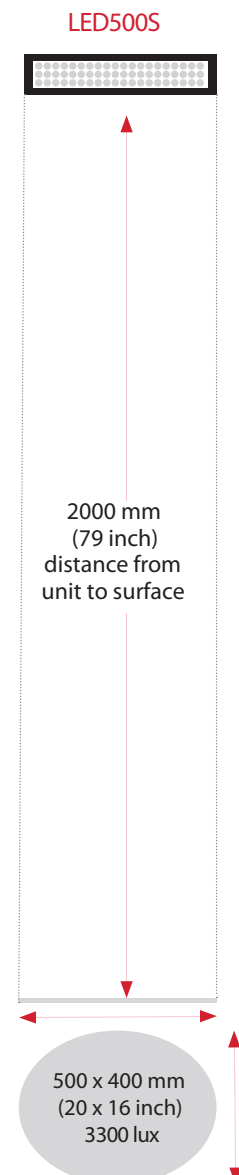
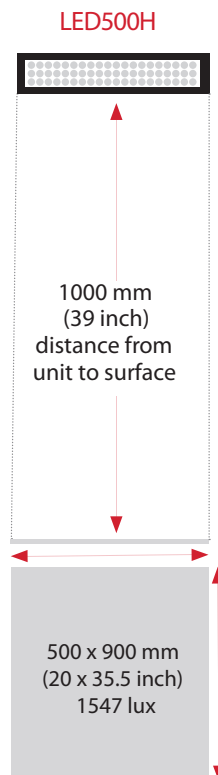
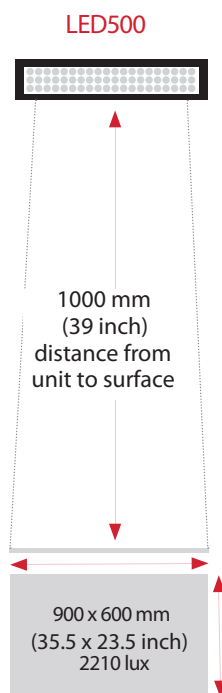
The LED2000 with vertical flood coverage is designed for applications that require a large field of inspection in the direction of movement. The covered width is only slightly wider than the width of the strobeoscope.



SPOT COVERAGE

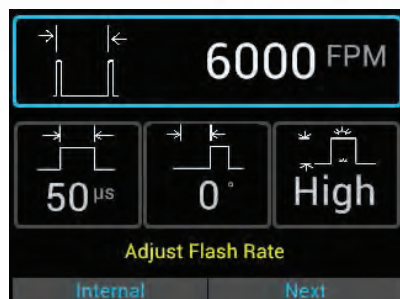
The LED2000 with spot coverage is designed to illuminate surfaces at a larger distance. The focused lenses result in a concentrated light with higher output at a distance.

For an example, coverage of model 500 in all three versions:



NOTE - Larger areas can be illuminated by placing the light further away and controlling ambient lighting. Unilux recommends strobe lighting levels be at least 4 times brighter than the ambient lighting to avoid ghosting.

EASY TO USE GRAPHIC INTERFACE MAKES PRECISION SIMPLE



Dashboard screen provides easy access to duration, phase and intensity.

Harness the full power of your Unilux LED stroboscopic inspection system with Smart Assist™ - a control system that goes beyond codes and numeric readouts to guide a user through set up and operation, making it easier than ever to see your process in crisp, clear detail at full production speed.

- On-screen help and instructions are provided for every setting, reducing the time needed to configure the system
- Available in multiple languages to accommodate global operations
- Control settings like intensity, frequency and duration with scientific precision
- Simple dashboard screen shows all critical settings at a single glance
- Full color display, high-contrast text and multi-function smart keys make it easy to move through the customization of each setting when needed
- Easily access advanced configurations like **Cross Light Inspection** for surface quality or the ability to view standard and UV-visible inks on the same line

For direct observation of defects at full production speed, stroboscopic inspection can't be beat. After the work of selecting the proper strobes, setup and operation become the greatest hurdles to efficient operation. Smart Assist makes it easy to adjust settings for factors such as line speed and type of process (print quality or surface quality) so that an inspector can view fine detail in any high-speed process as if it's standing still.

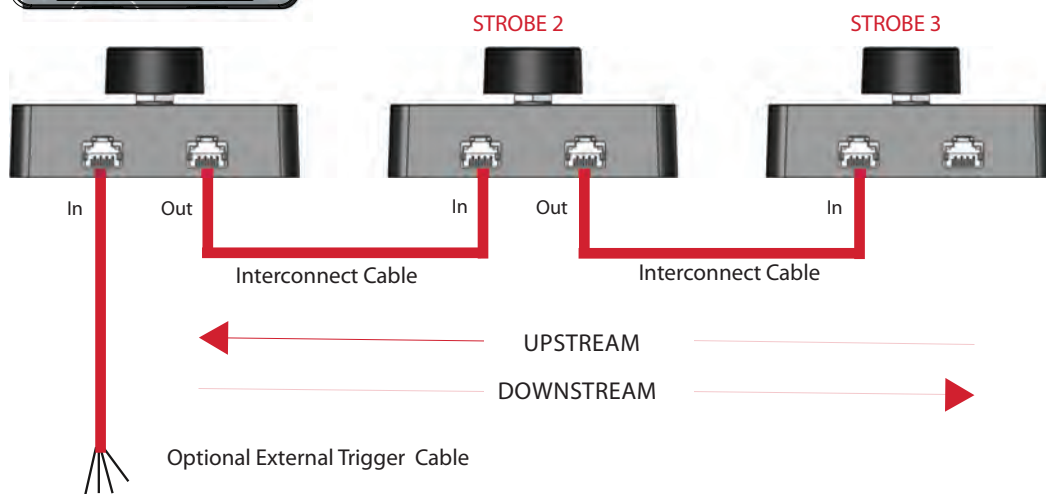
MULTI-STROBE CONFIGURATION

STROBE 1









Unilux LED2000 Series strobes can be chained together in a network with or without a remote control for advanced inspection techniques like Cross Light Inspection or the ability to view standard and UV-visible inks on the same line.

Networking allows the strobes to operate synchronously with each other and enables control of all of the strobes from a single point on the network.



AVAILABLE SIZES/MODELS

The LED2000 family includes many models covering widths of 250 mm to 2.9 meters.

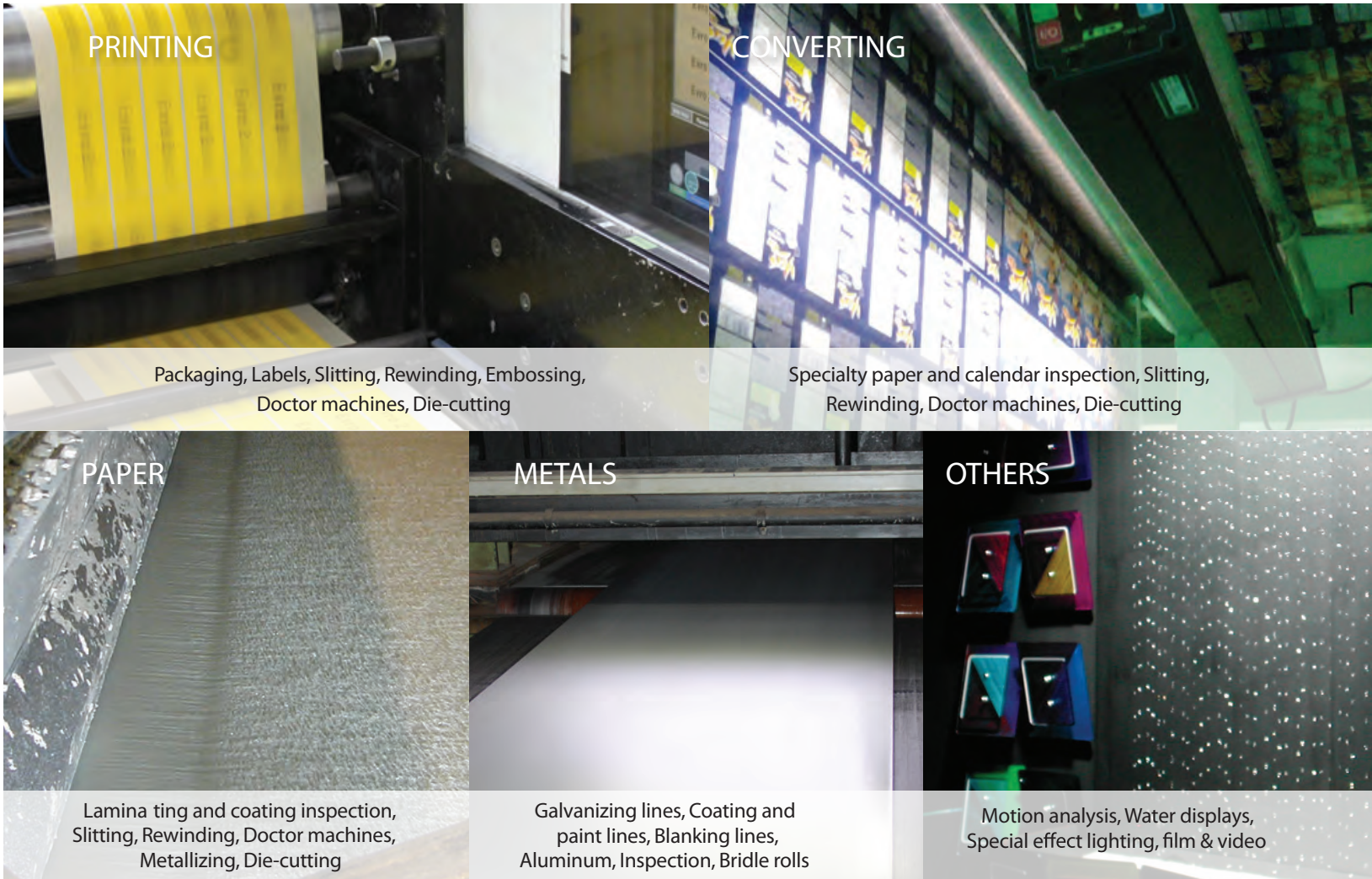
	STANDARD	H-SERIES	SPOT
	ILLUMINATION AREA AT A DISTANCE OF		
	100cm (39 inch)	100cm (39 inch)	200cm (79 inch)
 250 For use on dark backgrounds & photographs	400 x 300 mm (15.75 x 12 inch) 1070 lux	N/A	450 x 450 mm (18 x 18 inch) 1000 lux
 500	900 x 600 mm (35.5 x 23.5 inch) 2210 lux	500 x 900 mm (20 x 35.5 inch) 1547 lux	500 x 400 mm (20 x 16 inch) 3300 lux
 1000	1400 X 600 mm (55 x 23.5 inch) 3510 lux	1000 X 900 mm (40 x 35.5 inch) 2457 lux	1000 x 400 mm (40 x 16 inch) 3500 lux
 1500	1900 x 600 mm (75 x 23.5 inch) 3770 lux	1500 x 900 mm (59 x 35.5 inch) 2639 lux	1500 400 mm (59 x 16 inch) 3600 lux
 2000	2400 x 600 mm (95 x 23.5 inch) 3800 lux	2000 x 900 mm (79 x 35.5 inch) 2660 lux	2000 x 400 mm (79 x 16 inch) 3600 lux
 2500	2900 x 600 mm (115 x 23.5 inch) 3800 lux	2500 x 900 mm (98 x 35.5 inch) 2730 lux	2500 x 400 mm (98 x 16 inch) 3600 lux

Note: LED2000 series also available as UV version.

SPECIFICATIONS

Model/Part Number	250	500	1000	1500	2000	2500
Standard	03-1239-250	03-1239-500	03-1239-1000	03-1239-1500	03-1239-2000	03-1239-2500
H Model	N/A	03-1239-500H	03-1239-1000H	03-1239-1500H	03-1239-2000H	03-1239-2500H
S Model	03-1239-250S	03-1239-500S	03-1239-1000S	03-1239-1500S	03-1239-2000S	03-1239-2500S
Power Requirements						
Watts Max	65	135	270	405	540	675
Amps Max (@100V)	0.85	1.5	3.0	4.5	6.0	7.5
Flash Rates						
Internal Mode	30-99,999 F/M					
External Trigger Mode	30-99,999 F/M					
Encoder Mode	30-99,999 F/M					
Flash Duration	2 uSec to 1% of the flash period capped at 100 μSec					
External Trigger Source						
Pulse (TTL) & Open Collector	4.5V min - 40V max @ 10 mA 500nSec min pulse width					
Contact Closure	15V and Ground Supplied 500 nSec min pulse width					
Physical Dimensions						
Length	285 mm (11 inch)	513 mmn (20 inch)	970 mm (38 inch)	1428 mm (56 inch)	1885 mm (74.5 inch)	2342 mm (92 inch)
Width	114 mm (4.5 inch)	114 mm (4.5 inch)	114 mm (4.5 inch)	114 mm (4.5 inch)	114 mm (4.5 inch)	114 mm (4.5 inch)
Height	155 mm (6 inch)	155 mm (6 inch)	155 mm (6 inch)	155 mm (6 inch)	155 mm (6 inch)	155 mm (6 inch)
Weight	2.5kg (5.5 lbs)	4.2kg (9.5 lbs)	7.6kg (16.5 lbs)	11.0kg (24.5 lbs)	14.4kg (32 lbs)	17.8kg (39.5 lbs)
Environmental						
Operating Temperature	32°F to 104°F/0°C to 40°C					
Humidity	95% noncondensing					

APPLICATIONS



Whether you are looking to inspect a narrow area of just a few centimeters, or a line that is multiple meters wide, LED2000 Series Stroboscopic Inspection Systems meet your requirements, with models that are the brightest, highest quality lights to choose from. These high quality inspection strobes can be used in countless applications control settings like flash rate, flash duration and intensity with scientific precision.

- ⊗ Brighter, more uniform light enables identification of the smallest defects
- ⊗ White light approaching the visible spectrum of sunlight reveals true colors
- ⊗ Adjustable flash duration from 2 to 100 μ Sec maximizes detailed inspection capabilities
- ⊗ Automatic synchronization to a system's line speed from pulse, open collector and contact closure external signals

ACCESSORIES

REMOTE
CONTROL



ANALOG LINE
SPEED CABLE



ROTARY
ENCODER



REMOTE CONTROL

Have the same functionality as the LED2000 Series control panel in the palm of your hand.

ANALOG LINE SPEED CABLE

Synchronize the flash rate to your line speed using industry standard 0-10V or 4-20mA signaling.

ROTARY ENCODER

Instantly and automatically synchronize flash rate to material speed. The rotary encoder provides a signal to the strobe that is proportional to the speed of the web.

INTERCONNECT CABLE

Use the Interconnect Cable to create a network of multiple strobes and enable control of those strobes from a common master or from an optional remote control.

TRIGGER INPUT CABLE

Use the Trigger Input Cable to synchronize a strobe's flash to an external trigger signal from devices such as gap or registry sensors, etc.