

LED2000

SERIES STROBOSCOPIC INSPECTION

CONFIRM QUALITY INSTANTLY ACROSS THE LINE

See your process in crisp, clear detail at full production speed with LED2000 Series Wide Web Inspection Systems featuring Smart Assist controls.

- 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.



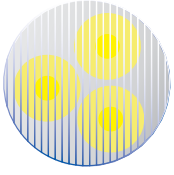
LED2000
SERIES

APPLICATIONS

- Print quality and registration
- Cut quality
- Adhesive and coating coverage
- Surface quality



THREE TYPES OF LENSES



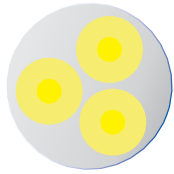
WIDE HORIZONTAL FLOOD COVERAGE

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



HIGH VERTICAL FLOOD COVERAGE

The LED2000 series 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 stroboscope.



SPOT COVERAGE

The LED2000 series 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.

STANDARD



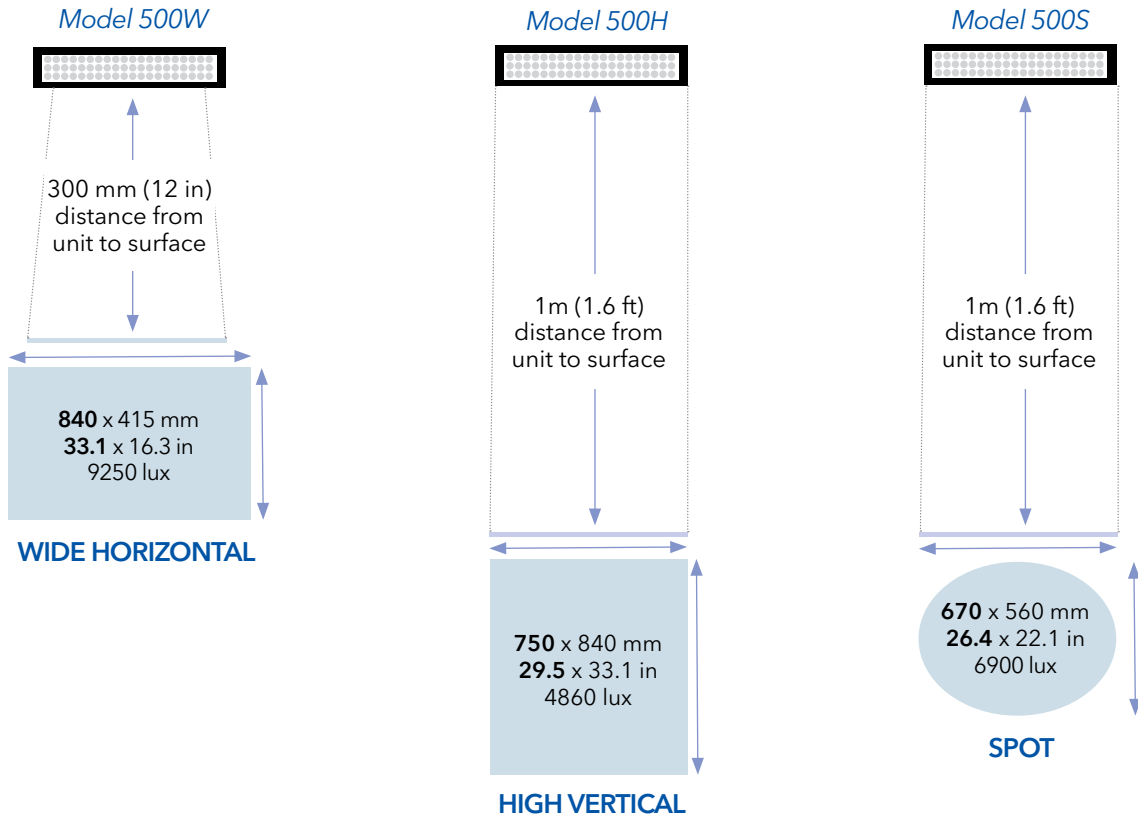
H-SERIES



SPOT



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.

AVAILABLE SIZES/MODELS

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

	WIDE	HIGH	SPOT
COVERAGE AREA AND ILLUMINATION			
ILLUMINATION AT A DISTANCE OF >>	300 mm (1.6 ft)	--	600 mm (2 ft)
MODEL 250	450 x 360 mm 17.7 x 14.2 in 8230 lux	N/A	470 x 380 mm 18.5 x 15.0 in 7210 Lux
ILLUMINATION AT A DISTANCE OF >>	1 m (3.3 ft)	1 m (3.3 ft)	1 m (3.3 ft)
MODEL 500	1035 x 600 mm 40.7 x 23.6 in 5550 lux	750 x 840 mm 29.5 x 33.1 in 4860 lux	670 x 560 mm 26.4 x 22.1 in 6900 lux
MODEL 1000	1585 x 675 mm 62.4 x 26.6 in 6950 lux	1200 x 1065 mm 47.2 x 41.9 in 6230 lux	1220 x 650 mm 48.1 x 25.6 in 7120 lux
MODEL 1500	2040 x 725 mm 80.3 x 28.5 in 7050 lux	1625 x 1190 mm 63.9 x 46.9 in 6630 lux	1680 x 680 mm 66.1 x 26.7 in 7150 lux
MODEL 2000	2455 x 765 mm 96.6 x 30.1 in 7125 lux	2090 x 1260 mm 92.3 x 49.6 in 6850 lux	2105 x 700 mm 82.9 x 27.5 in 7200 lux
MODEL 2500	2835 x 795 mm 111.6 x 31.3 in 7175 lux	2560 x 1300 mm 100.8 x 51.2 in 6930 lux	2530 x 715 mm 99.6 x 28.1 in 7200 lux

SPECIFICATIONS

Note: LED2000 series also available as UV version.

Model/Part Number	250	500	1000	1500	2000	2500
Wide Horizontal	03-1283-250	03-1283-500	03-1283-1000	03-1283-1500	03-1283-2000	03-1283-2500
(H) High Vertical	N/A	03-1283-500H	03-1283-1000H	03-1283-1500H	03-1283-2000H	03-1283-2500H
(S) Spot	03-1283-250S	03-1283-500S	03-1283-1000S	03-1283-1500S	03-1283-2000S	03-1283-2500S
Color Rendering Index	CRI 75					
Color Temperature	6,500 Kelvin					
Power Requirements	100 to 240 VAC 50/60 Hz					
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 - 99999 F/M					
External Trigger Mode	0-99999 F/M					
Encoder Mode	30-99999 F/M					
Flash Duration	2 μs to 1% of the flash period capped at 100 μs					
External Trigger Source	0 - 1666.65 Hz					
Pulse TTL) & Open Collector	4.5V min - 40V max @ 10 mA 500μSec min pulse width					
Contact Closure	15V and Ground Supplied 500 μs min pulse width					
Physical Dimensions	250	500	1000	1500	2000	2500
Length	285 mm 11.2 in	513 mm 20.2 in	970 mm 38.2 in	1428 mm 56.2 in	1885 mm 74.2 in	2342 mm 92.2 in
Width	99 mm 3.9 in	114 mm 4.5 in	114 mm 4.5 in	114 mm 4.5 in	114 mm 4.5 in	114 mm 4.5 in
Height	155 mm 6.1 in	155 mm 6.1 in	155 mm 6.1 in	155 mm 6.1 in	155 mm 6.1 in	155 mm 6.1 in
Weight	2.5kg 5.5 lbs	4.2kg 9.2 lbs	7.6kg 16.7 lbs	11.0kg 24.2 lbs	14.4kg 31.7 lbs	17.8kg 39.2 lbs
Environmental						
Operating Temperature	32°F to 104°F/0°C to 40°C					
Humidity	0-95% noncondensing					

ACCESSORIES

REMOTE CONTROL



REMOTE CONTROL

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

ANALOG LINE SPEED CABLE



ANALOG LINE SPEED CABLE

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

ROTARY ENCODER



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.

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.

