



ACHIEVE CRYSTAL CLEAR DETAIL, ANYWHERE IN YOUR PRODUCTION PROCESS.

Unilux handheld stroboscopic lights allow you to quickly confirm quality and spot product imperfections anywhere on the line.

Each model provides powerful output to inspect fine detail in any location now made even easier by units that are one-third lighter than previous models. An adjustable flash rate and flash duration make it easy to synchronize with the speed of motion so you can inspect quality, reduce waste, and deliver the quality product that your customers are expecting. These portable units come in flood, spot and UV versions.

APPLICATIONS

Printing	Converting	Paper	Metals	Textiles
Inspection of print quality and registration, folding alignment, security print inspection and embossing quality	Trimmed edge and performance analysis Surface inspection of adhesive and coatings Die-to-die registration	Inspection of felt & wire, formation, dewatering, turbulence, bearings & gears, surface quality	Pinpoint the location and cause of surface defects	Inspection of weaving, spinning, drawing of thread or yarn

KEY FEATURES

- Range of coverage options: From tight spaces to wide open areas
- Exceptional brightness and precise control over settings to quickly and consistently spot defects
- High quality, durable metal construction
- For maintenance & portable inspection
- Different types of lenses available: Standard-FLOOD and SPOT coverage. Please ask for LED-UV strobes in case you want to inspect security elements.





LED1

The bright stroboscope that fits in any pocket

On-site inspection of small areas - that is the specialty of the LED1. This handy stroboscope is designed for narrow web inspection, but also for maintenance and troubleshooting, e.g. machine parts.

Model number	03-1249	
Battery run time	up to 4 hours	
Light output (in 30 cm distance)	1,940 lux	
Coverage (in 30 cm distance)	125 mm Ø	
Flash rate	300 - 50,000 flashes per minute	
Flash duration	10 μs to 1% of the flash period capped at 100 μs	
Size	147 x 89 x 25 mm	
Weight	0.3 kg	

LED3

Inspection light all-arounder for almost every application

For inspection in narrow spaces, the LED3 is twice as bright as prior models. A compact, lightweight design makes it ideal for narrow web inspection to ensure print, registration and slit quality. Available in standard flood and spot coverage.

	STA	NDARD FLOOD cove	rage	SPOT coverage	
Model number		03-1281-DC-F		03-1281-DC-S	
Light output (in 30 cm of	listance)	3,950 lux		6,440 lux	
Coverage (in 30 cm of	distance)	290 x 195 mm		170 x 175 mm	
Battery run times		up to 3 hours (w/2Ah battery) up to 7 hours (w/5Ah battery)			
Flash rate		30 - 50,000 flashes per minute			
Flash duration		2 μs to 1% of the flash period capped at 100 μs			
Size (w/2Ah bat	ttery)	132 x 107 x 234 mm			
Weight (w/2Ah battery)		1.1 kg			



LED9

The brightest, lightest, most efficient inspection light in its class

The LED9 is perfectly suited for inspection in narrow spaces. With its exceptionally bright light, you wil be able to see clear detail at full production speed. Available in standard flood and spot coverage.

		STANDARD FLOOD coverage	SPOT coverage
Model num	ber	03-1282-DC-F	03-1282-DC-S
Light output	t (in 60 cm distance)	1,300 lux	2,300 lux
Coverage	(in 60 cm distance)	560 x 340 mm	310 x 290 mm
Battery run times		up to 2.5 hours (w/2Ah battery) up to 6.0 hours (w/5Ah battery)	
Flash rate		30 - 50,000 flashes per minute	
Flash duration		2 μs to 0.5% of the flash period capped at 100 μs	
Size (w/2Ah battery)		132 x 107 x 234 mm	
Weight (w/2Ah battery)		1.1 kg	





LED**12**

Crystal clear inspection at a distance

Solve your production and inspection problems close to their source. The LED12 has twice the light output of its predecessor and offers higher performance levels.

Model number	03-1266-DC-S	
Battery run time	up to 2 hours (w/2Ah battery) up to 4 hours (w/5Ah battery)	
Light output & coverage		
in 60 cm distance in 90 cm distance	360 x 370 mm / 7,050 lux 465 x 485 mm / 3,850 lux	
Flash rate	30 - 99,999.9 flashes per minute	
Flash duration	2 μs to 1% of the flash period capped at 100 μs	
Size & Weight		
w/2Ah battery w/5Ah battery	211 x 119 x 284 mm / 1,8 kg 211 x 119 x 304 mm / 2,0 kg	
Triggering	Pulse (TTL), open collector or contact closure	



LED**27**

Powerful and extremely versatile

It is the only portable inspection strobe that features Smart Assist graphic interface for easy operation in multiple languages. Rugged metal construction ensures that the LED27 is ready to perform when you need to take it out on the line.

	FLOOD coverage	SPOT coverage	
Model number	03-1251-DC-F	03-1251-DC-S	
Light output (in 60 cm distance)	1,900 LUX	8,250 LUX	
Coverage (in 60 cm distance)	750 x 520 mm	390 x 370 mm	
Flash rate	30 - 99,999.9 flashes per minute		
Flash duration	2 μs to 1% of the flash period capped at 100 μs		
Size & weight	146 x 106 x 296 mm / 2.1 kg (w/5Ah battery)		
Triggering	Pulse (TTL), open collector or contact closure		



Spot

LED**BEACON**

Detect paper formation problems anywhere in the papermill

A versatile inspection strobe light ideal for evaluating dozens of functions in the paper manufacturing process to ensure quality of the end product. Efficient, clear evaluation of all high-speed operations of the paper machine at any distance required.

Model number	03-1254-DC-S-IP	
Battery run time	up to 1.5 hour (w/5Ah battery)	
Light output & coverage		
in 1.0 meter distance in 2.0 meters distance in 4.6 meters distance	400 mm Ø / 683 lumen 800 mm Ø / 683 lumen 1500 mm Ø / 683 lumen	
Flash rate	30 - 99,999.9 flashes per minute	
Flash duration	2 μs to 0.5% of the flash period capped at 100 μs	
Size & Weight	184 x 119 x 304 mm / 2,1 kg (w/5Ah battery)	
Triggering	Video, pulse (TTL), open collector or contact closure	



LOL**5**

Rugged, lightweight and easy to use

This powerful light supplies bright, sharp, even illumination. The LOL-5's rugged design holds up in all types of operations.

Model number	03-1262-DC	
Light output (in 30 cm distance)	645 lux	
Coverage (in 30 cm distance)	400 x 300 mm	
Flash rate	30 - 6,000 flashes per minute	
Flash duration	20 µs	
Size & Weight	135 x 140 x 268 mm / 1.48 kg (w/2Ah battery)	
Triggering	Pulse source, contact closure or open collector	



MITI-LITE

Spot checking and pinpointing defects over a wide area

The Miti-Lite illuminates the largest area of any portable Xenon strobe. So inspecting for surface quality, formation activity, and coating defects, or pinpointing defect origins can be done any-where on the line.

Model number	03-1118-VC	
Light output (in 1000 mm distance)	900 lux	
Coverage (in 760 mm distance)	760 x 760 mm	
Flash rate	30 - 18,000 flashes per minute	
Flash duration	20 µs	
Size & Weight	168 x 162 x 333 mm / 2.1 kg (w/5Ah battery)	
Triggering	Video 1Vpp unterminated, pulse source or contact closure	



HEADQUARTER AND FACTORY

UNILUX INC Saddle Brook, NJ 07663, USA (t) +1-201-712-1266 unilux@unilux.com

GLOBAL OFFICES

UNILUX EUROPE GMBH

40627 Düsseldorf, Germany (t) +49-211-28071171 info@unilux-europe.eu

UNILUX CHINA

Shanghai, 200135, China (t) +86-021-68552511 joezhao@unilux.com UNILUX ASIA

Bangkok, 10110, Thailand (t) +66-086-977-1303 kirk@unilux.com

UNILUX INDIA

New Dehli – 110059, India (t) +98-1899-6772 ashwani@unilux.com

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FIXED MOUNT WHITE STROBOSCOPIC INSPECTION LIGHTS

ACHIEVE CRYSTAL CLEAR DETAIL OF SURFACE AND PRINT QUALITY AT FULL PRODUCTION SPEED.

Whether you are looking to inspect a narrow area of just a few centimeters, or a line that is multiple meters wide, Unilux has a fixed mount stroboscope to meet your requirements. Over a dozen models that are the brightest, highest quality lights to choose from. These high-quality inspection strobes can be used in countless applications with powerful features like adjustable flash rate and flash duration, softer light for highly reflective surfaces and smaller size for more flexible mounting options.



APPLICATIONS

Printing

Inspection of print quality and registration

Folding alignment

Security print inspection

Embossing quality

Converting

Trimmed edge and performance analysis

Surface inspection of adhesive and coatings

Die-to-die registration

Cut quality on slitter/rewinder and doctor machines

Paper

Specialty paper and calender inspection

Cut quality in finishing sections

Metals

Surface inspection of galvanizing lines

Coating and paint lines

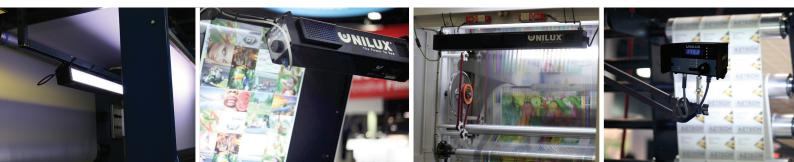
Aluminium lines

Bridle rolls

KEY FEATURES

- Range of coverage options: From tight spaces to wide open areas
- Exceptional brightness and precise control over settings to quickly and consistently spot defects
- High quality, durable metal construction
- For wider webs, multiple units can be daisy-chained together
- Different types of lenses available: Standard flood, vertical flood and spot coverage. Please ask for LED-UV strobes in case you want to inspect security elements.

LED2000series (model 250 to 2500)



LED3

Lighter, brighter with ultimate flexibility and affordability

For inspection in narrow spaces, the LED3 is twice as bright as prior models. A compact, lightweight design makes it ideal for narrow web inspection to ensure print, registration and slit quality. Available in standard flood and spot coverage.

	STANDARD FLOOD coverage	SPOT coverage	
Model number	03-1281-F	03-1281-S	
Light output (in 30 cm distance)	3,950 lux	6,440 lux	
Coverage (in 30 cm distance)	290 x 195 mm	170 x 175 mm Ø	
Flash rates	30-50,000 flashes per minute		
Flash duration	2 μs to 1% of the flash period capped at 100 μs		
Pulse (TTL) & open collector	3.5V - 40V @ 10 mA 500ns min pulse width		
Size	127 x 102 x 63.5 mm		
Weight	0.5 kg		



LED9

The brightest inspection light in its class

The LED9 provides brighter, more concentrated even illumination than any inspection light of its size. Adjust flash frequency and duration to sync to line speeds, achieve crisp detail and effectively pinpoint the smallest defects. Available in standard flood and spot coverage.

	STANDARD FLOOD coverage	SPOT coverage	
Model number	03-1282-F	03-1282-S	
Light output (in 60 cm distance)	1,300 lux	2,300 lux	
Coverage (in 60 cm distance)	560 x 340 mm	310 x 290 mm	
Flash rates	30-50,000 flashes per minute		
Flash duration	2 μs to 0.5% of the flash period capped at 100 μs		
Pulse (TTL) & open collector	3.5V - 40V @ 10 mA 500ns min pulse width		
Size	127 x 102 x 63.5 mm		
Weight	0.5 kg		



LED**27**FM

Specifically designed to meet OEMs needs

The LED27 is the perfect combination of form and function; exceptionally bright coverage in a compact strobe that's easy to use. Smart Assist™ graphic controls make it easy for any user to set up and operate with all controls and on-screen instructions in their language. Runs on 24VDC machine power to eliminate a separate 110/220V AC supply.

	STANDARD FLOOD coverage	SPOT coverage	
Model number	03-1251-F	03-1251-S	
Light output (in 60 cm distance)	1,900 lux	8,250 lux	
Coverage (in 60 cm distance)	750 x 520 mm	390 x 370 mm	
Flash rates	30-99,999 flashes per minute		
Flash duration	2 μs to 1% of the flash period capped at 100 μs		
Pulse (TTL) & open collector	3.5V - 40V @ 10 mA 500ns min pulse width		
Size	126 x 153 x 106 mm		
Weight	1.3 kg		





FIXED MOUN WHITE STROBOSCOPIC INSPECTION LIGHTS

LED**250**

This model is the smallest one of the powerful LED2000series

The perfect combination of new technology, compact design and advanced features to make stroboscopic surface and print inspection even more effective. Comes with easy to use graphic interface Smart Assist™ - an operating platform that simplifies setup and operation while making it even easier to access powerful features and advanced functions.

	STANDARD FLOOD coverage		SPOT coverage
Model number	03-1239-250		03-1239-250 S
Light output & coverage	in 30 cm distance	in 100 cm distance	in 200 cm distance
	250 x 200 mm 9,300 lux	700 x 430 mm 1,430 lux	800 x 800 mm 820 lux
Flash rates	30 - 99,999 flashes per minute		
Flash duration	2 μs to 1% of the flash period capped at 100 μs		
External trigger source	0 Hz to 1666.65 Hz		
Pulse (TTL) & open collector	4.5V - 40V @ 10 mA 500ns min pulse width		
Size & weight	285 x 114 x 155 mm / 2.5 kg		



Second model of LED2000series for medium web inspection

Its extremely bright LEDs allow detection of the smallest defects such as roller marks, bubbles, incl fac

face Smart Assist [™] - a control system that intuitively guides the user through set-up and operation.					
	STANDARD FLOOD coverage		VERTICAL FLOOD coverage		SPOT coverage
Model number	03-1283-500		03-1283-500 H		03-1283-500 S
Light output & coverage	in 30 cm distance in 100 cm distance in 30 cm distance in 100 cm dist			in 100 cm distance	in 100 cm distance
	840 x 415 mm 9,250 lux	1035 x 675 mm 5,550 lux	640 x 605 mm 8,800 lux	750 x 840 mm 4,860 lux	670 x 560 mm 6,900 lux
Flash rates	30 - 99,999 flashes per minute				
Flash duration	2 μs to 1% of the flash period capped at 100 μs				
External trigger source	0 Hz to 1666.65 Hz				
Pulse (TTL) & open collector	4.5V - 40V @ 10 mA 500ns min pulse width				
Size & weight	513 x 114 x 155 mm / 4.2 kg				

LED**1000**

Third model of LED2000series for wide width inspection

Powerful inspection across the entire width. At a meter from the target, it covers an area of 1,585 x 675 mm allowing you to inspect the entire surface at once. Comes with easy to use graphic interface Smart Assist™.



	STANDARD FLOOD coverage		VERTICAL FLOOD coverage		SPOT coverage
Model number	03-1283-1000		03-1283-1000 H		03-1283-1000 S
Light output & coverage	in 30 cm distance	in 100 cm distance	in 30 cm distance	in 100 cm distance	in 100 cm distance
	1,325 x 435 mm 9,220 lux	1,585 x 675 mm 6,950 lux	1,095 x 695 mm 8,800 lux	1,200 x 1,065 mm 6,230 lux	1,220 x 650 mm 7,120 lux
Flash rates	30 - 99,999 flashes per minute				
Flash duration	2 μs to 1% of the flash period capped at 100 μs				
External trigger source	0 Hz to 1666.65 Hz				
Pulse (TTL) & open collector	4.5V - 40V @ 10 mA 500ns min pulse width				
Size & weight	970 x 114 x 155 mm / 7.6 kg				





FIXED MOUNT WHITE STROBOSCOPIC INSPECTION LIGHTS

LED**1500**

Fourth model of LED2000series for wide width inspection

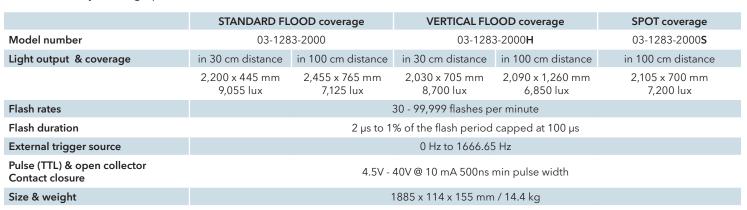
Powerful inspection across the entire width. At a meter from the target, this strobe covers an area of 2,040 x 725 mm allowing you to inspect the entire surface at once. Comes with easy to use graphic interface Smart Assist™.

	STANDARD FLOOD coverage		VERTICAL FLOOD coverage		SPOT coverage
Model number	03-1283-1500		03-1283-1500 H		03-1283-1500 5
Light output & coverage	in 30 cm distance	in 100 cm distance	in 30 cm distance	in 100 cm distance	in 100 cm distance
	1,775 x 400mm 9,120 lux	2,040 x 725 mm 7,050 lux	1,550 x 700 mm 8,700 lux	1,625 x 1,190 mm 6,630 lux	1,680 x 680 mm 7,150 lux
Flash rates	30 - 99,999 flashes per minute				
Flash duration	2 μs to 1% of the flash period capped at 100 μs				
External trigger source	0 Hz to 1666.65 Hz				
Pulse (TTL) & open collector Contact closure	4.5V - 40V @ 10 mA 500ns min pulse width				
Size & weight	1428 x 114 x 155 mm / 11.0 kg				

LED**2000**

Fifth model of LED2000series for wide width inspection

Powerful inspection across the entire width. At a meter from the target, this strobe covers an area of 2,455 x 765 mm allowing you to inspect the entire surface at once. Comes with easy to use graphic interface Smart Assist™.



LED**2500**

The sixth and largest model of LED2000series for extra wide width inspection

Powerful inspection for large widths. At a meter from the target, this strobe covers an area of 2,835 x 795 mm allowing you to inspect the entire surface at once. Comes with easy to use graphic interface Smart Assist™.



	STANDARD FLOOD coverage		VERTICAL FLOOD coverage		SPOT coverage
Model number	03-1283-2500		03-1283-2500 H		03-1283-2500 S
Light output & coverage	in 30 cm distance	in 100 cm distance	in 30 cm distance	in 100 cm distance	in 100 cm distance
	2,600 x 450 mm 9,015 lux	2,835 x 795 mm 7,175 lux	2,520 x 710 mm 8,700 lux	2,560 x 1,300 mm 6,930 lux	2,530 x 715 mm 7,200 lux
Flash rates	30 - 99,999 flashes per minute				
Flash duration	2 μs to 1% of the flash period capped at 100 μs				
External trigger source	0 Hz to 1666.65 Hz				
Pulse (TTL) & open collector Contact closure	4.5V - 40V @ 10 mA 500ns min pulse width 15V and ground supplied 500ns min pulse width				
Size & weight	2342 x 114 x 155 mm / 17.8 kg				

NW**300**



Stroboscopic inspection for narrow web

The NW300 is the perfect combination of form and function, an efficient, affordable and compact strobe that's easy to use. Smart Assist™ controls make it easy for any user to set up and operate with all controls and on-screen instructions in their language. The NW300 was specifically designed for efficient inspection of labels and flexible packaging, gravure and flexo presses, doctor rewinders, slitters and laminators. Runs on 24VDC machine power. Can also be operated from 110/220V AC systems.

	STANDARD FLOOD coverage	
Model number	03-1293	
Peak Output	2870 Lux	
Coverage (in 30 cm distance)	510 x 525 mm	
Flash rates	30-99,999 flashes per minute	
Flash duration	2 μs to 1% of the flash period capped at 100 μs	
Pulse (TTL) & open collector	4.5V - 40V @ 10 mA 500ns min pulse width	
Size & weight	126 x 191 x 143 mm (yokes at vertical position) , 201 x 191 x 106 mm (yokes at horizontal position)	1.8 kg







Stroboscopic inspection for wide web

The WW1250 was specifically designed for efficient inspection of flexible packaging; on wide web gravure or flexo presses, doctor rewinders, slitters and laminators. The perfect combination of form and function; an efficient and compact strobe that is easy to use. Smart Assist™ controls make it easy for any user to set up and operate with all controls and on-screen instructions in their language. Runs on 24VDC machine power. Can also be operated from 110/220V AC systems.

	STANDARD FLOOD coverage		
Model number	03-1280		
Peak Output	2230 Lux		
Coverage (in 30 cm distance)	1250 x 315 mm		
Flash rates	30-99,999 flashes per minute		
Flash duration	2 μs to 1% of the flash period capped at 100 μs		
Pulse (TTL) & open collector	4.5V - 40V @ 10 mA 500ns min pulse width		
Size & weight	966 x 125 x 114 mm 5.9 kg		

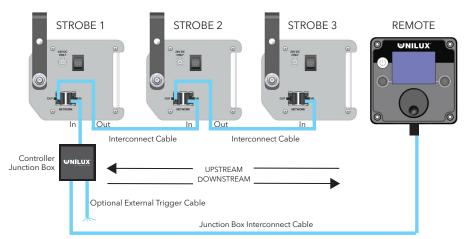
MULTI-STROBE CONFIGURATION

All Unilux stroboscopes with Smart Assist™ (a control system that intuitively guides the user through set-up and operation) can be chained together in a network with or without a remote control for advanced inspection techniques.

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

In this way, you are more flexible and can also illuminate larger widths if required by simply connecting the strobes together with interconnect cable(s), see figure.

The following strobes can be combined: LED27, NW300, WW1250, and all models of LED2000series and PULSAR.



FIXED MOUNT WHITE STROBOSCOPIC INSPECTION LIGHTS



These aren't just strobes

PULSAR is the only stroboscope that puts out this much light - more than enough to analyse motion from a safe distance. The ideal mix of power and compactness. PULSAR stroboscopes are **highly versatile** and perfectly suited for **applications with extreme or special requirements**.

Below is just a short selection of the applications in which these strobes are being used. If your application is not included, please get in touch with us.

Surface Inspection	Visualize production processes across a large distance or with bright environmental conditions for quality control at full production speed
Special effects & Illusions for film shoots, stage shows, and many more	Magic antigravity levitating water droplet, splashing liquide, wagon wheel effect (wheels rotating backwards, helicopter hovers like magic)
Aerospace	High speed, large area motion analysis
Wind Tunnel	Visualize behavior of fast-moving objects in a controlled environment
Cavitation	Visualize the action of ship propellers while operating
Sports	High speed analysis of athletic equipment to evaluate performance or motion sequence from a series recording, e.g. golf swing technique analysis
Fluid behavior	Valve and nozzle performance

	PULSAR 500S	PULSAR 1000S		
Model number	03-1264-500S	03-1264-1000S		
Peak output	17,510 lux	20,000 lux		
Light output (in 2 m distance)	5,140 lux	8,850 lux		
Coverage (in 2 m distance)	990 x 904 mm	1,280 x 905 mm		
Size	114 x 513 x 155 mm	114 x 914 x 155mm		
Weight	4.2 kg	7.6 kg		
Flash rates	30-99,999 flashes per minute			
Flash duration	2 μs to 1% of the flash period capped at 100 μs			
Pulse (TTL) & open collector	4.5V - 40V @ 10 mA 500ns min pulse width			

HARSH ENVIRONMENT ENCLOSURE

Inspection in the most challenging environments enabled by water-tight durable stainless steel enclosures. These housings allow full functionality of the strobe while providing full protection from harmful chemicals and cleaning processes. Bring the benefits of Unilux surface inspection to any area of production with water-tight durable stainless steel enclosures.



- Protected from water, oils, mist, and cleaning processes
- IP65 rated*
- Simple, fully protected access to water proof RJ45 connection ports
- Operating temperature: 0 60°C
- Available for strobe models:

LED500, LED1000, LED1500, PULSAR 500S and PULSAR 1000S

*) subject to air hoses used

Unilux Europe GmbH | Seeweg 20 | 40627 Düsseldorf | Germany | (t)+49 211 28071171 | info@unilux-europe.eu | www.unilux.com ©Unilux 2024 | V02.2024 | All rights reserved | Specifications subject to change without notice

