



Spectronics Corporation Inspection Lights



Pexa is the authorized distributor of Spectronics Corporation, the world leader in ultraviolet technology. Offering a full line of Spectrolite® high intensity LED inspection lamps and equipment designed to meet the growing demands of the non-destructive testing industry.

Our UV-A light sources have been proven ideal for fluorescent inspection, detecting and identifying surface and subsurface flaws, as well as visual liquid penetrant and magnetic particle inspection applications.

TRITAN™ 365 Series

Multi-LED, Broad-Beam UV-A Inspection Lamps

Featuring three ultra-hi-flux UV-A (365 nm) LEDs for fluorescent inspection, plus a white light LED to scan for surface flaws and illuminate dark spaces. Their broad-beam configuration provides a wide coverage area, while a compact design allows access into areas inaccessible to larger inspection lamps. Available in three models: high-intensity, standard-intensity with(out) integral black light filters. Also available in portable, battery-operated kits. Lamps meet ASTM UV-A intensity and wavelength specifications for LPT and MPT. The Tritan™ 365UVAD lamp complies with Rolls-Royce standard RRES90061.

EK-3000 EagleEye™

UV-A/White Light LED Inspection Kit

This palm-size, hands-free light source is ideal for fluorescent magnetic particle and penetrant testing. It features two-ultra-high intensity UV-A (365 nm) LEDs for inspection, plus a three-LED white light assembly for general illumination. Comes with an adjustable strap to allow the lamp to be worn on a hard hat or directly on the head for hands-free operation. Unique lamp mount/sprayer attachment permits lamp and spray can to be mounted together for convenient, single-handed fluorescent yoke inspection. Powered by a rechargeable lithium-ion battery.

AccuPro™ Series

Digital Radiometer/Photometers

These compact meters feature an advanced microprocessor-controlled readout unit calibrated to accurately measure and display both ultraviolet

(UV-A) and visible light readings, without the need to move the light source. Available in two versions: The AccuPro™ (XP-2000) features a single dual-wavelength sensor detector designed to measure both ultraviolet and visible light. The AccuPro™ Plus (XP-4000) features a single 3-in-1 multi-purpose sensor that measures UV-A, visible and blue light. Both units include a large, easy to read LCD screen with 4-digit autoranging display; a simple to use, three-button interface; and user-selectable, multilingual display settings.

UV-A LED Flashlights

Spectrolite® compact, rechargeable LED flashlights are specifically designed for NDT. These portable inspection lamps feature a powerful, high-intensity UV-A (365 nm) LED and a lightweight, yet rugged, anodised aluminum body. The full size OPTIMAX™ (OPX-365) delivers a UV-A intensity of 18,000 $\mu\text{W}/\text{cm}^2$ at 38 cm. The lamp is powered by a rechargeable NiMH battery that provides 90 minutes of continuous inspection between charges.

The OPX-365 features an Electronic Intensity Stabilizer to assure consistent performance and beam strength between charges. The super-compact OPTI-LUX™ 365 (OLX-365 Series) is powered by one rechargeable lithium-ion battery that provides 4 hours of continuous inspection on a single charge.

It is available in four models: high-intensity and standard-intensity, with(out) an internal black light filter. Each provides a uniform beam profile that surpasses those of more expensive lamps. OPTI-LUX™ flashlights meet ASTM UV-A intensity and wavelength specification for LPT and MPT.



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Specifications

TRITAN™ 365 Series			
Part Number	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm)	Visible light measurement	Diameter of UV-A coverage area at 15 inches (38 cm)
TRI-365HB High intensity, with clear filter	9,000 $\mu\text{W}/\text{cm}^2$	< 2 foot-candles (22 lux)	4 inch (10 cm)
TRI-365DB Standard intensity, with clear filter	< 5,000 $\mu\text{W}/\text{cm}^2$ maximum **	< 2 foot-candles (22 lux)	4 inch (10 cm)
TRI-365DDB Standard intensity, with integral black light filters	< 5,000 $\mu\text{W}/\text{cm}^2$ maximum **	< 2 foot-candles (22 lux)	4 inch (10 cm)

** To address aerospace industry concerns.

EagleEye™ Hands-Free Inspection Kit	
Part Number	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm)
EK-365	4,500 $\mu\text{W}/\text{cm}^2$

AccuPro™ Series Digital Radiometer/Photometers			
Part Number	Wavelength/Measurement Range		
XP-2000 AccuPro™ Dual Sensor (UV-A/VIS)	UV-A (365 nm) Irradiance	0-100 mW/cm ²	
	Visible (555 nm) Illuminance	0-5,382 Lux (0-500 fc)	
XP-4000 AccuPro™ Plus 3-in-1 Sensor (UV-A/VIS/Blue)	UV-A (365 nm) Irradiance	0-100 mW/cm ²	
	Visible (555 nm) Illuminance	0-5,382 Lux (0-500 fc)	
	Blue (450 nm)	0-100 mW/cm ²	
Spectral Range			
UV-A Sensor		320-400 nm	
Visible Sensor		460-675 nm	
Blue Light Sensor		410-475 nm	
Part Number	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm)	Visible light measurement	Diameter of UV-A coverage area at 15 inches (38 cm)
OPTIMAX™ 365 OPX-365 High intensity, with clear filter	18,000 $\mu\text{W}/\text{cm}^2$	< 2 foot-candles (22 lux)	–
OPTI-LUX™ 365 OLX-365 High intensity, with clear filter	10,000 $\mu\text{W}/\text{cm}^2$	0.8 foot-candles (8.6 lux)	2 inch (5.0 cm)
OPTI-LUX™ 365 OLX-365B High intensity, with internal black light filter	10,000 $\mu\text{W}/\text{cm}^2$	0.4 foot-candles (4.3 lux)	2 inch (5.0 cm)
OPTI-LUX 365™ OLX-365FL Standard intensity, with clear filter	4,500 $\mu\text{W}/\text{cm}^2$ maximum **	0.3 foot-candles (3.2 lux)	2.5 inch (6.3 cm)
OPTI-LUX™ 365 OLX-365BFL Standard intensity, with internal black light filter	4,500 $\mu\text{W}/\text{cm}^2$ maximum **	0.2 foot-candles (2.1 lux)	2.5 inch (6.3 cm)



Pexa is a supplier of high technology materials to the aerospace, defence, electronics and energy industries.

We are trusted partners of brand leading industrial product manufacturers; we employ progressive supply chain systems to deliver our promises. Our mission is to assist our customers to meet their own business objectives using our products and services; these products include surface finishing materials, aircraft maintenance products, application equipment and unique packaging solutions.

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