



E3022-15

RRES 90061

AMS 2647

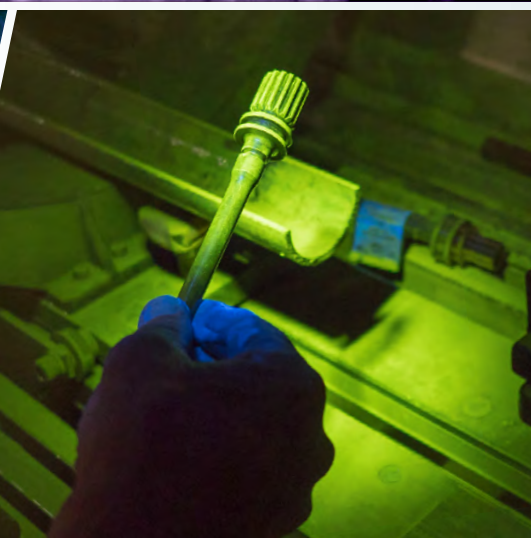
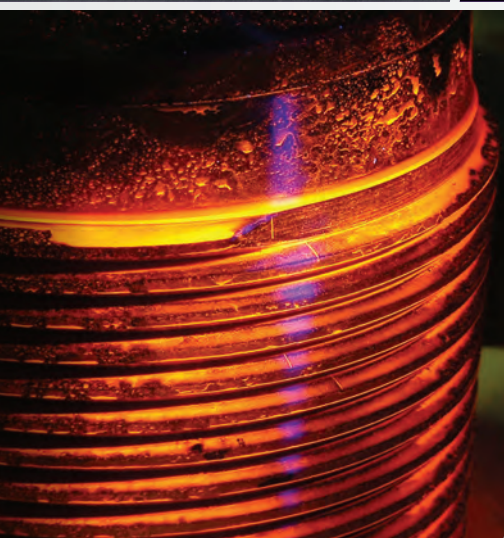
EN ISO 3059

CEN/TR 16638



NDT

FLUORESCENT INSPECTION PRODUCTS



- ▶ **NEW** IP RATED LAMPS
- ▶ LED UV-A LAMPS
- ▶ AEROSPACE COMPLIANT LAMPS
- ▶ LED BLUE LIGHT LAMPS
- ▶ OVERHEAD FLOOD LAMPS
- ▶ DIGITAL RADIOMETERS

Spectro-UV®

Setting the standard in NDT inspection lamps.

NDT plays a crucial role in everyday life. We are proud to manufacture the highest quality medium and high-intensity compliant inspection lamps and products for use in liquid penetrant and magnetic particle NDT.

Meeting the Standard in NDT:

Many of the Spectro-UV® brand products in this catalog are specifically engineered to meet ASTM E3022-15 and EN ISO:3059 standards. Additionally, we have developed many of our lamps to meet the strict requirements for RRES 90061 (Rolls-Royce), and to meet the regulations for safety in the Aerospace sector. Spectro-UV® remains at the forefront of developing safe NDT products for MPI and LPI around the world.

Global Leaders:

Our products are utilized for hundreds of markets and applications that demand uncompromising quality and reliability. Spectro-UV® lamps and radiometers are widely used by technicians in the field around the globe – including the military and aerospace sectors, as well as transportation, oil and gas, mining, fabrication, NDT inspection shops, alternative energy, and more.

NDT INDUSTRIES



AEROSPACE



ALTERNATIVE
ENERGY



AUTOMOTIVE



FABRICATION



MILITARY



MINING



NDT INSPECTION
SHOPS



OIL & GAS



PIPELINE



TRANSPORTATION/
RAILWAY

Our **ASTM** and **Rolls-Royce** compliant inspection lamps are *unmatched* in quality.



E3022-15

RRES
90061

AMS
2647

EN ISO
3059

CEN/TR
16638

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PROUD MEMBERS OF:



AccuPRO™ SERIES

Digital Radiometer/Photometers

The **AccuPRO™ XP-2000** readout unit features a single dual-wavelength sensor detector designed to measure both ultraviolet and visible light, and is compliant with ASTM 2297. The **AccuPRO™ Plus XP-4000** features a single 3-in-1 multi-purpose sensor that measures ultraviolet, visible and blue light.



KEY FEATURES:

- ▶ Overall accuracy greater than $\pm 5\%$ per NIST standards
- ▶ Superior band-pass interference filter provides excellent cosine response
- ▶ One-touch PEAK with reset functions
- ▶ User-defined power save and automatic shutoff
- ▶ Multi-wavelength sensor directly attached to meter by 3 ft (0.9 m) cord
- ▶ Convenient on-board recharging
- ▶ Powered by four rechargeable “AAA” nickel-metal hydride batteries (included)
- ▶ Comes complete with AC charger and padded carrying case

UV-A LIGHT	VISIBLE LIGHT	BLUE LIGHT
XP-2000 XP-4000	XP-2000 XP-4000	— XP-4000

MULTILINGUAL – now includes more languages. User-selectable, multilingual display settings at any operational level. Choose from English, French, German, and Spanish.



Technical Features

Readout Unit

Resolution	4-digit autoranging display
Screen	128 x 64 dot pixel chip on glass STN transmissive monochrome LCD 2.25 in (5.7 cm) diagonal illuminated (backlit)
Read Update	2 Hz
Overall Accuracy	Better than $\pm 5\%$ with reference to NIST standards
Temperature Coefficient	$\pm 0.025\%/^{\circ}\text{C}$ (0 to 50°C)
Power Requirements	Four "AAA" nickel-metal hydride batteries (rechargeable). AC charger included. <i>Available in 120V, 230V, 240V or 100V versions.</i>

Dimensions

Length	6.0 in (15.2 cm)
Width	3.0 in (7.6 cm)
Thickness	1.0 in (2.5 cm)
Weight	8 oz (227 g)

Sensor Detector

Length	3.0 in (7.6 cm)
Width	2.0 in (5.1 cm)
Thickness	0.5 in (1.3 cm)
Weight	5.6 oz (159 g)

Spectral Range

UV-A Sensor	320-400 nm
Visible Sensor	460-675 nm
Blue Light Sensor	410-475 nm (XP-4000 only)

**XP-2000 AccuPRO™
Dual Sensor (UV-A/VIS)**

Sensitive to UV and Visible Light

ASTM 2297
Compliant**Wavelength/Measurement Range**

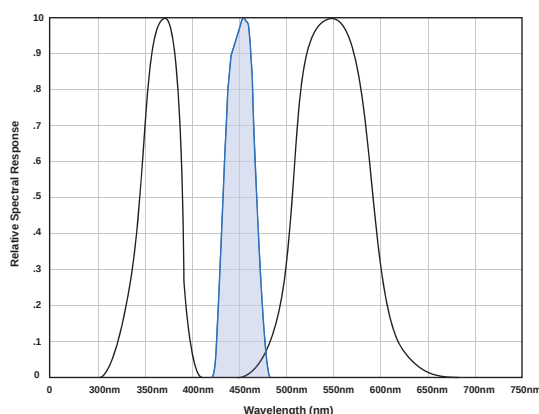
UV-A (365 nm) Irradiance	0-100 mW/cm ²
Visible (555 nm) Illuminance	0-5,382 Lux (0-500 fc)

**XP-4000 AccuPRO™ Plus
3-in-1 Sensor (UV-A/VIS/Blue)**

Sensitive to UV, Visible and Blue Light

Conforms to
CEN/TR 16638ASTM 2297
Compliant**Wavelength/Measurement Range**

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



The **AccuPRO™** meter features a dual wavelength UV/visible sensor, while the **AccuPRO™ Plus** (shown) features a 3-in-1 sensor that measures UV, visible and blue light.



AccuMAX™

Advanced Digital Radiometer/Photometer Kit

The MOST advanced, microprocessor-controlled readout system. The **AccuMAX™ XRP-3000** is compact, lightweight and battery-operated for convenient use in the factory, field or any other location where measurements need to be taken. Measures both ultraviolet and visible light. Complies with ASTM specifications for MPI and FPI and the ASTM 2297 standard. Specially engineered for NDT applications.



KEY FEATURES:

- ▶ Microprocessor-controlled readout unit with dual-wavelength sensor detector
- ▶ Superior bandpass interference filter
- ▶ Choice of direct or USB connection between sensor detector and readout unit
- ▶ Excellent cosine response
- ▶ Sealed sensor housing and USB connection with water-resistant adapter

MULTILINGUAL – now includes more languages. User-selectable, multilingual display settings at any operational level. Choose from English, French, German, and Spanish.



AccuMAX™ XS-555/L Luminance Sensor Detector

The perfect accessory for the AccuMAX Series meter. Ideal for technicians performing radiographic examinations. Meets ASTM E1742 standard.

The AccuMAX XS-555/L luminance sensor detector measures the brightness of a visible light source and, unlike many competitive units, allows the user the choice of displaying the results in three distinct units of measure: candelas per square meter (cd/m^2), candelas per square foot (cd/ft^2) and footlamberts (fL).



Dimensions

Height	3.2 in (8.1 cm)
Length	3.0 in (7.6 cm)
Width	2.1 in (5.3 cm)
Weight	6.4 oz (181 g)

Luminance Range

0 - 1,000,000 cd/m^2
0 - 90,000 cd/ft^2
0 - 285,000 fL



Technical Features

Readout Unit (XR-1000)

Resolution	4-digit autoranging display
Screen	128 x 64 dot pixel chip on glass STN transmissive monochrome LCD 2.25 in (5.7 cm) diagonal illuminated (backlit)
Sample Rate	7.5 Hz (single sensor) 15 Hz (dual sensor)
Read Update	2 Hz
Overall Accuracy	Better than $\pm 5\%$ with reference to NIST standards
Temperature Coefficient	$\pm 0.025\%/^{\circ}\text{C}$ (0 to 50°C)
Power Requirements	Two non-rechargeable 9V alkaline battery cells are included as standard

Dimensions

Length	7.75 in (19.7 cm)
Width	4.25 in (10.8 cm)
Thickness	1.25 in (3.2 cm)
Weight	0.8 lb (360 g)

Dual UV-A/Visible Sensor Detector (XDS-1000)

Irradiance Range

UV-A Sensor	0-100 mW/cm^2 (0-100,000 $\mu\text{W}/\text{cm}^2$)
Visible Sensor	0-5,300 lux (0-500 fc)

Spectral Range

UV-A Sensor	320-400 nm
Visible Sensor	460-675 nm

Dimensions

Length	4.75 in (12.1 cm)
Width	2.0 in (5.1 cm)
Thickness	7/8 in (2.2 cm)
Weight	0.22 lb (100 g)
USB Cable (Length)	5 ft (1.5 m)



XRP-3000 Kit Includes:

Water-resistant USB cable with adapter	XCB-100
Rubber boot	XRB-100
Carrying case	XCC-100



uVision™ 365 SERIES

Compliant, IP Rated, Fanless LED UV-A Lamps

The **uVision™ 365 SERIES** is Spectro-UV's innovative line of compact, broad-beam NDT handheld lamps. These lightweight yet rugged lamps boast an **IP65** rating – they are dust-tight and water resistant. Using a state-of-the-art heat sink design, the uVision™ is mechanically cooled without the need for a fan. In addition to three powerful UV-A (365 nm) LEDs, it has a convenient white light LED for illuminating work areas. Compliant versions have embedded microprocessors to keep lamps within specifications.

		UV-365SBLC	UV-365MSBLC*	UV-365HC	UV-365MHC	UV-365ZHC	UV-365ES*	UV-365EH	UV-365MEH	UV-365ZEH
TESTED TO COMPLY WITH	 Rolls-Royce RRES 90061 REQUIREMENTS									
	 ASTM E3022-15 STANDARD									
	 EN ISO 3059									
Nominal Steady-State UV-A Intensity at 15 in (38 cm)		< 5,000 µW/cm²		6,000 µW/cm²		8,000 µW/ cm2	< 5,000 µW/ cm²	7,000 µW/cm²		9,000 µW/ cm2
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²		6 in (15 cm) Diameter		6.4 in (16 cm) Diameter		7.5 in (19 cm) Diameter	6 in (15 cm) Diameter	7 in (18 cm) Diameter		7 in (17.8 cm) Diameter
Filter/Faceplate		Faceplate with integral UV-A pass filters				Standard faceplate				
Thermal Cut-Off Circuitry										
AC/DC Mobile Model										
Visible Light Measurement		< 1 foot-candles (11 lux)					< 2 foot-candles (22 lux)			

*These versions are adjusted to ensure that they provide a maximum steady-state UV-A intensity of less than 5,000 µW/cm² at 15 in (38 cm)
UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.

Each lamp is fitted with an 8-foot cord and the appropriate plug for the country of destination. An optional 20-foot cord is available. The "/20" suffix denotes the 20-foot power cord options.



Technical Features

Light Source:	(3) UV-A LEDs, (1) white light LED	White Light LED Intensity:	400 foot-candles (4,306 lux)
Lamp Style:	Pistol grip	Power Requirements:	100-120VAC / 12VDC*
Lamp Head Diameter:	3.5 in (9 cm)	Battery Pack:	Type: 12V, NiMH (rechargeable) Run time: 3.5 hours continuous Charge time: 2 hours
Height:	7.5 in (19 cm)		
Width:	3.5 in (8.9 cm)		
Weight:	1.9 lb (0.90 kg)		

*(Also available in 230V & 240V versions)



**Compliant
Versions***

**IP65
RATED**



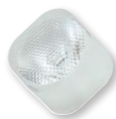
**Dust-Tight &
Water Resistant**



**Fanless &
Cool Running**



**Wide, Even
Beam Profile**



**LONG-LASTING
UV-A LENSES**
Reduce the rate
of solarization

3 UV-A LEDS
For wide area of
coverage

**Faceplate with
INTEGRAL UV-A
PASS FILTERS**
Reduce visible
wavelengths

**ADJUSTABLE
WHITE LIGHT LED**
Use to locate
surface flaws



BACK VIEW

**SEALED
CONTROL SWITCH**
Grip-mounted,
three-way rocker switch
(white light/off/UV)

**POWER/BATTERY
LIFE LIGHT**
Indicates power level

PISTOL GRIP
Comfortable,
balanced control

uVision™ 365 DELUXE Models*

THERMAL CUT-OFF CIRCUITRY

Prevents lamp from going
out of compliance when
internal temperature
exceeds specifications

*(SBLC model only)

FANLESS DESIGN

Maintains optimum lamp
temperature using state-of-
the-art heat sinks

uVision™ 365 ECONOMY Models

IP65 rated, compact, LED UV-A inspection lamps. Available in two different intensities. These cost-effective inspection lamps can be used in nondestructive evaluation, forensics, and security inspections.

- ▶ **3 UV-A LEDS** for wide area of coverage
- ▶ **WHITE LIGHT LED** allows for scanning surface flaws (not adjustable)
- ▶ **LONG-LASTING UV-A LENSES** reduce the rate of solarization
- ▶ **SEALED CONTROL SWITCH** grip-mounted, three-way rocker switch (white light/off/UV)
- ▶ **PISTOL GRIP** comfortable, balanced control
- ▶ **FANLESS DESIGN** maintains optimum lamp temperature using state-of-the-art heat sinks



Vintage™ 365

Handheld LED UV-A Inspection Lamp

The **Vintage™ 365 SPN-VIN365** is a pistol-grip lamp, with an external design based on Spectro-UV's best-selling classic HID-bulb lamps. Although the housing of the lamp showcases a throw-back design, the internal hardware is comprised of modern LED UV-A technology. The Vintage™ operates two powerful UV-A LEDs, providing a wide, uniform beam. Its nominal steady-state intensity is 5,500 $\mu\text{W}/\text{cm}^2$ at 15 inches (38 cm). The coverage area encompasses a large 6 inch (15.2 cm) diameter at 15 inches (38 cm), with a minimum UV-A intensity of 1,200 $\mu\text{W}/\text{cm}^2$.

		SPN-VIN365
MEETS SPECIFICATIONS	 EN ISO 3059	
Nominal Steady-State UV-A Intensity at 15 in (38 cm)		5,500 $\mu\text{W}/\text{cm}^2$
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 $\mu\text{W}/\text{cm}^2$		6 in (15.2 cm) Diameter
Visible Light Measurement		< 1 foot-candles (< 11 lux)

Technical Features

Light Source:	(2) UV-A (365 nm) LEDs
Lamp Style:	Pistol Grip
Dimensions (L x W x H):	7.1 x 5.0 x 9.5 in (18 x 12.7 x 24.1 cm)
Weight:	2.1 lbs (0.95 kg)
Power Requirements:	AC power (main AC power cord supplied with the unit)*
Cooling System:	Fanless

**(Also available in 100-120V and 220-240V versions)*

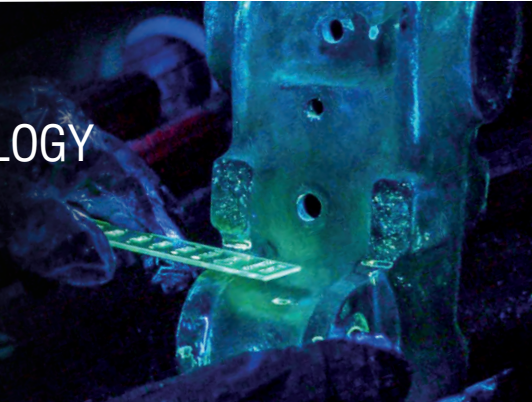
UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	RP-FP-01	Filter assembly
	RP-L-01	Lens replacement set



CLASSIC DESIGN
MODERN TECHNOLOGY
ECONOMIC PRICE

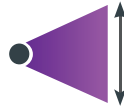




Vintage
Ergonomic
Design



Cost
Effective



Wide Beam
Profile



Fanless
Design



**CONTROL
SWITCH**

Grip-mounted,
rocker switch

**2 LONG-LASTING
LEDs PROTECTED
BY LENSES**

Wide coverage, reduced
rate of solarization

**CLASSIC
PISTOL GRIP**

Comfortable,
balanced control

TRITAN™ 365 SERIES

LED UV-A Handheld Lamps

TRITAN™ 365 SERIES NDT lamps are Spectro-UV's signature inspection lamps, and are used around the world for reliable inspections. TRITAN™ lamps feature three hi-flux UV-A (365 nm) LEDs for fluorescent inspection, plus a convenient white light LED to locate surface flaws and illuminate dark work areas. Their broad-beam configuration provides an extremely wide coverage area, while a compact head design allows access into areas inaccessible to larger UV inspection lamps.

		TRI-365SBLC*	TRI-365HC	TRI-365HB	TRI-365DB*	TRI-365MHB	TRI-365MDB*
TESTED TO COMPLY WITH	 Rolls-Royce RRES 90061 REQUIREMENTS						
TESTED TO COMPLY WITH	 ASTM E3022-15 STANDARD						
MEETS SPECIFICATIONS	 EN ISO 3059						
Nominal Steady-State UV-A Intensity at 15 in (38 cm)		4,500 µW/cm²	7,000 µW/cm²	9,000 µW/cm²	< 5,000 µW/cm²	9,000 µW/cm²	< 5,000 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²		5.5 in (14 cm) Diameter	6 in (15 cm) Diameter	6.5 in (16.5 cm) Diameter	5.5 in (14 cm) Diameter	6.5 in (16.5 cm) Diameter	5.5 in (14 cm) Diameter
Filter/Faceplate		Faceplate with integral UV-A pass filters		Standard faceplate			
Thermal Cut-Off Circuitry							
AC/DC Mobile Model							
Visible Light Measurement		0.5 foot-candles (5 lux)	< 1 foot-candles (11 lux)	< 2 foot-candles (22 lux)			

*These versions are adjusted to ensure that they provide a maximum steady-state UV-A intensity of less than 5,000 µW/cm² at 15 in (38 cm) UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.

Each lamp is fitted with an 8-foot cord and the appropriate plug for the country of destination. An optional 20-foot cord is available. The "/20" suffix denotes the 20-foot power cord options.



Technical Features

Light Source:	(3) UV-A LEDs, (1) white light LED	White Light LED Intensity:	400 foot-candles (4,306 lux)
Lamp Style:	Pistol grip	Power Requirements:	100-120VAC / 12VDC*
Lamp Head Diameter:	3.25 in (8.25 cm)	Battery Pack:	Type: 12V, NiMH (rechargeable) Run time: 3.5 hours continuous Charge time: 2 hours
Height:	8 in (20.3 cm)	Cooling System:	Built-in fan
Weight:	1 lb (454 g)		

*(Also available in 230V & 240V versions)



Compliant Versions*



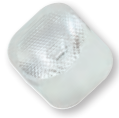
**3 UV-A LEDs
1 White Light LED**



Broad-Beam Configuration



Lightweight



LONG-LASTING UV-A LENSES

Reduce the rate of solarization

RUBBER BUMPER

With Borofloat® glass lens protects LEDs from damage

BUILT-IN FANS

Maintains optimum light output

THERMAL CUT-OFF CIRCUITRY

Prevents lamp from going out of compliance when internal temperature exceeds specifications

**(SBLC model only)*

WHITE LIGHT LED

Use to locate surface flaws

Faceplate with INTEGRAL UV-A PASS FILTERS

Reduce visible wavelengths

**(SBLC and HC models only)*

EASY CONTROL

Grip-mounted, three-way rocker switch (white light/off/UV)



**127955
STANDARD FACEPLATE**

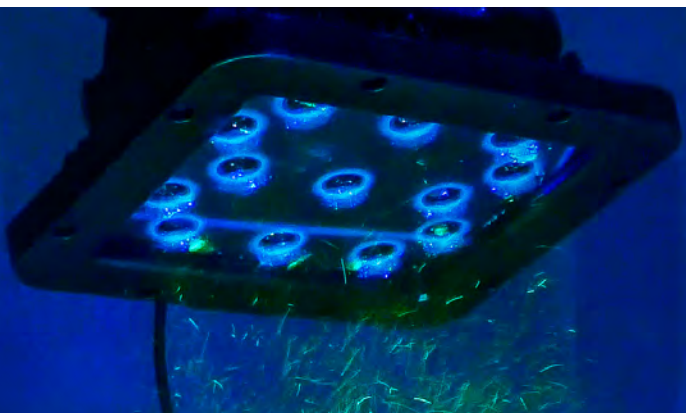


**128196
FACEPLATE WITH INTEGRAL
UV-A PASS FILTERS**

**(SBLC and HC models only)*

TWO REPLACEABLE CORD CHOICES

Standard or extra-long with AC plug and rubber boot



EDGE™ 13 SERIES

LED UV-A Panel Flood Lamps

Get an **EDGE** on your overhead inspections with the newest flood lamp series from Spectro-UV®, the **EDGE™ 13 SERIES**. Designed specifically for NDT professionals who require a reliable and rugged overhead UV-A LED lamp for large parts inspection, these **IP65** rated panel lamps are dust-tight and protected against jets of water from all angles. Expand coverage by connecting lamps together via gang ports. Fanless cooling means fewer headaches. The only overhead NDT lamp series that has all of these features and comes in a RRES-90061 model.

		EDG-13SBLC	EDG-13T	EDG-13HC	EDG-13H
TESTED TO COMPLY WITH	Rolls-Royce RRES 90061 REQUIREMENTS	✓	✗	✗	✗
TESTED TO COMPLY WITH	ASTM E3022-15 STANDARD	✓	✗	✓	✗
MEETS SPECIFICATIONS	EN ISO 3059	✓	✓	✓	✓
Nominal Steady-State UV-A Intensity at 15 in (38 cm)		4,700 µW/cm²	6,500 µW/cm²	8,500 µW/cm²	15,000 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²		14.5 x 13 in (37 x 33 cm)	17 x 15 in (43 x 38 cm)	24 x 22 in (61 x 56 cm)	18 x 16 in (46 x 41 cm)
Filter		Integral UV-A pass filters	Clear filter		
Thermal Cut-Off Circuitry		✓	✗		
Visible Light Measurement		< 1 foot-candles (11 lux)			< 2 foot-candle (22 lux)

UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.



Technical Features

Light Source:	(13) UV-A LEDs
Lamp Style:	Panel flood lamp
Dimensions (L x W x H):	11 x 14 x 9 in (28 x 36 x 23 cm)

Weight:	14 lb (6.4 kg)
Power Requirements:	AC power (main AC power cord supplied with the unit)*
Cooling System:	Fanless

**(Also available in 100-120V, 230V and 240V versions)*



**Compliant
Versions***

**IP65
RATED**



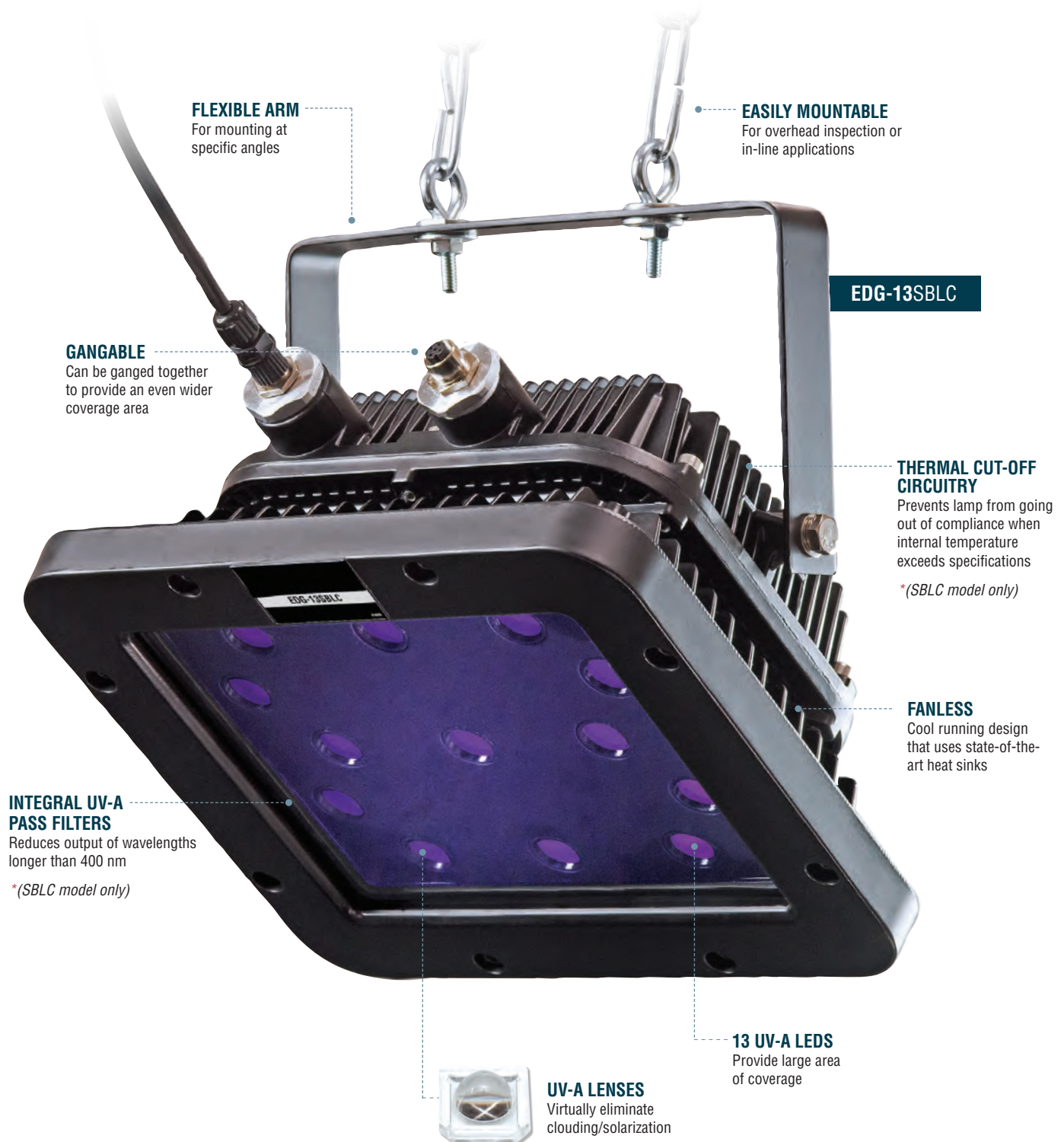
**Dust-Tight &
Water Resistant**



**NDT
Inspection
Booths**



**Large Parts
Inspection**



CLARITY™ 365 SERIES

LED UV-A Inspection Flashlights

SPRAY &
INSPECT IN
ONE
SIMPLE STEP!

The **Clarity™ 365 SERIES** is the **highest quality, longest running, COMPLIANT** LED UV-A flashlight in the world! The IP68-rating means that it can withstand continuous immersion in one meter of water, making it ideal for rough environments. The 9-hour battery life is enough for a full work shift, making it the longest-running NDT flashlight on the market. Standing up to strict NDT standards, this product provides all of the top features including an induction charging base (lithium-ion version).

		SPN-CLR365-HC	SPN-CLR365-SC	SPN-CLR-BHA	SPN-CLR-BA
TESTED TO COMPLY WITH	 ASTM E3022-18 STANDARD	✓	✓	✓	✓
TESTED TO COMPLY WITH	 EN ISO 3059	✓	✓	✓	✓
Nominal Steady-State UV-A Intensity at 15 in (38 cm)		6,500 µW/cm²	4,500 µW/cm²	6,500 µW/cm²	4,500 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,000 µW/cm²		3 in (7.62 cm)	4 in (10.1 cm)	3 in (7.62 cm)	4 in (10.1 cm)
Filter		Integral UV-A pass filters			
Visible Light Measurement		< 1 foot-candles (11 lux)			
Battery Type		Lithium-Ion Rechargeable Battery		Alkaline Battery (3 C-cells)	

UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.



Technical Features

Light Source:	
Lamp Style:	
Lamp Head Diameter:	
Length:	
Weight:	
Run Time:	
Charge Time:	



SPN-CLR365-HC & SPN-CLR365-SC (Lithium-Ion Battery)

(1) UV-A LED
Cordless flashlight
1 in (2.6 cm)
7 in (17.8 cm)
0.8 lbs (363 g) with battery
9 hours (continuous)
6 Hours



SPN-CLR-BHA & SPN-CLR-BA (Alkaline Battery)

(1) UV-A LED
Cordless flashlight
1.75 in (4.5 cm)
8.75 in (22.2 cm)
1.2 lbs (544.3 g)
9 hours (continuous)
N/A



**Longest
Battery Life
on the Market**



**Auto
Shut-Off**



**Water-Proof,
Dust-Proof**



**Wireless
Induction
Charger***

**Lithium Ion model only*

**LONG-LASTING
UV-A LED**

Protected by lens

**CHARGING
INDICATOR**

**RUGGED, DURABLE
METAL HOUSING**

**UV-A PASS
FILTER**

**RECHARGEABLE
BATTERY**



**CLARITY Spray Mount Accessory
RP-SM-01**

Specially crafted lamp attachment permits lamp and spray can to be mounted together for convenient, single-handed fluorescent yoke inspection.

INDUCTION CHARGER*

Stands on table, lamp is charged wirelessly

**Lithium Ion model only*



**SPN-CLR365-HC
SPN-CLR365-SC**

Flashlight with battery, induction charging dock, AC power cord, USB power cord, belt holster, UV-absorbing spectacles, comes in carrying case.



**SPN-CLR-BHA
SPN-CLR-BA**

Flashlight with 3 C-cell alkaline batteries, belt holster, UV-absorbing spectacles and carrying case.



OPTI-LUX™ 365 SERIES

LED UV-A Inspection Flashlights

OPTI-LUX™ 365 SERIES inspection flashlights feature a powerful UV-A (365 nm) LED light source coupled with a rugged anodized lamp body. They reduce user fatigue while providing an extremely uniform beam profile that surpasses those of more expensive lamps. Available in four models to suit your specific NDT needs: high-intensity or standard-intensity versions, each with or without an internal UV-A pass filter. Comes with a Certificate of Light Output for both wavelength and output measurements.

	OLX-365	OLX-365B	OLX-365FL	OLX-365BFL
MEETS REQUIREMENT EN ISO 3059	✓	✓	✓	✓
Nominal Steady-State UV-A Intensity at 15 in (38 cm)	10,000 µW/cm²		4,500 µW/cm²	
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²	2 in (5 cm) Diameter		2.5 in (6.3 cm) Diameter	
Filter/Faceplate	Clear filter	UV-A pass filter	Clear filter	UV-A pass filter
Visible Light Measurement	0.8 foot-candles (8.6 lux)	0.4 foot-candles (4.3 lux)	0.3 foot-candles (3.2 lux)	0.2 foot-candles (2.1 lux)

UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.



Technical Features

Light Source:	(1) UV-A LED	Power Requirements:	(1) 3.7V 2600mA/Hr lithium-ion battery (rechargeable)
Lamp Style:	Cordless flashlight	Run Time:	4 hours (continuous)
Lamp Head Diameter:	1.25 in (3.2 cm)	Charge Time:	4 hours (one or two batteries)
Length:	5.9 in (15 cm)	Charging Cradle:	Two-battery capability with AC and DC cord sets*
Weight:	4.6 oz (130 g) with battery	* (Also available in 100-120V, 230V & 240V versions)	



Rechargeable
Li-Ion Battery



Bright &
Uniform Beam



Instant-on
Operation



Small Space
Inspection

CONVENIENT ON/OFF SWITCH

For easy one-handed
operation

ANODIZED ALUMINUM LAMP BODY

Minimizes corrosion and stands
up to years of heavy use



OPTI-LUX™ 365 SERIES Flashlight Kit

Come complete with OPX-365 LED UV-A (365 nm) lamp with lanyard, two rechargeable batteries, smart charging cradle with AC and DC cord sets, UV-absorbing spectacles, belt holder and a hard carrying case.

BF-365LX

External UV-A pass
filter accessory



OPTIMAX™ 365

LED UV-A Inspection Flashlight

The cordless **OPTIMAX™ 365 OPX-365** is ergonomic, compact and lightweight. It's designed to provide ultimate freedom of movement during inspections. With an ultra-high-intensity output, it's our most powerful UV-A (365 nm) LED flashlight.

	OPX-365
Nominal Steady-State UV-A Intensity at 15 in (38 cm)	18,000 $\mu\text{W}/\text{cm}^2$
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 $\mu\text{W}/\text{cm}^2$	2.5 in (6.3 cm) Diameter
Visible Light Measurement	< 2 foot-candles (22 lux)

Technical Features

Light Source:	(1) UV-A LED
Lamp Style:	Cordless flashlight
Lamp Head Diameter:	2 in (5.1 cm)
Length:	8 in (20.3 cm)
Weight:	11.8 oz (335 g) with battery
Power Requirements:	3.6V, 2.0Ah NiMH internal battery stick (rechargeable)
Run Time:	90 minutes (continuous)
Charge Time:	4 hours

UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.



**Rechargeable
NiMH Battery**



**Bright &
Uniform Beam**



**Instant-on
Operation**



**90 Minutes
Run Time**

ANODIZED ALUMINUM LAMP BODY

Minimizes corrosion and stands up to years of heavy use

CONVENIENT ON/OFF SWITCH

For easy one-handed operation



**CHARGE STATUS
INDICATOR LIGHT**

ELECTRONIC INTENSITY STABILIZER

Assures consistent performance

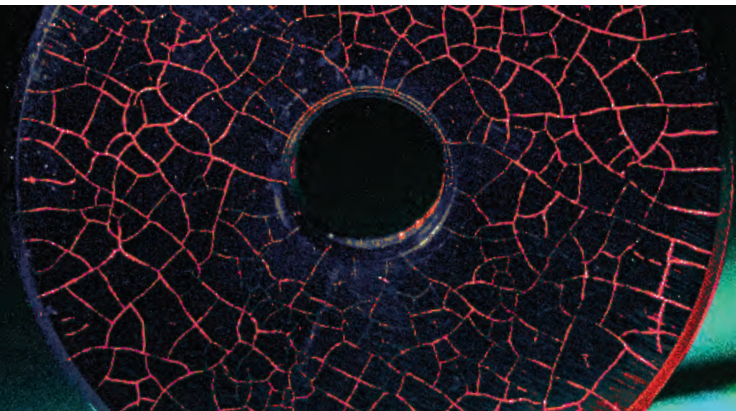


OPX-365 OPTIMAX™ 365 Kit

Comes complete with OPTIMAX™ 365 (365 nm) lamp, smart AC and DC chargers, UV-absorbing spectacles, belt holder and hard carrying case. AC charger available in 120V, 230V, 240V or 100V versions.

OPTIMAX™ 450

Rechargeable LED Blue Light Flashlight



The **OPTIMAX™ 450 OPX-450** is a versatile, cordless inspection lamp, featuring a high-intensity blue light (450 nm) LED. The anodized aluminum lamp body minimizes corrosion and stands up to years of heavy use, and our patented, thin-film dichroic lens filters out long-wave visible light. Electronic Intensity Stabilizer assures consistent performance. Beam strength will not weaken between charges. Powered by a rechargeable NiMH battery. Provides 90 minutes of continuous inspection between charges.

MEETS SPECIFICATIONS	OPX-450	
	CEN/TR 16638	✓
	Nominal Steady-State Blue Light Intensity at 15 in (38 cm)	7,000 $\mu\text{W}/\text{cm}^2$
	Blue Light Coverage Area at 15 in (38 cm) at minimum 2,000 $\mu\text{W}/\text{cm}^2$	3 in (7.6 cm) Diameter

Technical Features

Light Source:	(1) Blue light LED
Lamp Style:	Cordless flashlight
Lamp Head Diameter:	2 in (5.1 cm)
Length:	8 in (20.3 cm)
Weight:	11.8 oz (335 g) with battery
Power Requirements:	3.6V, 2.0Ah NiMH internal battery stick (rechargeable)
Run Time:	90 minutes (continuous)
Charge Time:	4 hours

Blue Light intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.



Accessories

IMAGE	PART #	DESCRIPTION
	RB-300	Smart AC charger (120V/60Hz)*
	RB-300DC	12V DC charger
	UVS-40	Fluorescence-enhancing spectacles, yellow

*Also available in 230V, 240V, and 100V versions



Rechargeable
NiMH Battery



Bright &
Uniform
Beam



Instant-on
Operation



90 Minutes
Run Time



Works In
Daylight!



**PATENTED,
THIN-FILM
DICHROIC LENS**
Improve contrast and
fluorescent response

ANODIZED ALUMINUM LAMP BODY

Minimizes corrosion and stands
up to years of heavy use

CONVENIENT ON/OFF SWITCH

For easy one-handed
operation

CHARGE STATUS INDICATOR LIGHT

ELECTRONIC INTENSITY STABILIZER

Assures consistent
performance



OPX-450 OPTIMAX™ 450 Kit

Comes complete with OPTIMAX™ 450 LED
blue light lamp, smart AC and DC chargers,
fluorescence-enhancing yellow spectacles,
belt holder and rugged, hard carrying case.

MAXIMA™ 3500 SERIES

Ultra-High-intensity UV-A Lamps

These super-powerful **MAXIMA™ 3500 SERIES** lamps make NDT inspections easy. They feature micro discharge light (MDL) technology with a fatigue-free ergonomic design. Deliver up to 10 times the UV-A output of conventional HID inspection lamps. They have a lightweight, solid-state ballast and integral bulb/reflector assembly. Stay-cool, impact-resistant and dent-proof housing. Prefocused at the factory.

	ML-3500S	ML-3500FL	ML-3500MS
Nominal Steady-State UV-A Intensity at 15 in (38 cm)	50,000 $\mu\text{W}/\text{cm}^2$	5,700 $\mu\text{W}/\text{cm}^2$	50,000 $\mu\text{W}/\text{cm}^2$
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 $\mu\text{W}/\text{cm}^2$	6 in (15 cm) Diameter		
Ultra-High-intensity Output	✓		
Reflector Assembly	Spot reflector	Flood/anodized reflector	Spot reflector
Battery-Powered, Mobile Model	✗		✓

UV-A intensity reading taken with the Spectro-UV® AccuMAX™ Series meter, and is factory set to the value shown.
*These versions are adjusted to ensure that they provide a maximum steady-state UV-A intensity of less than 5,000 $\mu\text{W}/\text{cm}^2$ at 15 in (38 cm)



-  **Ultra-High-Intensity Output**
-  **Extra Wide Coverage**
-  **Very Bright Beam**
-  **Works In Daylight!**



VIVID™ Replacement Bulb

- ▶ UV-A LED replacement bulb
- ▶ Convert your mercury vapor HID lamp to modern LED technology
- ▶ Use with Spectro-UV® HID lamps instead of mercury vapor bulb!



Instant-on Operation
No wait time to get to full intensity



Fewer Bulb Changes



Safer
Over 50% cooler!
225°F vs. 109°F
(HID) (LED)



Environmental
Less environmental waste with fewer bulbs and energy efficient



BLE-LED-100



BLE-LED-150

INCLUDES
BULB
EXTENDER*
for BIB-150P
lamps (120V)

P/N *129585



BLE-LED-150/F

INCLUDES
BULB
EXTENDER*
for BIB-150P/F
lamps (230V)

P/N *130245

Part #	Nominal Steady-State UV-A Intensity at 15 in (38 cm)	UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²	Visible Light Measurement
BLE-LED-100 BLE-LED-150 BLE-LED-150/F	4,700 µW/cm² (tested with 2F958 filter)	4.5 in (12 cm) Diameter	< 1 foot-candle (11 lux)

Works **seamlessly** in conjunction with the following Spectro-UV® HID lamps, saving you *both* time and money on bulb changes:



Lamp	Current Bulb Type	Replacement Vivid Bulb
SB-100P SERIES	100S/M HID Bulb	BLE-LED-100
FC-100 SERIES	100S/M HID Bulb	
BIB-150P SERIES	BLE-150CS-115/M	BLE-LED-150
	BLE-150BS-115/M	
	BLE-150CS-100/M	
BIB-150P/F SERIES	BLE-150CS-230/M	BLE-LED-150/F
FC-150/F SERIES	BLE-150FC-230/M	

COMES WITH PATENTED
BULB-SAVER™

Keeps bulb upright in housing and maintains alignment through usage, increasing longevity.

UV PROTECTIVE EYE AND FACE WEAR

FACESHIELDS AND PROTECTIVE GOGGLES - Essential accessories for all NDT and UV work

- ▶ Designed for long wearing comfort and to protect the user against most ultraviolet light sources
- ▶ improves contrast between the fluorescent area and the background by eliminating the “blue haze” interference
- ▶ Goggles and face shield meet ANSI specifications and OSHA standards
- ▶ UVS-30 spectacles, generally recommended for sporadic, lower intensity UV sources fit easily over eyeglasses
- ▶ UVF-80 face shield, for maximum protection from extended or high intensity UV exposure, adjusts to fit the face



UVS-30
UV-absorbing Spectacles

UVS-40
Fluorescence-enhancing Spectacles



UVG-50
UV-absorbing Goggles

UVF-80
UV-absorbing Face shield





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Product literature, instructions and a full staff of trained customer service representatives and technical service engineers are available for support. Additional product information and support are available on our website.



Place an Order:
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Get Support:
Call (888) 230-7306

IMAGINING FOR TOMORROW:

We are excited to release several new, in-demand products very soon.
Have some feedback or product ideas? Please reach out – we would love to hear from you.
Email our team at sales@spectro-uv.com

Company Background

Spectro-UV is the global **leader of inventing and manufacturing ultraviolet and non-destructive testing materials**. The goal of Spectro-UV is to produce effective, top-quality products that are on the cutting edge of today's technology with the utmost dedication to customer satisfaction.

We have worked alongside NDT experts, engineers, product designers, and standards committee members to carefully develop our compliant lamps to meet the highest standards.



SPECTRO-UV HEADQUARTERS, FARMINGDALE, NY

HOME OF SPECTRO-UV®, THE GLOBAL LEADER IN UV LIGHTS AND METERS

SPECTRO-UV®

SOLUTIONS FOR NDT
FLUORESCENT INSPECTIONS.

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www.Spectro-UV.com
4 Dubon Ct., Farmingdale, NY 11735
866-230-7305

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