Catalog 302 (January 2018)

SPECTROLINE®
NDT

E3022-15

RRES 90061

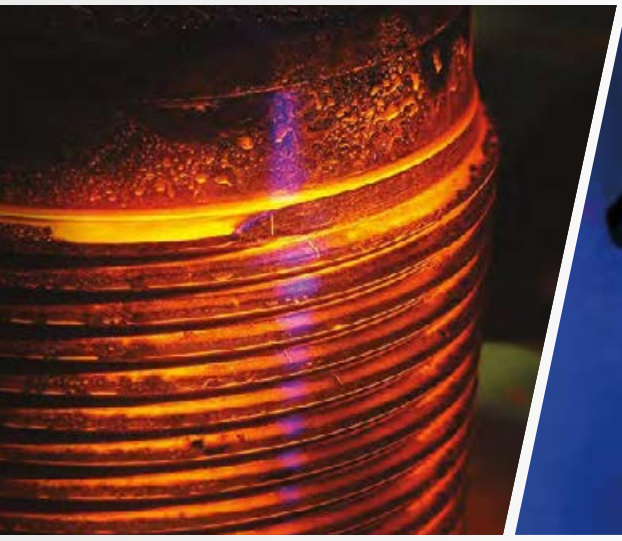
AMS 2647

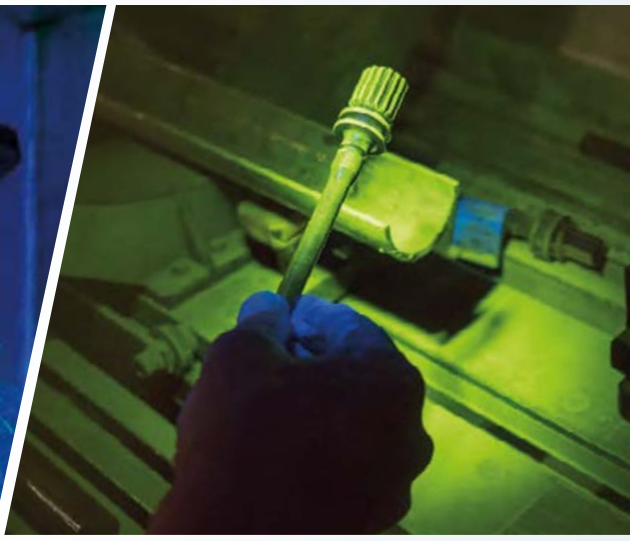
EN ISO 3059

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

Spectronics Corporation

Leading the way since 1955, setting the new 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 New Standard in NDT:

Many of the Spectroline® 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. Spectroline® 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. Spectroline® 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

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PROUD MEMBERS OF:

ASTM INTERNATIONAL Standards Worldwide · ASNT · SAE INTERNATIONAL · aerochemicals

SPECTROLINE®

uVision™ 365 SERIES

Compliant, IP Rated, Fanless LED UV-A Lamps

The uVision™ 365 SERIES is Spectroline's innovative new 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-365**MSBLC*	**UV-365**HC	**UV-365**MHC	**UV-365**ES*	**UV-365**EH	**UV-365**MEH
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) ①		< 5,000 µW/cm²		6,000 µW/cm²		< 5,000 µW/cm²	7,000 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		6 in (15 cm) Diameter	7 in (18 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)
① UV-A intensity reading taken with the Spectroline® 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.

CE

Technical Features

Light Source:	(3) UV-A LEDs, (1) white light LED
Lamp Style:	Pistol grip
Lamp Head Diameter:	3.5 in (9 cm)
Height:	7.5 in (19 cm)
Width:	3.5 in (8.9 cm)
Weight:	1.9 lb (0.90 kg)

White Light LED Intensity:	400 foot-candles (4,306 lux)
Power Requirements:	100-120VAC / 12VDC*
Battery Pack:	Type: 12V, NiMH (rechargeable) Run time: 3.5 hours continuous Charge time: 2 hours

(Also available in 230V & 240V versions)

Compliant Versions*

IP65 RATED

Dust-Tight & Water Resistant

Fanless & Cool Running

Wide, Even Beam Profile

uVision™ 365 DELUXE Models*

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

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

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

BACK VIEW

uVision™ 365 ECONOMY Models

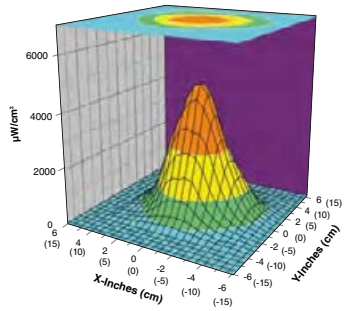
IP65 rated, compact, LED UV-A inspection lamps. Available in two different intensities. These cost-effective inspection lamps can be used in nondestructive evaluation, forensics, and security inspections.

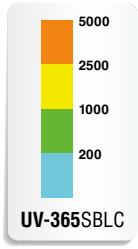
- **3 UV-A LEDS** for wide area of coverage
- **WHITE LIGHT LED** allows for scanning surface flaws (not adjustable)
- **LONG-LASTING UV-A LENSES** reduce the rate of solarization
- **SEALED CONTROL SWITCH** grip-mounted, three-way rocker switch (white light/off/UV)
- **PISTOL GRIP** comfortable, balanced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

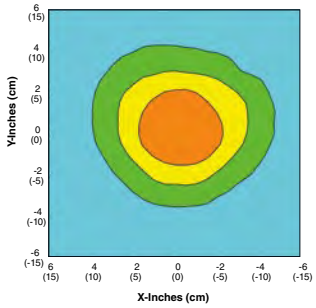
STANDARD-INTENSITY

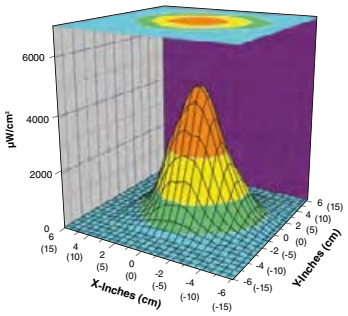
SURFACE CONTOUR PROFILE
at 15 in (38 cm)

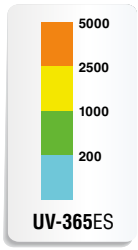
TOP INTENSITY PROFILE
at 15 in (38 cm)

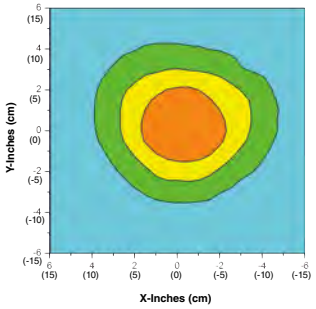




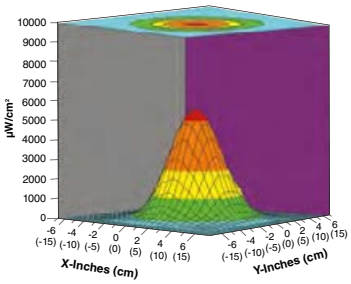


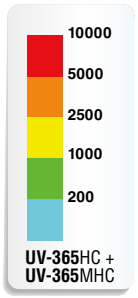


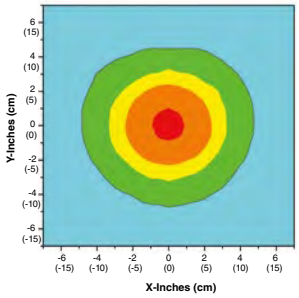


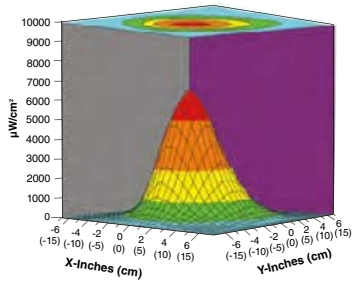


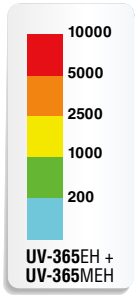
HIGH-INTENSITY

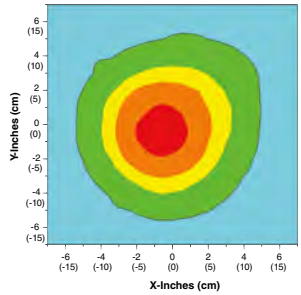




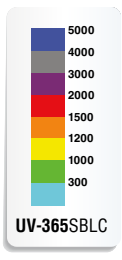


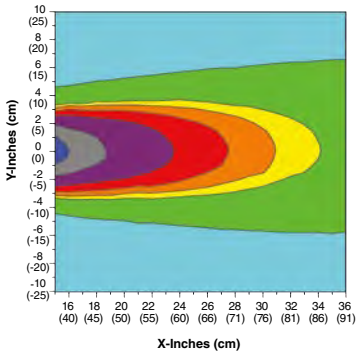






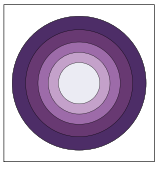
LONGITUDINAL PROFILE Alternative view of beam profile and useful irradiance zone



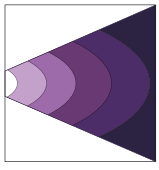


In addition to providing a traditional transverse projected beam showing intensity profile distribution upon a surface, we now measure and provide a longitudinal beam profile for some of our NDT LED UV-A lamps.

The Longitudinal Scan shows irradiance distribution as function of inspection distance.



Transverse Scan: shows intensity of beam pattern upon a surface



Longitudinal Scan: shows irradiance distribution as function of inspection distance

UV-365SBLC

uVision™ 365 AC Deluxe Kit

Lamp with in-line AC power supply, UV-absorbing spectacles, comes in a protective case.

UV-365MSBLC

uVision™ 365 AC/DC Mobile Deluxe Kit

Lamp with in-line AC power supply, UV-absorbing spectacles, battery pack with 12V rechargeable NiMH battery, comes in a protective case.

UV-365MEH

uVision™ 365 AC/DC Mobile Kit

Lamp with AC power supply, UV-absorbing spectacles, battery pack with 12V rechargeable NiMH battery, comes in a padded case.

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127955	Standard faceplate
	128196	Faceplate with integral UV-A pass filters
	130206	8 foot (2.4 m) AC power cord (100-120V/50-60Hz)
	130210	20 foot (6.1 m) AC power cord (100-120V/50-60Hz)
	130260	8 foot (2.4 m) AC power cord for DELUXE SERIES* (100-120V/50-60Hz)
	130264	20 foot (6.1 m) AC power cord for DELUXE SERIES* (100-120V/50-60 Hz)
	130290	8 foot (2.4 m) AC power cord for MOBILE DELUXE SERIES* (100-120V/50-60Hz)
	130294	20 foot (6.1 m) AC power cord for MOBILE DELUXE SERIES* (100-120V/50-60Hz)
	140005	Protective carrying case for DELUXE SERIES
	B-6	Bench mount

IMAGE	PART #	DESCRIPTION
	BP-30	Battery pack with 12V rechargeable NiMH battery
	BR-150A	Smart AC charger for battery pack
	CC-370A	Padded carrying case
	FA-100	Flexible arm
	FP-600	Borofloat® filter protector
	UL-110	Long lasting UV-A lens
	UVS-30	UV-absorbing spectacles
	W-6	Wall mount with pin
	WM-100	Wall mounting bracket

* Available in 100-120V, 230V and 240V versions

TRITAN™ 365 SERIES

LED UV-A Handheld Lamps

TRITAN™ 365 SERIES NDT lamps are Spectroline'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) ①	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)
① UV-A intensity reading taken with the Spectroline® 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.

CE

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)		
Weight:	1 lb (454 g)	**Cooling System:**	Built-in fan

(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

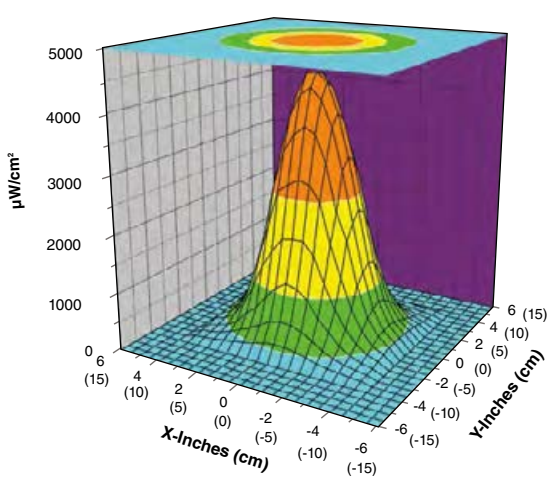
128196
FACEPLATE WITH INTEGRAL UV-A PASS FILTERS

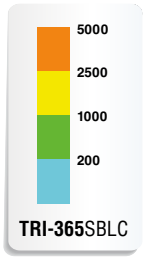
(SBLC and HC models only)

TWO REPLACEABLE CORD CHOICES
Standard or extra-long with AC plug and rubber boot

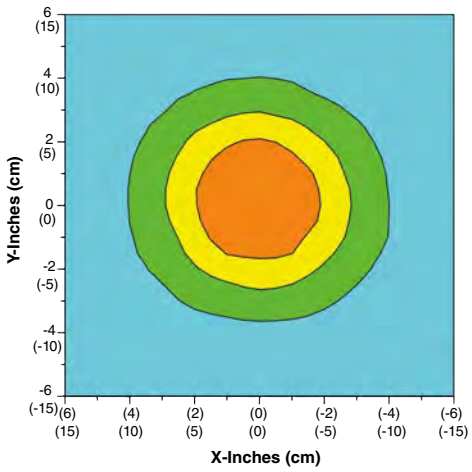
STANDARD-INTENSITY

SURFACE CONTOUR PROFILE
at 15 in (38 cm)

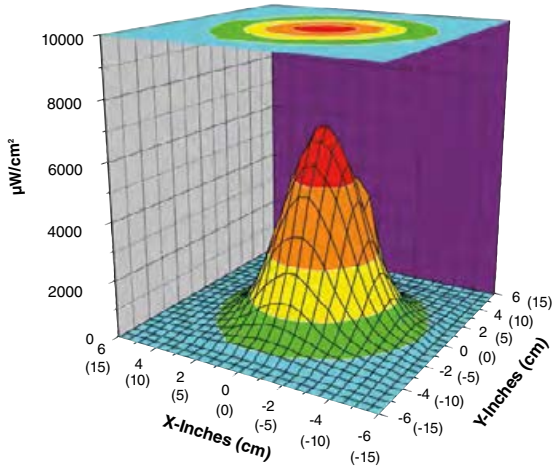


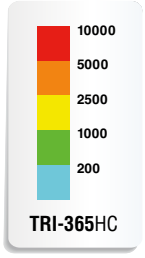


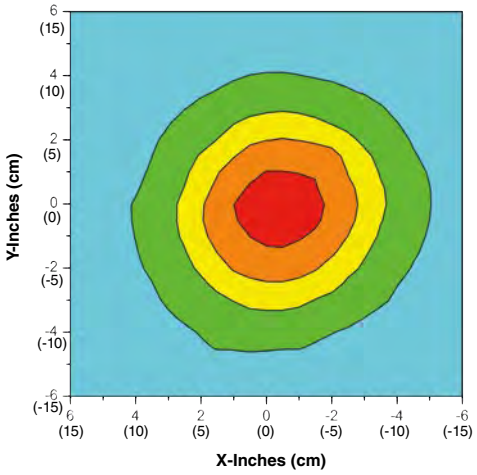
TOP INTENSITY PROFILE
at 15 in (38 cm)



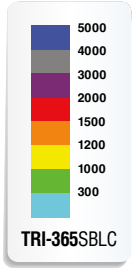
HIGH-INTENSITY

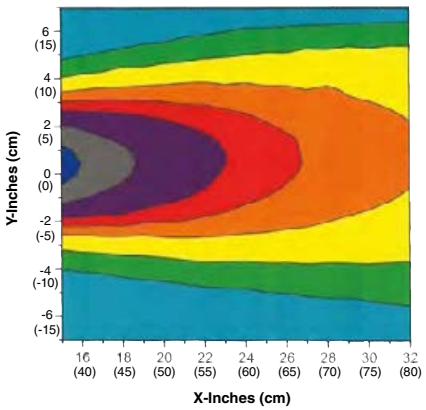






LONGITUDINAL PROFILE Alternative view of beam profile and useful irradiance zone





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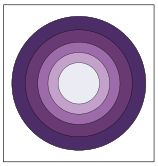
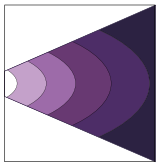
The Longitudinal Scan shows irradiance distribution as function of inspection distance.



Transverse Scan: shows intensity of beam pattern upon a surface



Longitudinal Scan: shows irradiance distribution as function of inspection distance

TRITAN™ 365 M-SERIES

Portable, battery-operated AC/DC lamp kits. Includes TRITAN™ 365 UV-A (365 nm) LED lamp, rechargeable NiMH battery pack, power supply adapter with AC/DC cord sets, smart AC charger, UV-absorbing spectacles and padded carrying case.

PS-200A
Industrial Power Supply

PS-300A
In-Line Power Supply

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127933	Particulate filter assembly
	127955	Standard faceplate
	128196	Faceplate with integral UV-A pass filters
	129141	Standard 8 foot (2.4 m) AC power cord
	129145	Extra-long 20 foot (6.1 m) AC power cord
	129162	3.5 foot (1.1 m) DC power cord for "M" SERIES lamps
	B-6	Bench mount*
	BP-30	Battery pack with 12V rechargeable NiMH battery
	BR-150A	Smart AC charger for battery pack
	CC-370A	Padded carrying case

IMAGE	PART #	DESCRIPTION
	FA-100	Flexible arm
	FP-365	Rubber bumper with Borofloat® glass
	LH-300A	Lamp holder
	PS-200A	Industrial power supply / primary cord: 8 feet (2.4 m); secondary cord: 20 feet (6.1 m).**
	PS-300A	In-line power supply / primary cord: 8 feet (2.4 m); secondary cord: 8 feet (2.4 m).**
	PSA-250A	AC/DC power supply adapter for "M" SERIES lamps
	UL-110	Long lasting UV-A lens
	UVS-30	UV-absorbing spectacles
	W-6	Wall mount with pin*
	WM-100	Wall mounting bracket*

* Must be used in conjunction with LH-300A for connecting
** Available in 100-120V, 230V and 240V versions

QUADRAN™ 365 S-SERIES

Powerful NDT LED UV-A Inspection Lamps

QUADRAN™ 365 S-SERIES lamps are versatile, broad-beam NDT inspection lamps that are handheld, or can be easily mounted in place for stationary in-line inspections. These lamps feature four powerful UV-A (365 nm) LEDs plus a convenient white light LED to quickly switch between fluorescent inspection and flaw location. For increased flexibility, a unique dual, high/low white light output control.

	QDR-365SC	QDR-365SA
TESTED TO COMPLY WITH ASTM E3022-15 STANDARD	✓	✗
MEETS SPECIFICATIONS EN ISO 3059	✓	✓
Nominal Steady-State UV-A Intensity at 15 in (38 cm) ①	3,700 µW/cm²	4,500 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²	6 in (15 cm) Diameter	6.5 in (16.5 cm) Diameter
Filter/Faceplate	Faceplate with integral UV-A pass filters	Standard faceplate
Visible Light Measurement	< 0.5 foot-candles (5 lux)	< 2 foot-candles (22 lux)

① UV-A intensity reading taken with the Spectroline® 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.

CE

Technical Features

Light Source:	(4) UV-A LEDs, (1) white light LED	**White Light LED Intensity:**	High setting: 300 foot-candles (3,229 lux) Low setting: 10 foot-candles (108 lux)
Lamp Style:	Pistol grip	**Power Requirements:**	100-120VAC / 12VDC*
Lamp Head Size:	6 x 5.5 in (15 x 14 cm)	**Cooling System:**	Built-in fan
Height:	10 in (25 cm)		
Weight:	3 lb (1.36 kg)		

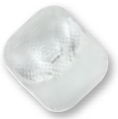
**(Also available in 230V & 240V versions)*

Compliant Versions*

4 UV-A LEDs
1 White Light LED

Very Broad Coverage Area

Cool Running



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

WHITE LIGHT LED
Use to locate surface flaws

Faceplate with INTEGRAL UV-A PASS FILTERS
Reduce visible wavelengths

(SC model only)

BUILT-IN FANS
Maintains optimum light output

EASY CONTROL
Rear-mounted, three-way rocker switch (white light/off/UV)

RUBBER BUMPER
With Borofloat® glass lens protects LEDs from damage

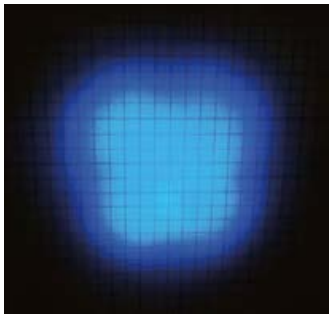
IN-LINE INSPECTION
Lamp handle pin receptacle allows for easy mounting attachments.

127944
STANDARD FACEPLATE

128094
FACEPLATE WITH INTEGRAL UV-A PASS FILTERS

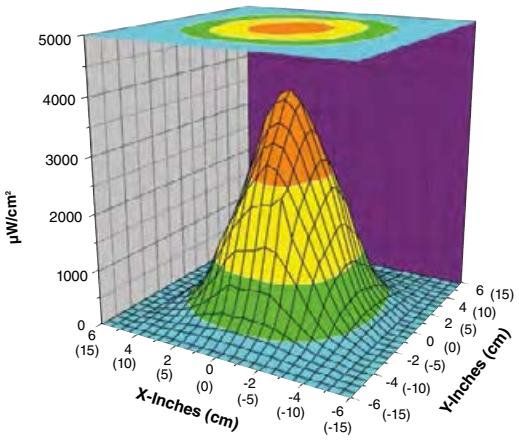
(SC model only)

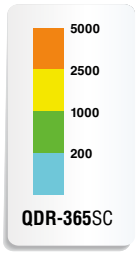
Uniform Beam Pattern
QDR-365SC at 10 in (25 cm)

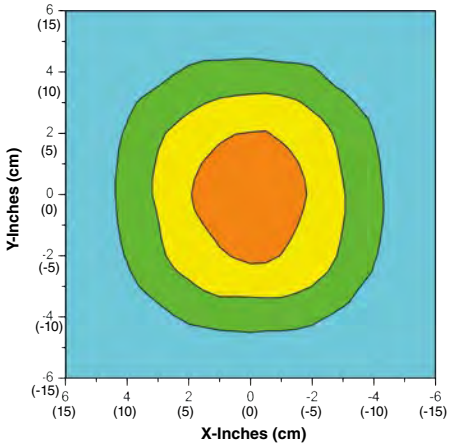


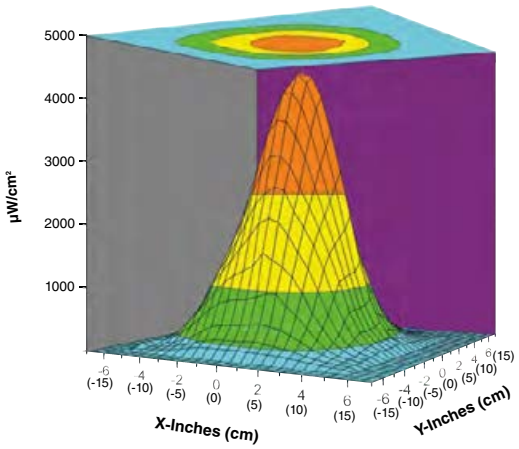
SURFACE CONTOUR PROFILE
at 15 in (38 cm)

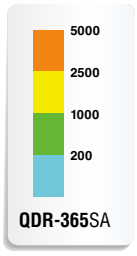
TOP INTENSITY PROFILE
at 15 in (38 cm)

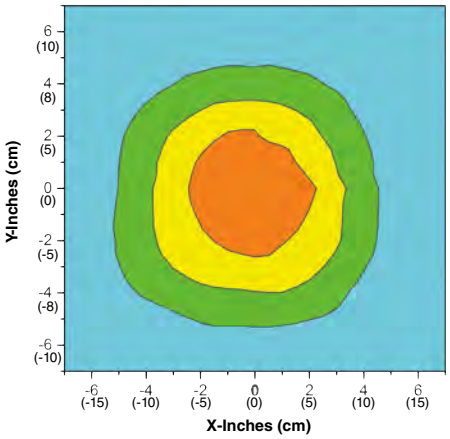




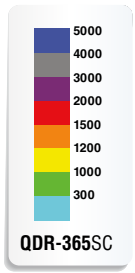


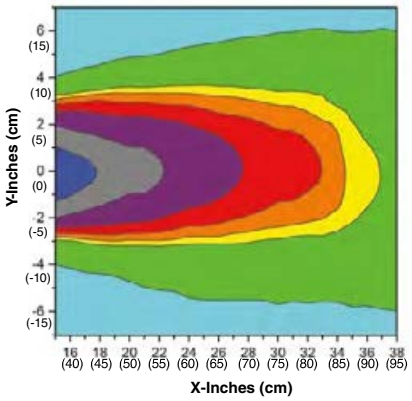






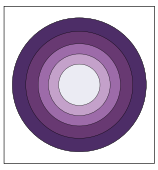
LONGITUDINAL PROFILE Alternative view of beam profile and useful irradiance zone



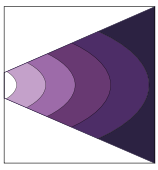


In addition to providing a traditional transverse projected beam showing intensity profile distribution upon a surface, we now measure and provide a longitudinal beam profile for some of our NDT LED UV-A lamps.

The Longitudinal Scan shows irradiance distribution as function of inspection distance.



Transverse Scan: shows intensity of beam pattern upon a surface



Longitudinal Scan: shows irradiance distribution as function of inspection distance

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127922	Particulate filter assembly
	127944	Standard faceplate
	128094	Faceplate with integral UV-A pass filters
	129141	Standard, 8-foot (2.4 m) AC power cord
	129145	Extra-long 20 foot (6.1 m) AC power cord
	B-6	Bench mount
	CC-400	Padded carrying case
	FA-100	Flexible arm

IMAGE	PART #	DESCRIPTION
	FP-550	Rubber bumper with Borofloat® glass
	PS-200A	Industrial power supply. primary cord: 8 feet (2.4 m); secondary cord: 20 feet (6.1 m).*
	PS-300A	In-line power supply. primary cord: 8 feet (2.4 m); secondary cord: 8 feet (2.4 m).*
	UL-110	Long lasting UV-A lens
	UVS-30	UV-absorbing spectacles
	W-6	Wall mount with pin
	WM-100	Wall mounting bracket

* Available in 100-120V, 230V and 240V versions

EDGE™ 13 SERIES

LED UV-A Panel Flood Lamps

Get an **EDGE** on your overhead inspections with the newest flood lamp series from Spectroline®, 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
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) ①		4,700 µW/cm²	6,500 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)
Filter		Integral UV-A pass filters	Clear filter
Thermal Cut-Off Circuitry		✓	✗
Visible Light Measurement		< 1 foot-candles (11 lux)	

① UV-A intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

CE

Technical Features

Light Source:	(13) UV-A LEDs	**Weight:**	14 lb (6.4 kg)
Lamp Style:	Panel flood lamp	**Power Requirements:**	AC power (main AC power cord supplied with the unit)*
Dimensions (L x W x H):	11 x 14 x 9 in (28 x 36 x 23 cm)	**Cooling System:**	Fanless

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

Compliant Versions*

IP65 RATED

Dust-Tight & Water Resistant

NDT Inspection Booths

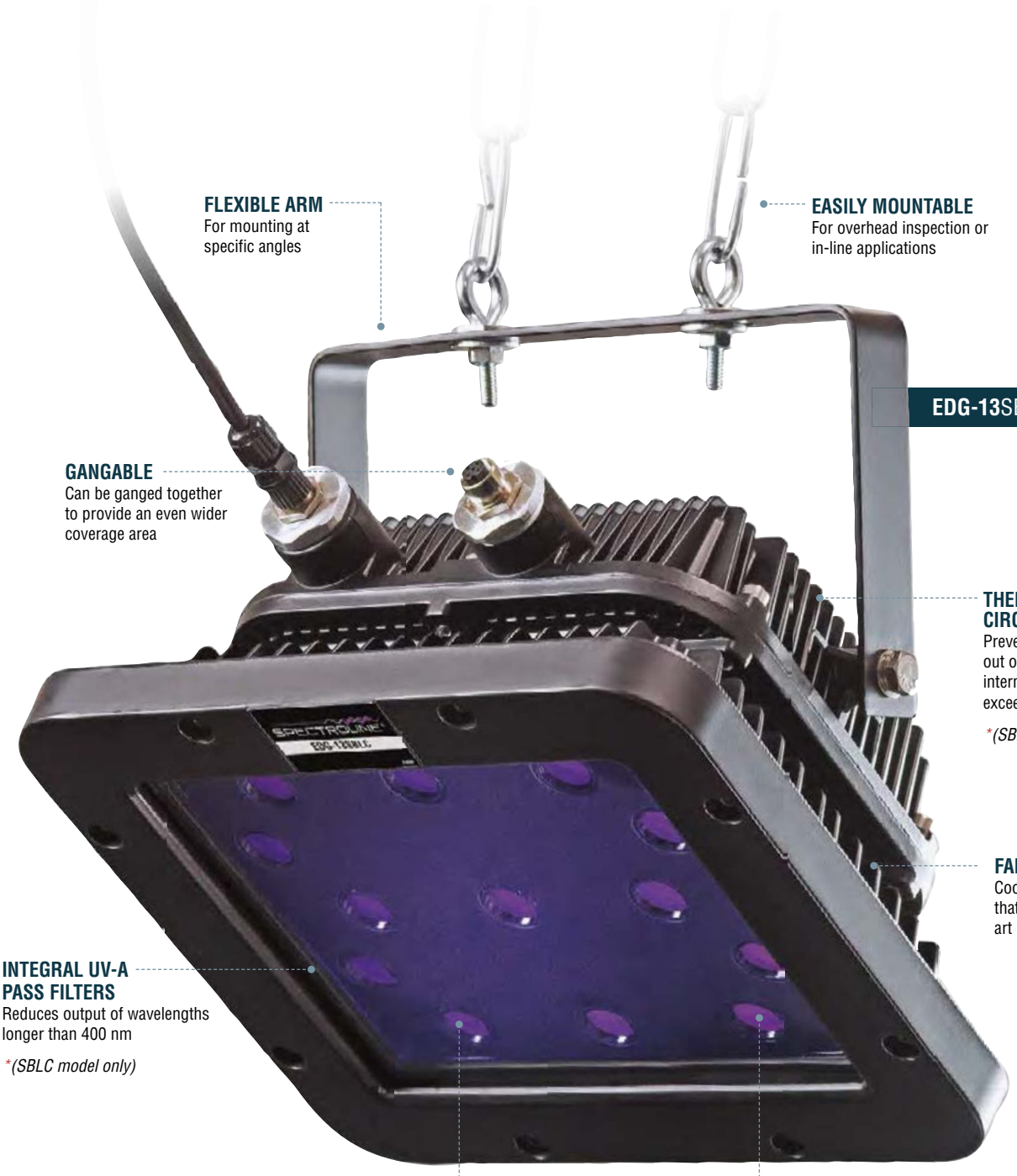
Large Parts Inspection

FLEXIBLE ARM
For mounting at specific angles

EASILY MOUNTABLE
For overhead inspection or in-line applications

EDG-13SBLC

GANGABLE
Can be ganged together to provide an even wider coverage area



THERMAL CUT-OFF CIRCUITRY
Prevents lamp from going out of compliance when internal temperature exceeds specifications

(SBLC model only)

FANLESS
Cool running design that uses state-of-the-art heat sinks

INTEGRAL UV-A PASS FILTERS
Reduces output of wavelengths longer than 400 nm

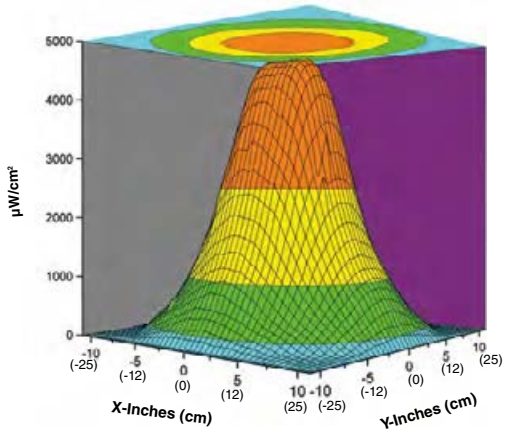
(SBLC model only)

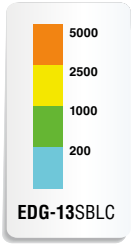
13 UV-A LEDS
Provide large area of coverage

UV-A LENSES
Virtually eliminate clouding/solarization

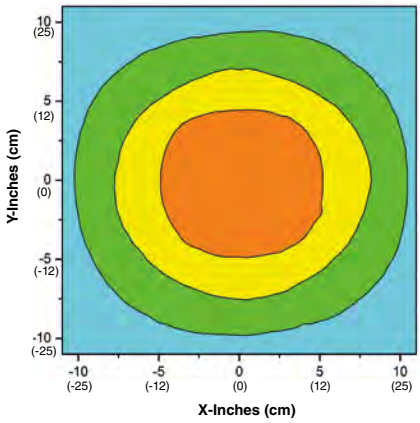
STANDARD-INTENSITY

SURFACE CONTOUR PROFILE
at 15 in (38 cm)

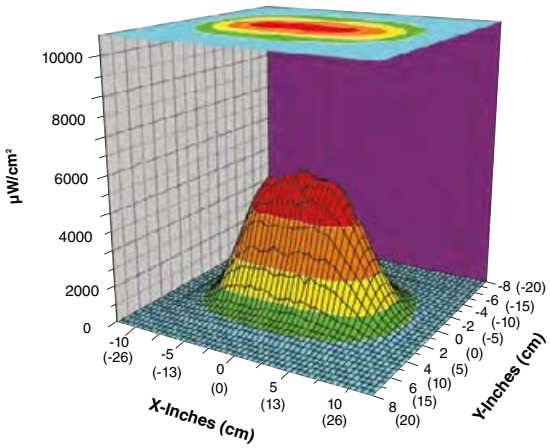


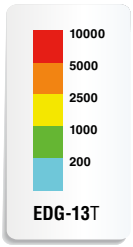


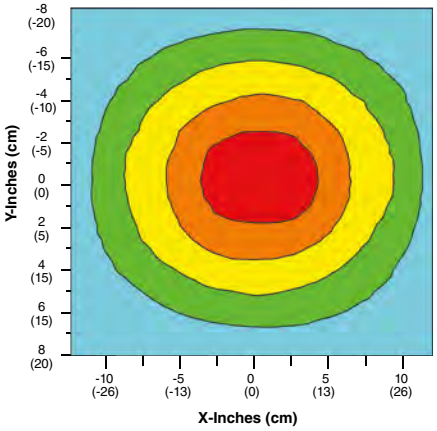
TOP INTENSITY PROFILE
at 15 in (38 cm)



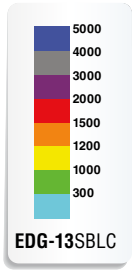
HIGH-INTENSITY

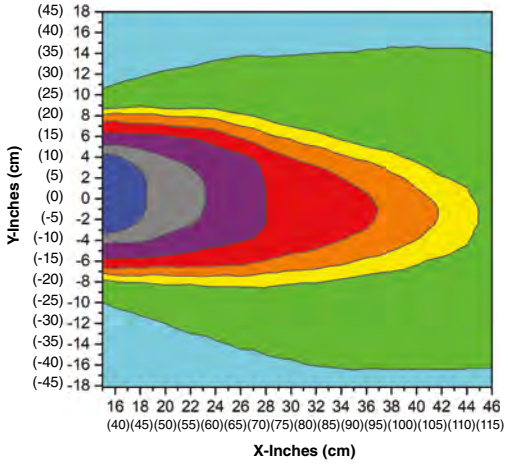






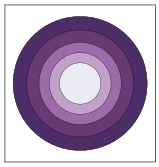
LONGITUDINAL PROFILE Alternative view of beam profile and useful irradiance zone



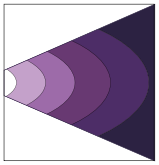


In addition to providing a traditional transverse projected beam showing intensity profile distribution upon a surface, we now measure and provide a longitudinal beam profile for some of our NDT LED UV-A lamps.

The Longitudinal Scan shows irradiance distribution as function of inspection distance.



Transverse Scan: shows intensity of beam pattern upon a surface



Longitudinal Scan: shows irradiance distribution as function of inspection distance

MEET YOUR EXACT SPECIFICATIONS, NO MATTER THE JOB LEVEL.

EDG-13T
HIGH-INTENSITY: 7,000 µW/cm²

EDG-13SBLC
STANDARD-INTENSITY: < 5,000 µW/cm²

For applications requiring extremely large coverage area, the EDGE™ 13 can be quickly ganged together.

*Optional accessory:
gangable cables with connectors (130156)

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	130155	AC control box with connector (120V/50-60Hz)
	130156	Gangable cables with connectors
	131160	UV-A pass filter assembly (Pack of 13)
	131161	UV-A lens (Pack of 13)
	131162	Clear glass assembly with gaskets

IMAGE	PART #	DESCRIPTION
	131163	AC control box with connector (220-240V/50Hz with CCC Config.)
	131164	AC control box with connector (220-240V/50Hz with Australia plug)
	131165	AC control box with connector (230V/50Hz with UK plug)
	131166	AC control box with connector (230V/50Hz with Euro plug)
	UVS-30	UV-absorbing spectacles

PowerMAX™ 365 SERIES

LED UV-A Panel Flood Lamps

PowerMAX™ 365 SERIES flood lamps feature a panel of 16 powerful UV-A (365 nm) LEDs specially engineered for nondestructive testing (NDT) applications including aviation/aerospace. These versatile, stationary light sources can be installed overhead or in-line. For applications requiring extremely large coverage area, the PowerMAX™ 365 can be quickly ganged together longitudinally or back-to-back using customized, easy-to-install connecting plates and brackets.

	PM-1600SBLC	PM-1600HC	PM-1600UV	PM-1600UVH
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) ①	4,500 µW/cm²	7,000 µW/cm²	4,500 µW/cm²	8,000 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²	15 x 6 in (38 x 15 cm)	16 x 6 in (40 x 15 cm)	15 x 6 in (38 x 15 cm)	
Filter	Integral UV-A pass filters		Clear filter	
Thermal Cut-Off Circuitry	✓	✗		
Visible Light Measurement	< 0.5 foot-candles (5 lux)	< 1 foot-candles (11 lux)		< 2 foot-candles (22 lux)

① UV-A intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

CE

Technical Features

Light Source:	(16) UV-A LEDs	**Weight:**	9 lb (4 kg)
Lamp Style:	Panel flood lamp	**Power Requirements:**	AC power (main AC power cord supplied with the unit)*
Dimensions (L x W x H):	13.75 x 5.5 x 6 in (35 x 14 x 15 cm)	**Cooling System:**	Built-in fan

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

Compliant Versions*

NDT Inspection Booths

Large Parts Inspection

Customizable/ Gangable

PM-1600SBLC

BUILT-IN FANS
Maintains optimum light output

EASILY MOUNTABLE
For overhead inspection or in-line applications

THERMAL CUT-OFF CIRCUITRY
Prevents lamp from going out of compliance when internal temperature exceeds specifications

*(SBLC model only)

16 UV-A LEDS
Provide large area of coverage

INTEGRAL UV-A PASS FILTERS
Reduces output of wavelengths longer than 400 nm

*(SBLC and HC models only)

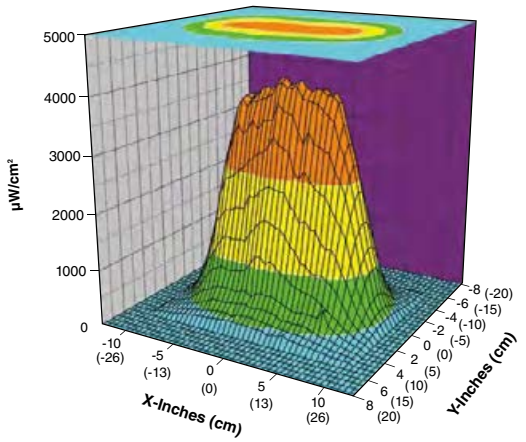
LONG-LASTING UV-A LENSES
Reduce the rate of solarization

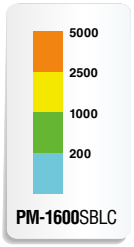
For applications requiring extremely large coverage area, the PowerMAX™ 365 can be quickly ganged together longitudinally (left) or back-to-back (right) using customized, easy-to-install connecting plates and brackets.

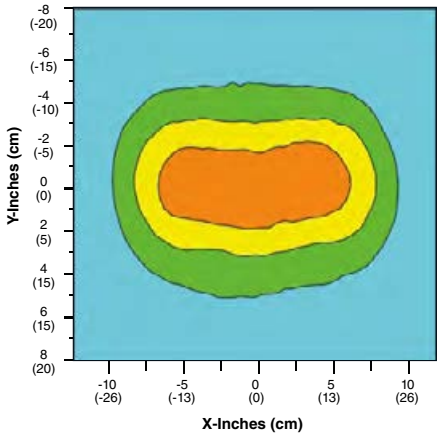
SURFACE CONTOUR PROFILE
at 15 in (38 cm)

TOP INTENSITY PROFILE
at 15 in (38 cm)

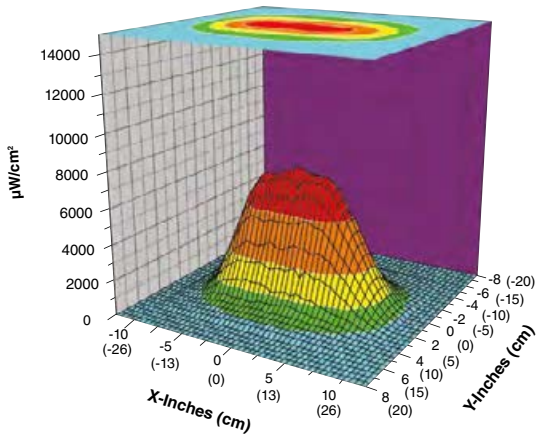
STANDARD-INTENSITY

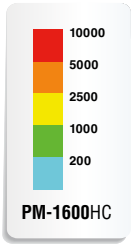


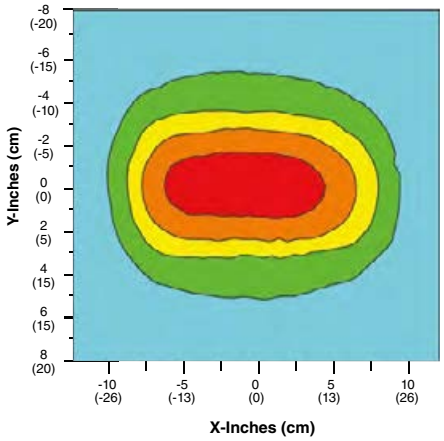




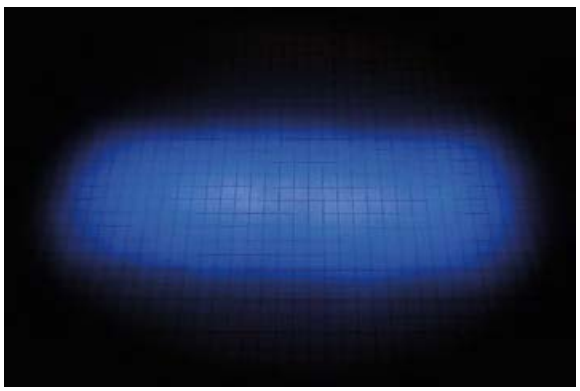
HIGH-INTENSITY



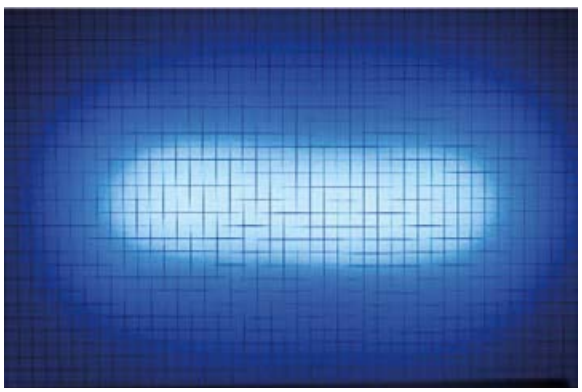




Uniform Beam Pattern
PM-1600SBLC at 11 in (27 cm)

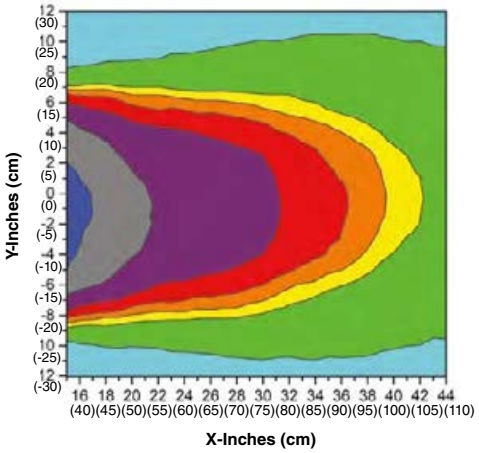


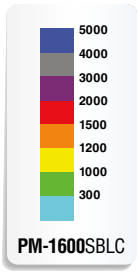
Uniform Beam Pattern
PM-1600HC at 11 in (27 cm)



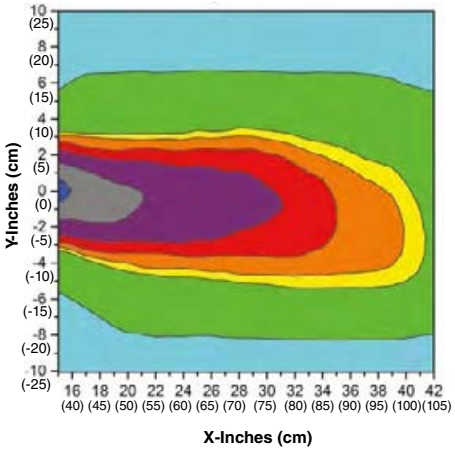
LONGITUDINAL PROFILE Alternative view of beam profile and useful irradiance zone

Longitudinal along the **Y-AXIS**



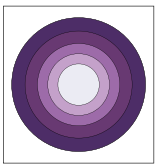


Longitudinal along the **X-AXIS**

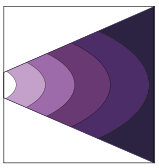


In addition to providing a traditional transverse projected beam showing intensity profile distribution upon a surface, we now measure and provide a longitudinal beam profile for some of our NDT LED UV-A lamps.

The Longitudinal Scan shows irradiance distribution as function of inspection distance.



Transverse Scan: shows intensity of beam pattern upon a surface

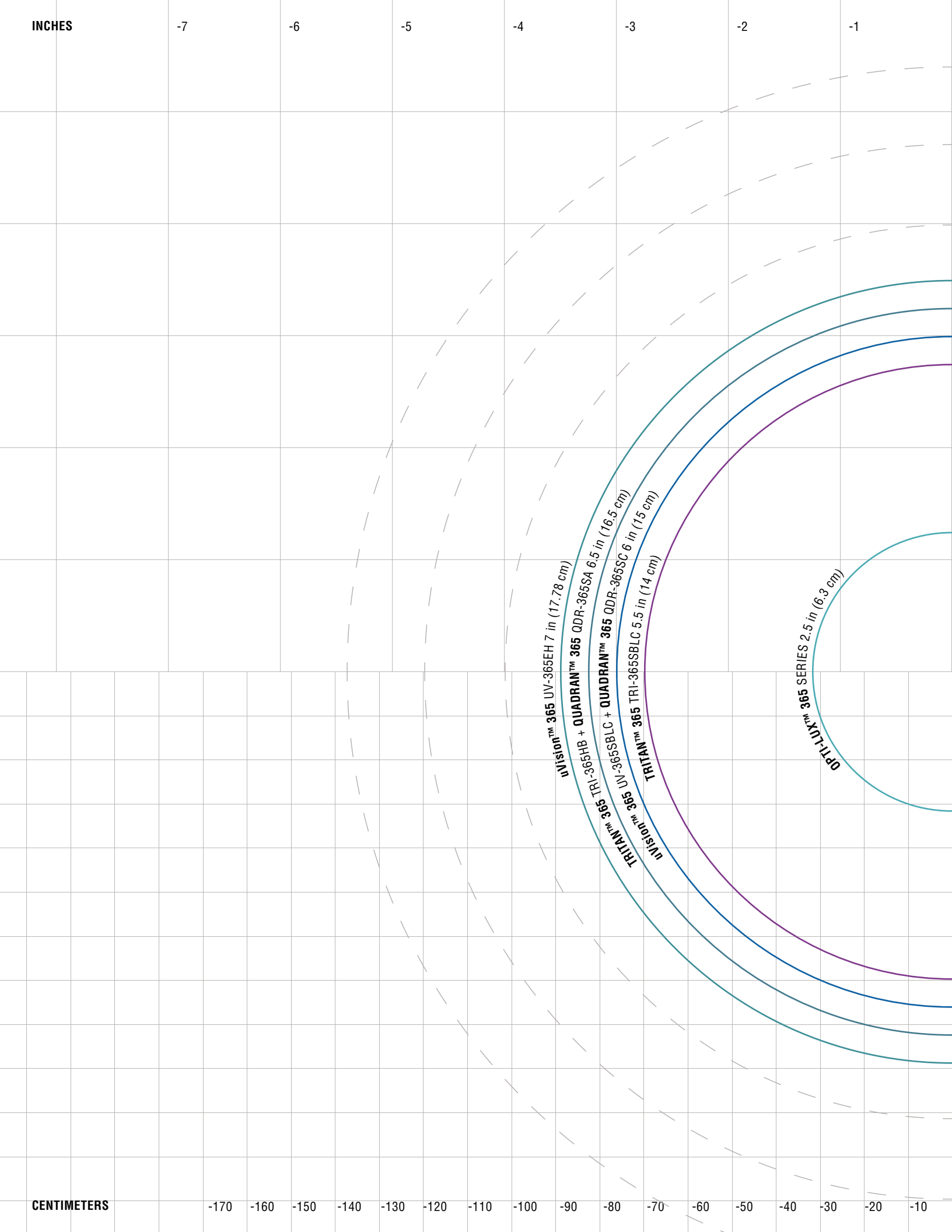


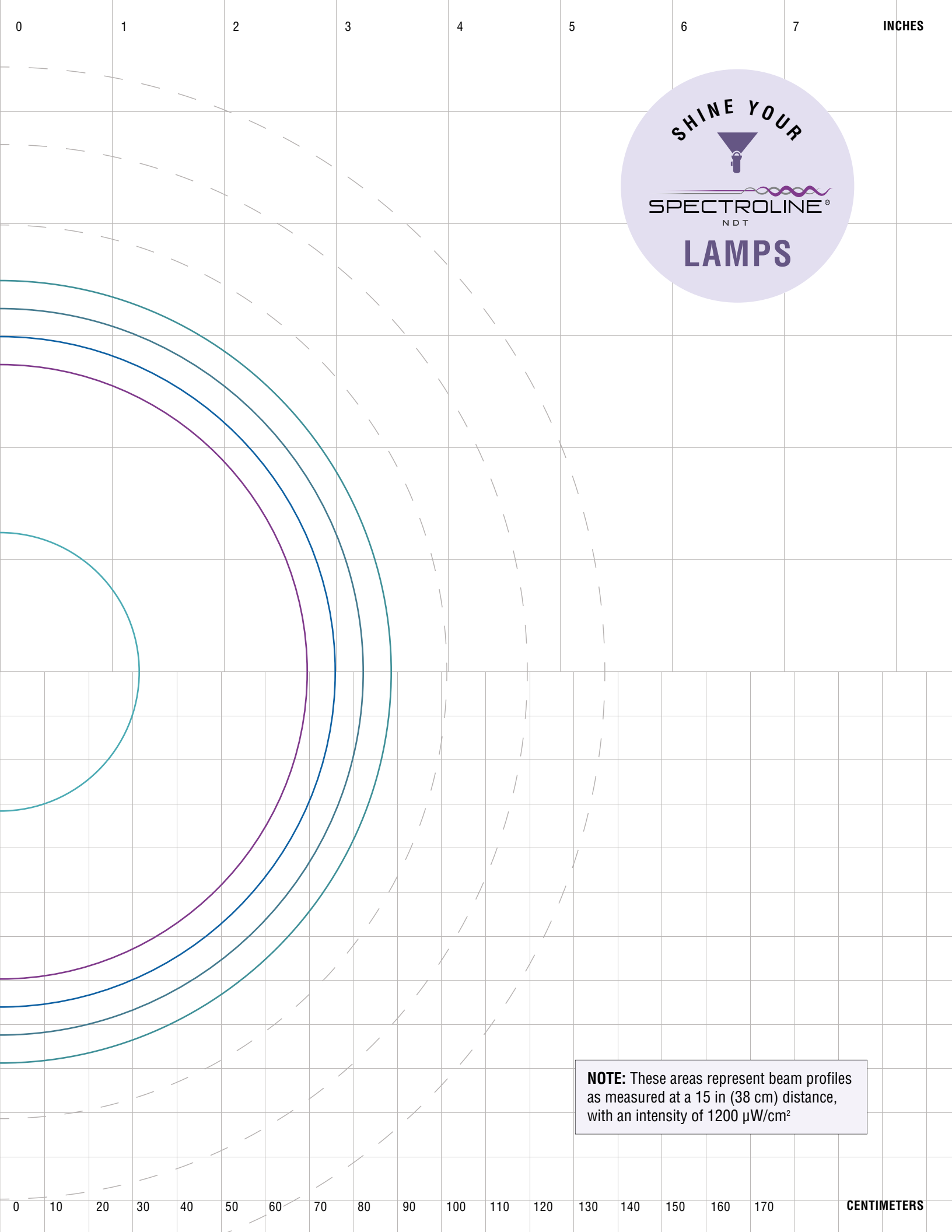
Longitudinal Scan: shows irradiance distribution as function of inspection distance

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127918	Particulate air filter
	127935	Retainer LED assembly faceplate
	128177	AC power cord
	BF-365PM	UV-A pass filter assembly
	CC-200	Connector cable for ganging lamps
	CF-100	Clear glass filter assembly

IMAGE	PART #	DESCRIPTION
	CP-100	Top connecting plate for ganging lamps longitudinally
	CP-200	Top connecting plate for ganging lamps back-to-back (2 required)
	CP-300	Side connecting bracket for ganging lamps longitudinally (2 required)
	UL-110	Long lasting UV-A lens
	UVS-30	UV-absorbing spectacles


INCHES
-7
-6
-5
-4
-3
-2
-1
uVision™ 365 UV-365EH 7 in (17.78 cm)
TRITAN™ 365 TRI-365HB + QUADRAN™ 365 QDR-365SA 6.5 in (16.5 cm)
uVision™ 365 UV-365SBLC + QUADRAN™ 365 QDR-365SC 6 in (15 cm)
TRITAN™ 365 TRI-365SBLC 5.5 in (14 cm)
OPTI-LUX™ 365 SERIES 2.5 in (6.3 cm)
CENTIMETERS
-170
-160
-150
-140
-130
-120
-110
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10


0
1
2
3
4
5
6
7
INCHES
SHINE YOUR
SPECTROLINE®
NDT
LAMPS
NOTE: These areas represent beam profiles as measured at a 15 in (38 cm) distance, with an intensity of 1200 µW/cm²
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
CENTIMETERS

EagleEye™ 365 DELUXE

LED UV-A/White Light Hands-Free Inspection Kit

The **EagleEye™ 365 DELUXE Kit** features the compliant, cool-running EagleEye™ 365 inspection lamp (EE-365SC). It is engineered with two high-quality UV-A (365 nm) LEDs for inspection, plus a three-LED white light assembly for general illumination. An adjustable strap allows the lamp to be worn on a hard hat or directly on the head. A unique lamp mount/sprayer attachment permits the lamp and a spray can to be used together for convenient, single-handed fluorescent yoke inspection. A serialized Certificate of Conformance to ASTM E3022-15 is supplied with every lamp.

	EK-3000SC
TESTED TO COMPLY WITH **ASTM** E3022-15 STANDARD	✓
MEETS SPECIFICATIONS **EN ISO** 3059	✓
Nominal Steady-State UV-A Intensity at 15 in (38 cm) ①	3,500 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²	5 in (13 cm)
Filter/Faceplate	Faceplate with integral UV-A pass filters
Visible Light Measurement	< 1 foot-candle (11 lux)

Technical Features

Light Source:	(2) UV-A LEDs, (3) white light LEDs
Lamp Style:	Cordless handheld
Dimensions: (L x W x H)	3.75 x 2.25 x 1.85 in (9.5 x 5.7 x 4.7 cm)
Weight:	8 oz (227 g) with battery
Power Requirements:	(1) 3.7V 2600mA/Hr rechargeable lithium-ion battery (included)
Run Time:	90 minutes (continuous)
Charge Time:	4 hours (one or two batteries)
Charging Cradle:	Two-battery capability with AC and DC cord sets (Available in 100-120V, 230V & 240V versions)

① UV-A intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

CE

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127568	Lithium-ion battery (rechargeable)
	128217	Smart charging cradle with AC and DC cord sets
	CC-370A	Padded carrying case
	EE-365SC	LED UV-A/white light lamp
	HS-100	Head strap

IMAGE	PART #	DESCRIPTION
	LMS-100	Lamp mount/sprayer
	SG-100	Splash guard with integral particulate filter (set of three)
	UL-110	Long lasting UV-A lens
	UVS-30	UV-absorbing spectacles

The **EagleEye™ 365** DELUXE is Ideal for:

Magnetic Particle Inspection | **Ship Inspection** | **Oil & Gas Inspection**

LONG LASTING UV-A LENSES

Faceplate with INTEGRAL UV-A PASS FILTERS
Reduce visible wavelengths

LED LAMP WITH HEAD STRAP
Option for hands-free operation

LED LAMP WITH SPRAY MOUNT
Attaches easily to ANY magnetic particle can — hold yoke in other hand

MAKES MPI A ONE-PERSON JOB WHILE OUT IN THE FIELD.

EK-3000SC

EagleEye™ 365 DELUXE Kit

Comes complete with EE-365SC UV-A/white light LED lamp with a lanyard, head strap, lamp mount, two replacement splash guards with integral particulate filters, two spare rechargeable batteries, smart charging cradle with AC and DC cord sets, UV-absorbing spectacles and padded 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 SPECIFICATIONS EN ISO 3059	✓	✓	✓	✓
Nominal Steady-State UV-A Intensity at 15 in (38 cm) ①	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)

① UV-A intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

CE

Technical Features

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

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

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127423	Dome lens
	127568	Lithium-ion battery (rechargeable)
	127574	Belt holder
	127607	Internal UV-A pass filter
	127785	Internal clear filter

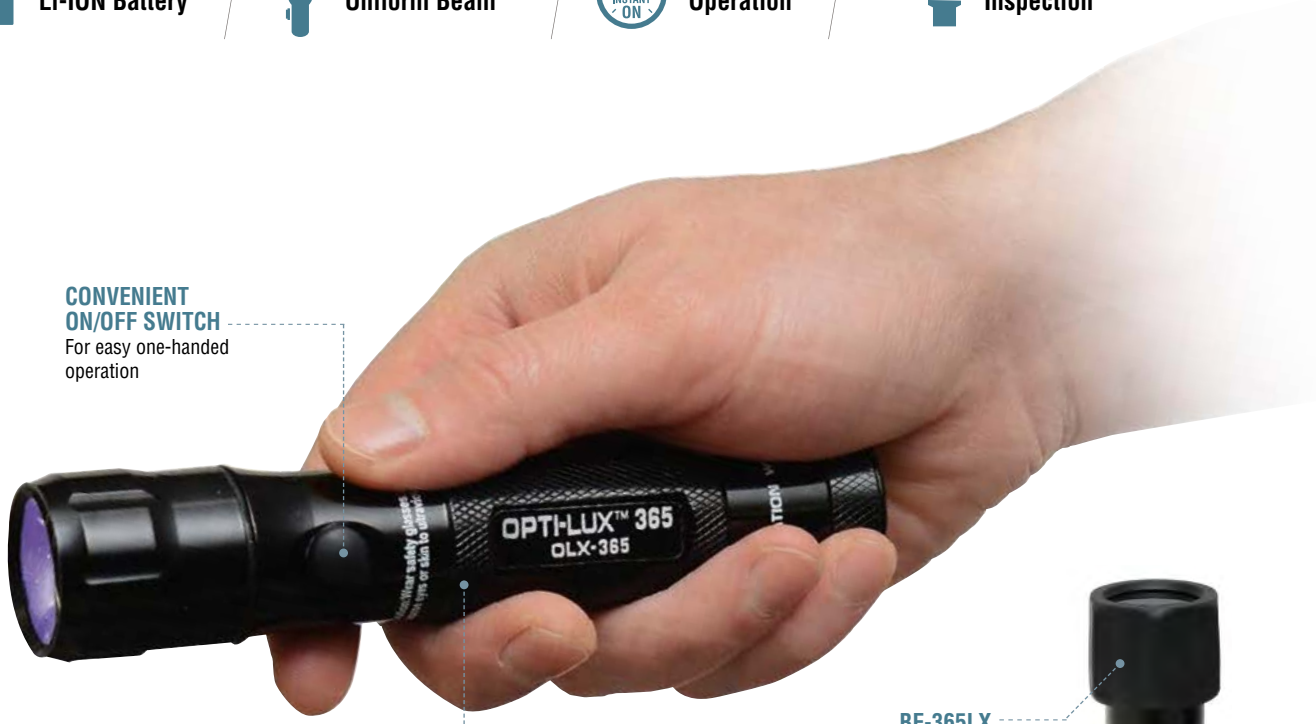
IMAGE	PART #	DESCRIPTION
	128217	Smart charging cradle with AC and DC cord sets
	BF-365LX	External UV-A pass filter with rubber bumper
	CC-365	Hard carrying case
	UVS-30	UV-absorbing spectacles

Li-ION **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

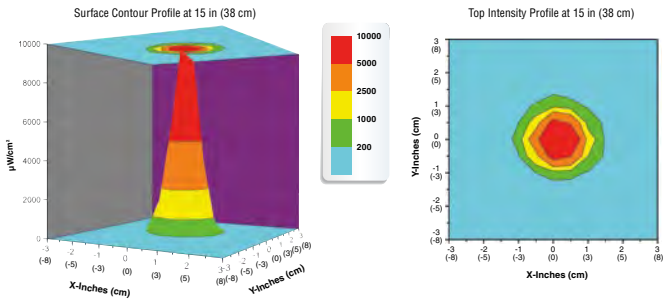
BF-365LX
External UV-A pass filter accessory

OPTI-LUX™ 365 SERIES Flashlight Kit

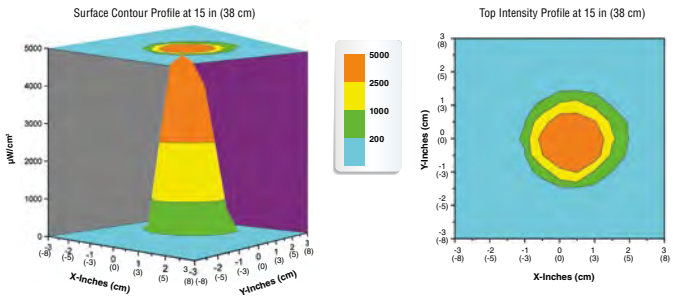
Come complete with OPX-365 LED UV-A (365 nm) lamp with lanyard, two rechargeable batteries, smart charging cradle with AC and DC cord sets, UV-absorbing spectacles, belt holder and a hard carrying case.

UV-A Beam Profiles

HIGH-INTENSITY



STANDARD-INTENSITY



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) ①	18,000 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²	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

① UV-A intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

CE

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	125608	Battery stick with tail-cap
	127243	Belt holder
	CC-365	Hard carrying case

IMAGE	PART #	DESCRIPTION
	RB-300	Smart AC charger (120V/60Hz)*
	RB-300DC	12V DC charger
	UVS-30	UV-absorbing spectacles

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

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

ELECTRONIC INTENSITY STABILIZER
Assures consistent performance

CHARGE STATUS INDICATOR LIGHT

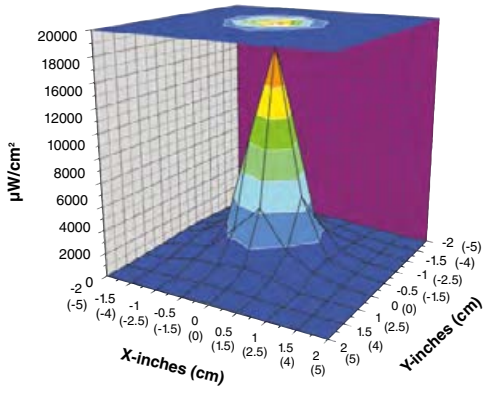
OPX-365

OPTIMAX™ 365 Kit

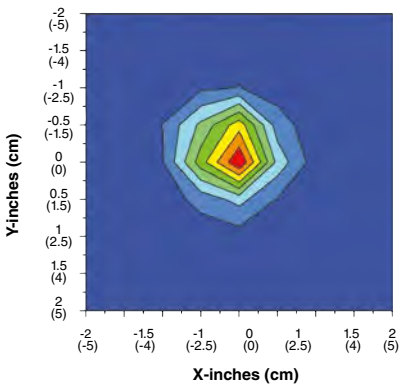
Comes complete with OPTIMAX™ 365 (365 nm) lamp, smart AC and DC chargers, UV-absorbing spectacles, belt holder and hard carrying case. AC charger available in 120V, 230V, 240V or 100V versions.

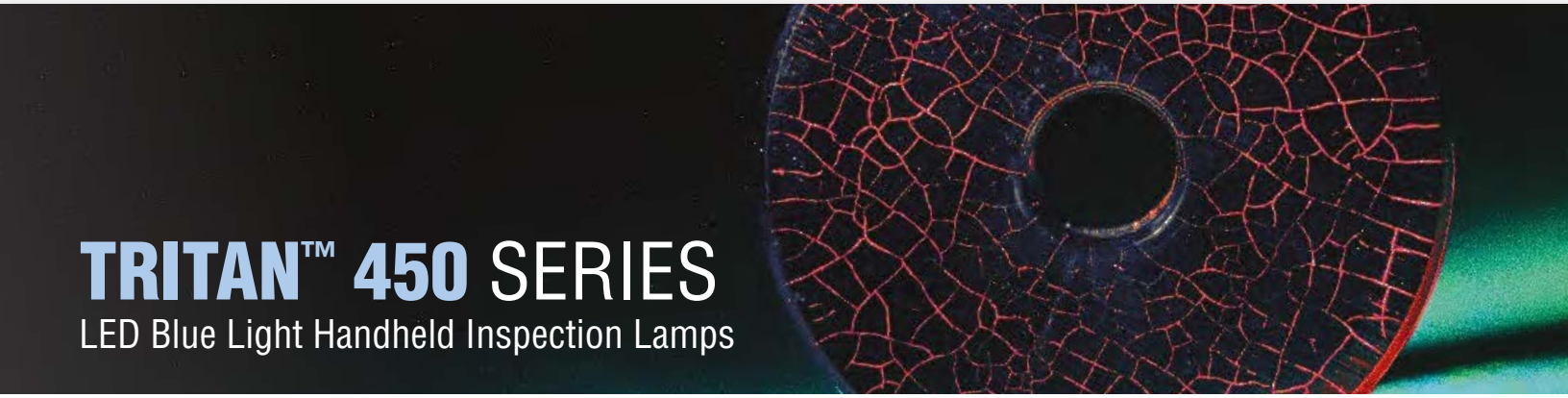
UV-A Beam Profiles

Surface Contour Profile at 15 in (38 cm)



Top Intensity Profile at 15 in (38 cm)





TRITAN™ 450 SERIES

LED Blue Light Handheld Inspection Lamps

Features three cool-running, ultra-high flux blue light (450 nm) LEDs with a broad-beam configuration. This powerful lamp provides a wider coverage area than conventional inspection lamps, while its compact head design allows access into areas inaccessible to larger inspection lamps. Ideal for most nondestructive testing applications, including use in some ambient light conditions!

	TRI-450B	TRI-450MB
MEETS SPECIFICATIONS **CEN/TR** 16638	✓	
Nominal Steady-State Blue Light Intensity at 15 in (38 cm) ①	9,500 µW/cm²	
Blue Light Coverage Area at 15 in (38 cm) at minimum 2,000 µW/cm²	5 in (13 cm) Diameter	

Technical Features

Light Source:	(3) Blue light LEDs
Lamp Style:	Pistol grip
Lamp Head Diameter:	3.25 in (8.25 cm)
Length:	8 in (20.3 cm)
Weight:	1 lb (454 g) with battery
Power Requirements:	TRI-450B: 100-120VAC TRI-450MB: 100-120VAC/12VDC (Also available in 230V & 240V versions)
Battery Pack:	Type: 12V, NiMH (rechargeable) Run time: 3.5 hours continuous Charge time: 2 hours

① Blue Light intensity reading taken with the Spectroline® 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.

CE

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127933	Particulate filter assembly
	129141	Standard 8 foot (2.4 m) AC power cord
	129145	Extra-long 20 foot (6.1 m) AC power cord
	129162	3.5 foot (1.1 m) DC power cord for "M" SERIES lamps
	BP-30	Battery pack with 12V rechargeable NiMH battery
	BR-150A	Smart AC charger for battery pack

IMAGE	PART #	DESCRIPTION
	CC-370A	Padded carrying case
	FP-450	Rubber bumper with dichroic lens
	PS-200A	Industrial power supply / primary cord: 8 feet (2.4 m); secondary cord: 20 feet (6.1 m).*
	PS-300A	In-line power supply / primary cord: 8 feet (2.4 m); secondary cord: 8 feet (2.4 m).*
	PSA-250A	AC/DC power supply adapter for "M" SERIES lamps
	UVS-40	Fluorescence-enhancing spectacles, yellow

*Available in 230V and 240V versions

Broad-Beam Configuration | **Cool Running** | **Instant-on Operation** | **Works In Daylight!**

BLUE LIGHT LED

BUILT-IN FANS
Maintains optimum light output

3 BLUE LIGHT LEDS
For wide area of coverage

PATENTED, THIN-FILM DICHROIC LENS
With rubber bumper protects LEDs from damage, improve contrast and fluorescent response

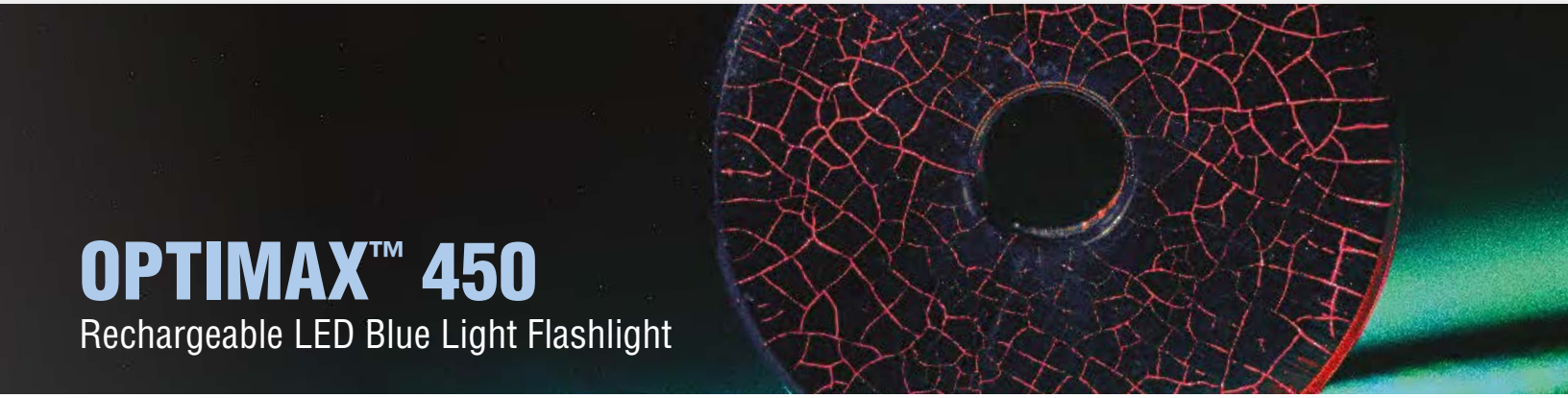
MOBILE MODEL

TWO REPLACEABLE CORD CHOICES
Standard or extra-long with AC plug and rubber boot

TRI-450MB

TRITAN™ 450MB Kit

Portable, battery-operated AC/DC lamp kit. Includes TRITAN™ 450 LED blue light lamp, rechargeable NiMH battery pack, power supply adapter with AC/DC cord sets, smart AC charger, fluorescence-enhancing yellow spectacles and padded carrying case.



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.

	OPX-450
MEETS SPECIFICATIONS **CEN/TR** 16638	✓
Nominal Steady-State Blue Light Intensity at 15 in (38 cm) ①	7,000 µW/cm²
Blue Light Coverage Area at 15 in (38 cm) at minimum 2,000 µW/cm²	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

① Blue Light intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

CE

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	125608	Battery stick with tail-cap
	127243	Belt holder
	CC-365	Hard carrying case

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!

ANODIZED ALUMINUM LAMP BODY
Minimizes corrosion and stands up to years of heavy use

CONVENIENT ON/OFF SWITCH
For easy one-handed operation

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

CHARGE STATUS INDICATOR LIGHT

ELECTRONIC INTENSITY STABILIZER
Assures consistent performance

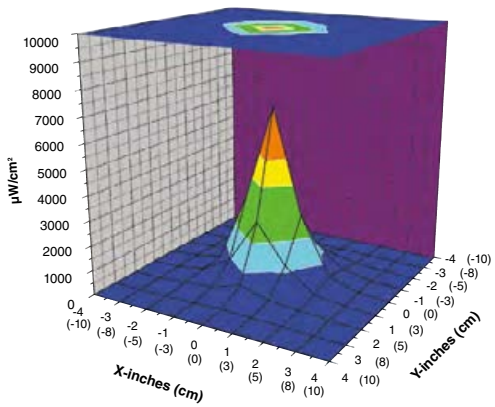
OPX-450

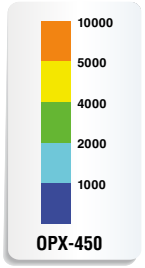
OPTIMAX™ 450 Kit

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.

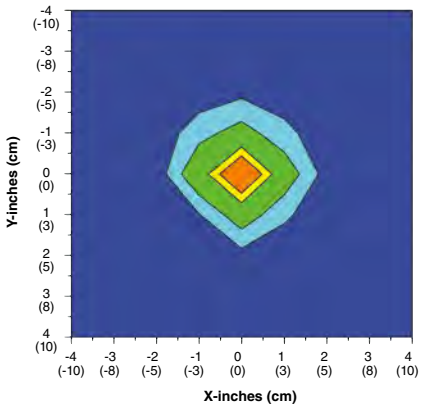
Blue Light Beam Profiles

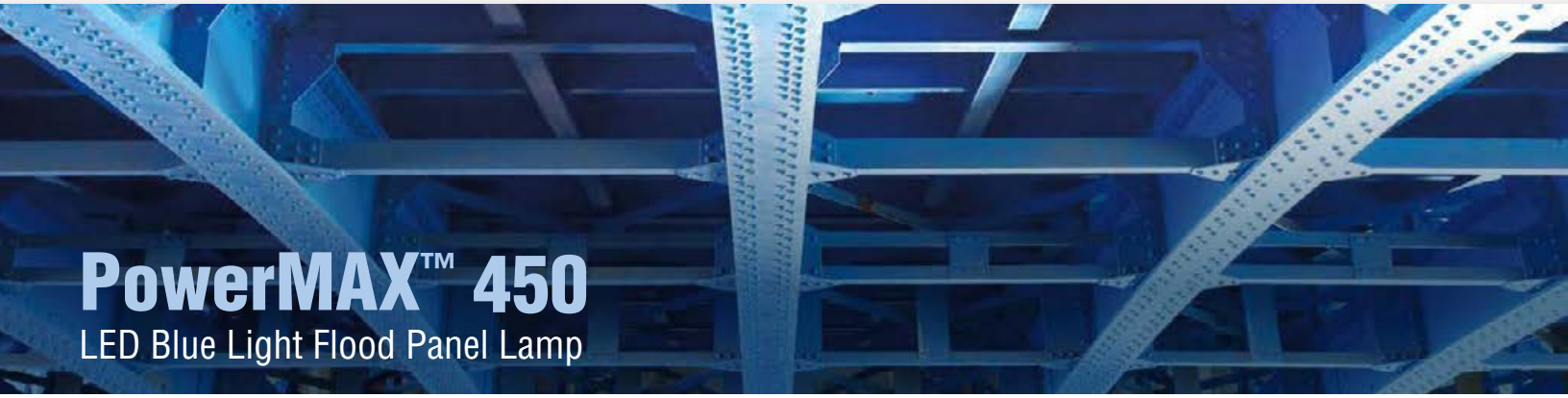
Surface Contour Profile at 15 in (38 cm)





Top Intensity Profile at 15 in (38 cm)





PowerMAX™ 450

LED Blue Light Flood Panel Lamp

The **PowerMAX™ 450 PM-1600B** flood lamp features a panel of 16 powerful blue light (450 nm) LEDs specially engineered for nondestructive testing applications when limiting the use of UV-A light is a requirement. This versatile, stationary light source can be installed overhead or in-line, and can be ganged together to provide an even wider coverage area.

	PM-1600B
Nominal Steady-State Blue Light Intensity at 15 in (38 cm) ①	10,000 µW/cm²
Blue Light Coverage Area at 15 in (38 cm) at minimum 2,000 µW/cm²	18 x 8 in (46 x 20 cm)
Cooling System	Built-in fan

Technical Features

Light Source:	(16) Blue light LEDs
Lamp Style:	Panel flood lamp
Dimensions: (L x W x H)	13.75 x 5.5 x 6 in (35 x 14 x 15 cm)
Weight:	9 lb (4 kg)
Power Requirements:	AC power (main AC power cord supplied with the unit) (Available in 120V, 230V, 240V and 100V versions)

① Blue Light intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

CE

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	127918	Particulate air filter
	127935	Retainer LED assembly faceplate
	128177	AC power cord
	CC-200	Connector cable for ganging lamps
	CP-100	Top connecting plate for ganging lamps longitudinally

IMAGE	PART #	DESCRIPTION
	CP-200	Top connecting plate for ganging lamps back-to-back (2 required)
	CP-300	Side connecting bracket for ganging lamps longitudinally (2 required)
	DF-450PM	Dichroic filter assembly
	UVS-40	Fluorescence-enhancing spectacles, yellow

Very Broad Coverage Area | **Cool Running** | **Large Parts Inspection** | **Customizable/ Gangable**

BUILT-IN FANS
Maintains optimum light output

EASILY MOUNTABLE
For overhead inspection or in-line applications

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

16 BLUE LIGHT LEDS
Provide large area of coverage

For applications requiring extremely large coverage area, the PowerMAX™ 450 can be quickly ganged together longitudinally (left) or back-to-back (right) using customized, easy-to-install connecting plates and brackets.

MAXIMA™ 3500 SERIES

Ultra-High-intensity UV-A Lamps

These super-powerful 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-3500**FL	**ML-3500**MS
Nominal Steady-State UV-A Intensity at 15 in (38 cm) ①	50,000 µW/cm²	5,700 µW/cm²	50,000 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 1,200 µW/cm²	6 in (15 cm) Diameter		
Ultra-High-intensity Output	✔		
Reflector Assembly	Spot reflector	Flood/anodized reflector	Spot reflector
AC/DC Mobile Version	✖		✔

① UV-A intensity reading taken with the Spectroline® 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 µW/cm² at 15 in (38 cm)

CE

Replacement Parts and Accessories

IMAGE	PART #	DESCRIPTION
	119584	MDL bulb, 35 watt
	2F350	UV diffusing filter
	2F958	UV filter

IMAGE	PART #	DESCRIPTION
	BLE-35RA	MDL bulb/coated spot reflector assembly
	BLE-35RAF	MDL flood bulb/reflector assembly
	BLE-36PRA	MDL bulb/polished spot reflector assembly

NOTE: All models come standard with 8 foot (2.4 m) primary and secondary cords

Ultra-High-intensity Output

Extra Wide Coverage

Very Bright Beam

Works In Daylight!

STAY-COOL
Impact-resistant and dent-proof housing

LIGHTWEIGHT
Solid-state ballast

INTEGRAL BULB
Reflector assembly

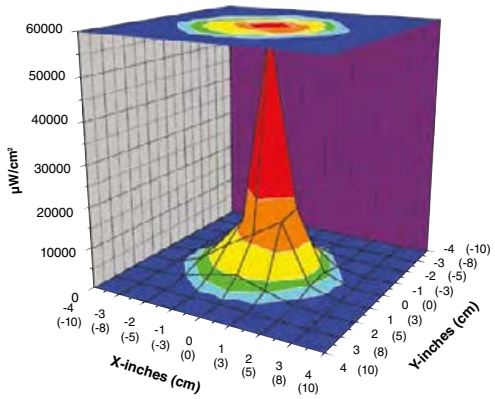
INSTANT ON/OFF/RESTRIKE
Grip-mounted, three-way rocker switch

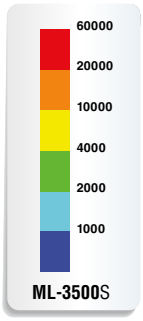
MOBILE MODEL
NiMH

ML-3500MS

UV-A Beam Profiles

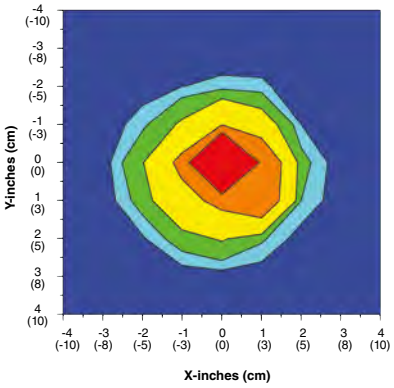
Surface Contour Profile at 15 in (38 cm)





ML-3500S

Top Intensity Profile at 15 in (38 cm)



SUPERFLOOD™ SERIES

Our Most Powerful UV-A Flood Lamps

These super-powerful and versatile lamps have been specially engineered for fluorescent penetrant and magnetic particle inspection, parts degreasing inspections and wash station inspections. Powerful, 400-watt metal halide bulb, combined with tempered, heat-resistant low solarization UV filters provide the highest intensity over the largest area.

TWIN-FILTER SYSTEM
Eliminates hazardous UV-B and UV-C radiation escaping from lamp

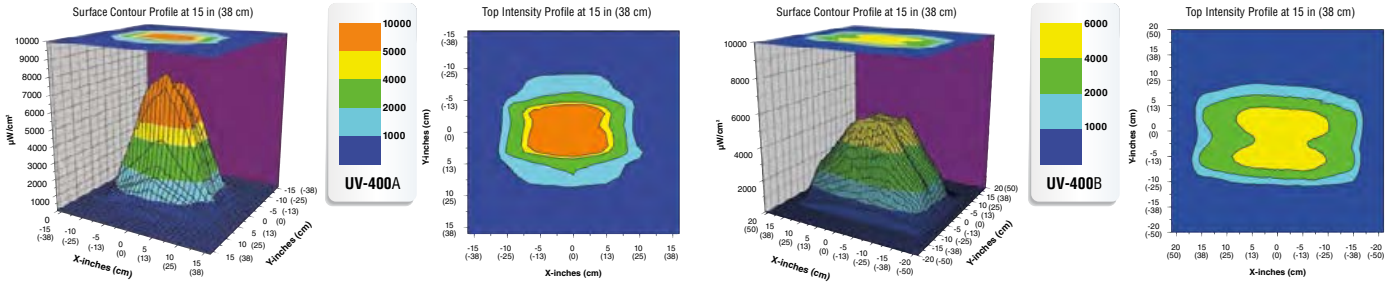
POWERFUL
400-watt metal halide bulb with tempered, heat-resistant low solarization UV filters

EASY BUILT-IN MOUNT
Attach unit over automated magnetic particle systems or above penetrant inspection booths

	UV-400A	UV-400B
Nominal Steady-State UV-A Intensity at 15 in (38 cm) ①	8,000 µW/cm²	5,000 µW/cm²
UV-A Coverage Area at 15 in (38 cm) at minimum 2,000 µW/cm²	16 x 10 in (41 x 25 cm)	27 x 15 in (69 x 38 cm)
UV-A Coverage Type	Features a concentrated-beam reflector designed to assure the highest concentrated UV-A intensity available	Features a unique broad-beam reflector designed to provide NDT inspectors with maximum uniformity of coverage over the largest area

① UV-A intensity reading taken with the Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

UV-A Beam Profiles



VIVID™ Replacement Bulb

- **UV-A LED replacement bulb**
- **Convert your mercury vapor HID lamp to modern LED technology**
- **Use with Spectroline® 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 (HID) **vs.** **109°F** (LED)

Environmental
Less environmental waste with fewer bulbs and energy efficient

P/N *129585

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)

CE

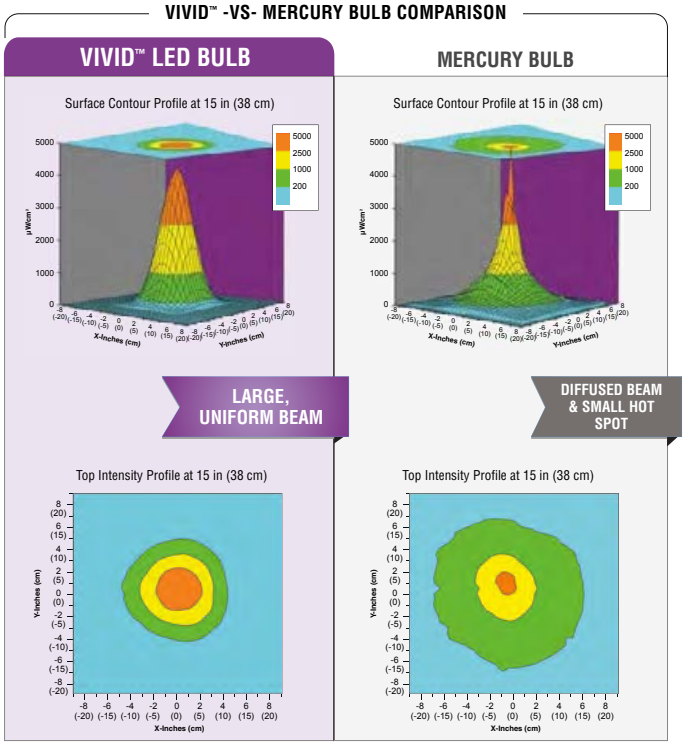
Works **seamlessly** in conjunction with the following Spectroline® HID lamps, saving you *both* time and money on bulb changes:

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.

VIVID™ -VS- MERCURY BULB COMPARISON



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 ± 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, Chinese 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 ± 5% with reference to NIST standards
Temperature Coefficient	± 0.025%/°C (0 to 50°C)
Power Requirements	Four "AAA" nickel-metal hydride batteries (rechargeable). AC charger included. *Available in 120V, 230V, 240V or 100V versions.*

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

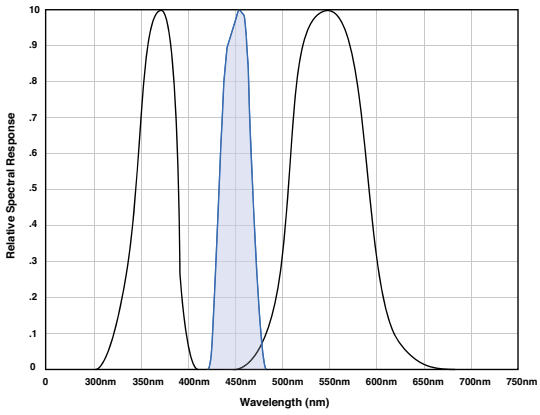
UV-A (365 nm) Irradiance	0-100 mW/cm²
Visible (555 nm) Illuminance	0-5,382 Lux (0-500 fc)

XP-4000 AccuPRO™ Plus
3-in-1 Sensor (UV-A/VIS/Blue)
Sensitive to UV, Visible and Blue Light

Conforms to **CEN/TR 16638**

Wavelength/Measurement Range

UV-A (365 nm) Irradiance	0-100 mW/cm²
Visible (555 nm) Illuminance	0-5,382 Lux (0-500 fc)
Blue (450 nm)	0-100 mW/cm²



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.

DUAL-WAVELENGTH SENSOR
Sealed with water-resistant housing

LARGE LCD SCREEN
4-digit autoranging display

PROTECTIVE RUBBER HOUSING
Rugged meter for better grip and to help prevent accidental breakage

Direct Connect

USB Cable Connect

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, Chinese 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/m²), candelas per square foot (cd/ft²) 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/m²
0 - 90,000 cd/ft²
0 - 285,000 fL

Technical Features

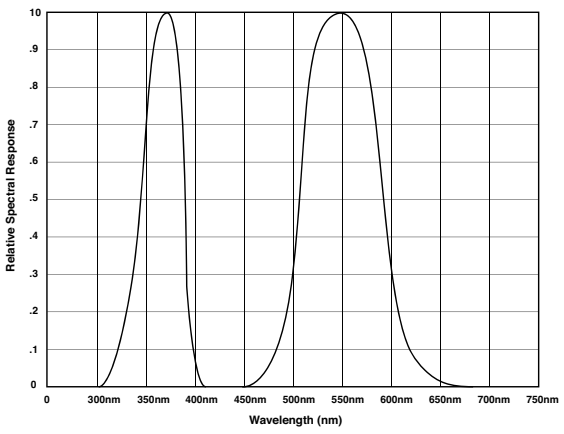
Readout Unit (XR-1000)	
Resolution	4-digit autoranging display
Screen	128 x 64 dot pixel chip on glass STN transmissive monochrome *LCD 2.25 in (5.7 cm) diagonal illuminated (backlit)*
Sample Rate	7.5 Hz (single sensor) 15 Hz (dual sensor)
Read Update	2 Hz
Overall Accuracy	Better than ± 5% with reference to NIST standards
Temperature Coefficient	± 0.025%/°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/cm² (0-100,000 µW/cm²)
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)

CE

XRP-3000 Kit Includes:

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

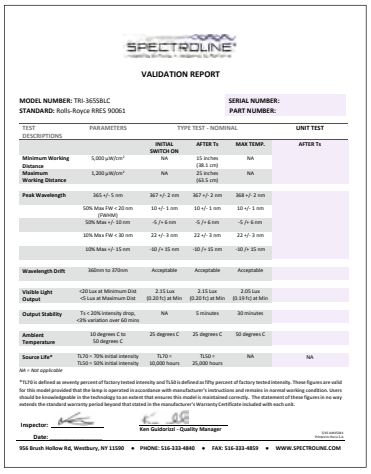


Sample Certificates of Conformance & Validation Reports

Our NDT inspection lamps come with unique Certificates of Conformance and Validation Reports, so end-users know that their lamps meet industry requirements and standards.

Intensity readings are taken with a Spectroline® AccuMAX™ Series meter, and is factory set to the value shown.

We stay one step ahead of **industry trends** and **technological innovation** to ensure you get the most rugged, comfortable, compliant lamps available today.



SPECTROLINE®

VALIDATION REPORT

MODEL NUMBER: TRI-365SBLC
STANDARD: Rolls-Royce RRES 90061

SERIAL NUMBER:
PART NUMBER:

TEST DESCRIPTIONS	PARAMETERS	TYPE TEST - NOMINAL			UNIT TEST
		INITIAL SWITCH ON	AFTER Tx	MAX TEMP.	AFTER Tx
Minimum Working Distance	5,000 µW/cm²	NA	15 inches (38.1 cm)	NA	
Maximum Working Distance	1,200 µW/cm²	NA	25 inches (63.5 cm)	NA	
Peak Wavelength	365 +/- 5 nm	367 +/- 2 nm	367 +/- 2 nm	368 +/- 2 nm	
	50% Max FW < 20 nm (FWHM)	10 +/- 1 nm	10 +/- 1 nm	10 +/- 1 nm	
	50% Max +/- 10 nm	-5 /+ 6 nm	-5 /+ 6 nm	-5 /+ 6 nm	
	10% Max FW < 30 nm	22 +/- 3 nm	22 +/- 3 nm	22 +/- 3 nm	
	10% Max +/- 15 nm	-10 /+ 15 nm	-10 /+ 15 nm	-10 /+ 15 nm	
Wavelength Drift	360nm to 370nm	Acceptable	Acceptable	Acceptable	
Visible Light Output	<20 Lux at Minimum Dist <5 Lux at Maximum Dist	2.15 Lux (0.20 Fc) at Min	2.15 Lux (0.20 Fc) at Min	2.05 Lux (0.19 Fc) at Min	
Output Stability	Tx < 20% intensity drop, <3% variation over 60 mins	NA	5 minutes	30 minutes	
Ambient Temperature	10 degrees C to 50 degrees C	25 degrees C	25 degrees C	50 degrees C	
Source Life*	TL70 = 70% initial intensity TL50 = 50% initial intensity		TL70 = 10,000 hours	TL50 = 25,000 hours	NA

NA = Not applicable

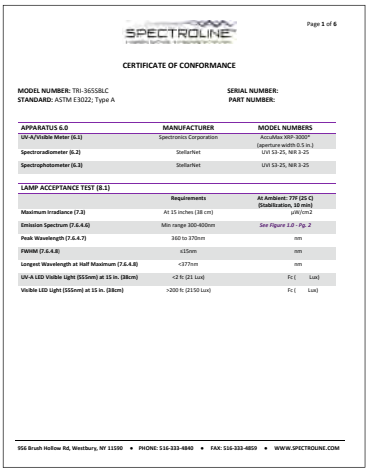
*TL70 is defined as seventy percent of factory tested intensity and TL50 is defined as fifty percent of factory tested intensity. These figures are valid for this model provided that the lamp is operated in accordance with manufacturer's instructions and remains in normal working condition. Users should be knowledgeable in the technology to an extent that ensures this model is maintained correctly. The statement of these figures in no way extends the standard warranty period beyond that stated in the manufacturer's Warranty Certificate included with each unit.

Inspector:
Date:
Ken Guidortoi - Quality Manager

956 Brush Hollow Rd, Westbury, NY 11590 • PHONE: 516-333-4840 • FAX: 516-333-4859 • WWW.SPECTROLINE.COM

Rolls-Royce RRES 90061

Fully serialized **Validation Reports** provided with all RRES 90061 compliant lamps.



SPECTROLINE®

Page 1 of 6

CERTIFICATE OF CONFORMANCE

MODEL NUMBER: TRI-365SBLC
STANDARD: ASTM E3022, Type A

SERIAL NUMBER:
PART NUMBER:

APPARATUS 6.0	MANUFACTURER	MODEL NUMBERS
UV-A/Visible Meter (6.1)	Spectronics Corporation	AccuMax XIP-3000* (aperture width 0.5 in.)
Spectroradiometer (6.2)	StellarNet	UVI S3-25, NIR 3-25
Spectrophotometer (6.3)	StellarNet	UVI S3-25, NIR 3-25

LAMP ACCEPTANCE TEST (8.1)

	Requirements	At Ambient: 77F (25 C) (Stabilization, 10 min)
Maximum Irradiance (7.3)	At 15 inches (38 cm)	µW/cm2
Emission Spectrum (7.6.4.6)	Min range 300-400nm	*See Figure 1.0 - Pg. 2*
Peak Wavelength (7.6.4.7)	360 to 370nm	nm
FWHM (7.6.4.8)	≤15nm	nm
Longest Wavelength at Half Maximum (7.6.4.8)	<377nm	nm
UV-A LED Visible Light (555nm) at 15 in. (38cm)	<2 fc (21 Lux)	Fc (Lux)
Visible LED Light (555nm) at 15 in. (38cm)	>200 fc (2150 Lux)	Fc (Lux)

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ASTM E3022-15

Certificates of Conformance as defined by ASTM E3022-15 standard for emission characteristics and requirements for LED UV-A lamps are supplied with each lamp.

SPECTROLINE®

CERTIFICATE OF LIGHT OUTPUT

This is to certify the below referenced item meets the UV-A Lamp Output Measurements (Intensity and visible) for LED UV-A light, producing a Peak Wavelength at 360 - 370 nm. (365 ± 5 nm) as measured with a spectroradiometer, in accordance with EN ISO 3059:2012(E) requirements.

Product Name: QUADRAY® 365 AC/DC 5-Series
Product Number: _____
Serial Number: _____

The following light measurements were obtained using a Spectroline® AccuMAX™ XR-1000 and XIP-3000 at 12" (35 cm) with battery-operated lights at full charge:

UV-A LED Measurement – Standard Setting

UV-A intensity reading @ 365nm: 4,200 – 4,900 microW/cm²

Visible light reading @ 555nm: With clear filter: 0.4 – 0.6fc (4.3 – 6.4 lm)
With black light filter: 0.2 – 0.4fc (2.2 – 4.3 lm)

White light LED Measurement

Visible light reading @ 555nm: High: 275 – 358fc (2960 – 3767 lm)

Visible light reading @ 555nm: Low: 7 – 15fc (75.3 – 161.4 lm)

Inspector: _____
Date: _____

Steve Bissell
Quality Manager

EN ISO:3059 + Wavelength Compliance

Certificates of Light Output provided with each individual lamp with unique product serial number. These certify LED wavelength requirements and output measurements for each lamp at the factory.

ISO 9001:2008

Compliance with the new ISO standard reinforces the confidence that customers have in Spectronics Corporation's commitment to quality, not only in the present but also in the future.

Warranty

All equipment is warranted against defects in manufacture. Spectronics Corporation's obligation under this warranty is limited to repairing or replacing, at the option of Spectronics Corporation, any part(s) of the product which, if properly installed, used and maintained, proves upon factory examination to have been defective in materials or workmanship within 12 months from the date of delivery to the customer, including LEDs and BLE-LED bulb.

This warranty does not apply to any component which (1) is normally consumed in operation or (2) has a normal life inherently shorter than the warranty stated. For example, bulb, filters and rechargeable batteries are warranted for 30 days; the 100S/M-PQL bulb is warrantied for 90 days. In addition, Spectronics Corporation does not warrant any instrument that has been subjected to misuse, negligence or accident, or has been repaired or altered by anyone other than Spectronics Corporation.

This warranty is in place of all other warranties of quality. There are no other warranties either oral, written, express, implied or statutory. IMPLIED WARRANTIES OF FITNESS FOR PURPOSE AND MERCHANTABILITY ARE EXCLUDED. This warranty and your remedies thereunder are solely as stated in this form. In no event shall Spectronics Corporation be liable for special, indirect, incidental or consequential damages, nor for any damages arising out of delay in shipment or production.

Spectronics Corporation reserves the right to alter product specifications without notice. Spectronics is under no obligation to make similar changes in its products previously produced.

Order Information | Technical Assistance | Local Sales Representatives | Authorized Distributors

Product/Customer Support & Technical Assistance

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:
Orders@Spectroline.com

Get Support:
CustomerService@Spectroline.com
or call (516) 333-4840

See More:
Scan QR Code

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 **marketing@spectroline.com**

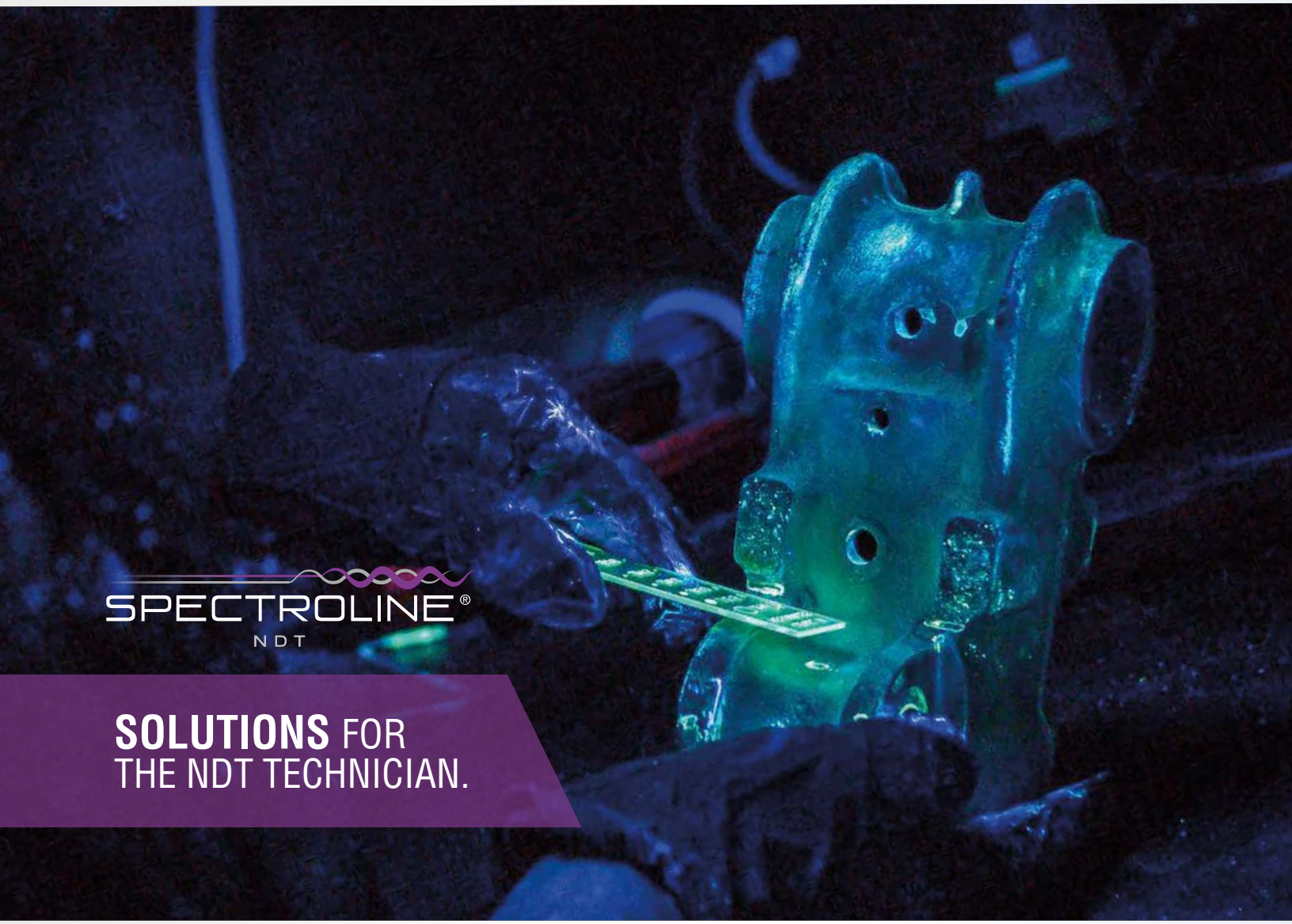
Company Background

Since 1955, Spectronics Corporation has been **the industry leader of inventing and manufacturing fluorescent dyes and materials.** More than six decades since its inception, the goal of Spectronics is still the same — to produce effective, top-quality products that are on the cutting edge of today's technology with the utmost dedication to customer satisfaction.

Our NDT product line is no exception. We have worked alongside NDT experts, engineers, product designers, and standards committee members to carefully develop our new compliant lamps to meet the highest standards.

SPECTRONICS HEADQUARTERS, WESTBURY NY

THE WORLD LEADER IN **NDT FLUORESCENT** SURFACE INSPECTION



SPECTROLINE®
NDT

SOLUTIONS FOR
THE NDT TECHNICIAN.

PROUD MEMBERS OF:

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Standards Worldwide

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