SPECTROLINE®

Inspection Products for Nondestructive Testing

Solutions for the NDT Technician









ISO 9001:2008
CERTIFIED COMPANY

NDT: AN OVERVIEW

Nondestructive testing (NDT) is a procedure used to examine and/or inspect materials and components to locate surface and subsurface defects in a way that allows such materials to be examined without changing or destroying their original design or structure.

NDT plays a crucial role in everyday life. It is necessary to ensure structural integrity, safety and reliability in aircraft, motor vehicles, pipelines, seafaring vessels, bridges, trains, tunnels, power stations, refineries and oil platforms. All are inspected using some method of nondestructive testing.

Nondestructive testing is also a quality assurance production and management tool which can provide impressive results when used correctly. It requires an understanding of the various methods available, their capabilities and limitations, knowledge of the relevant standards and specifications for performing the tests.

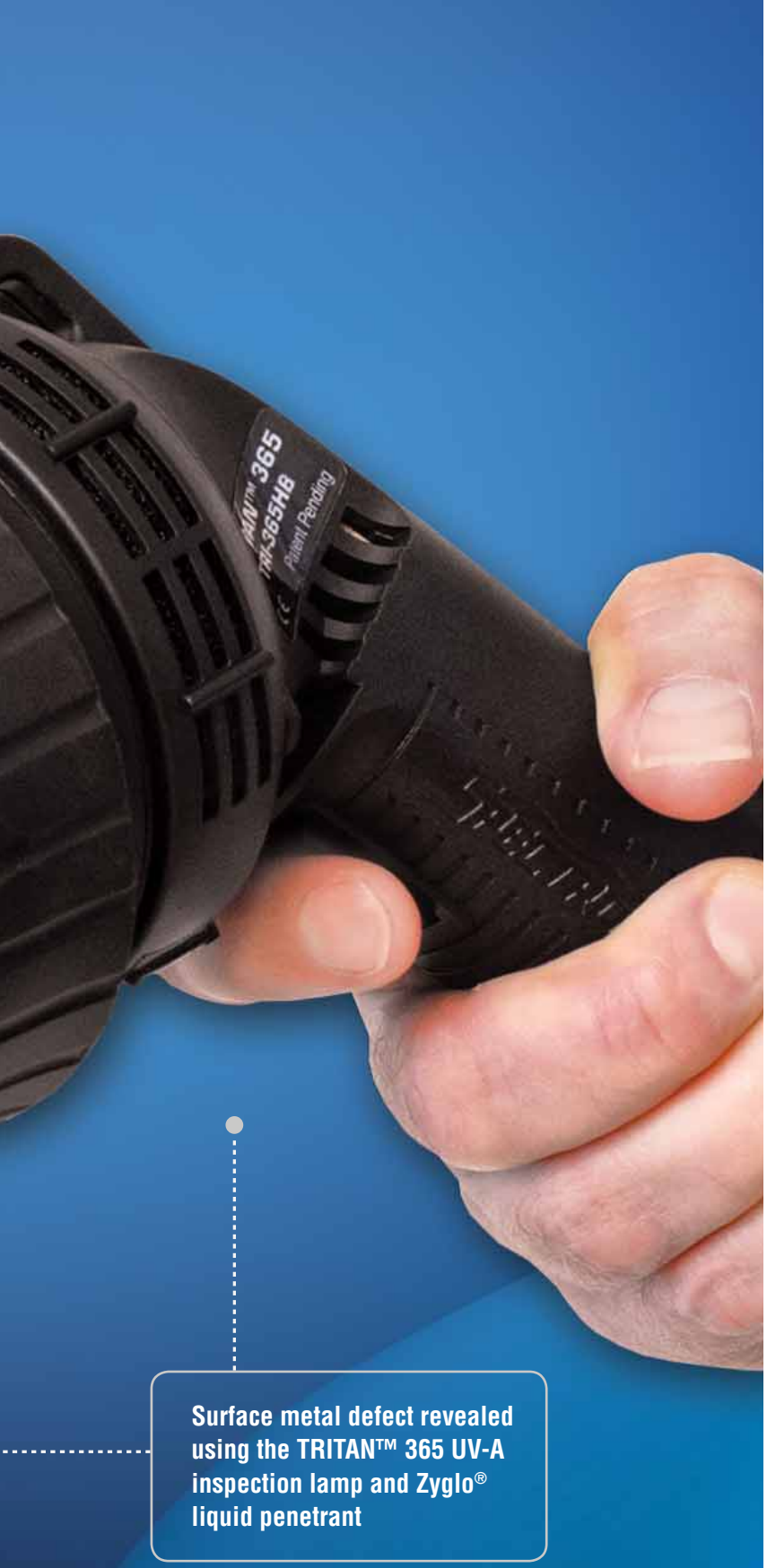
Materials, products and equipment that fail to achieve their design requirements or projected life due to undetected defects may require expensive repair or early replacement. Such defects may also be the cause of unsafe conditions or catastrophic failure, as well as the loss of revenue due to unplanned shutdowns.

Nondestructive testing can be applied to each stage of an item's development, manufacture or construction. The item's materials and assembly can be examined using NDT and either accepted, rejected or repaired. NDT techniques can then be used to monitor the integrity of the item or structure throughout its service life.

The most commonly used NDT methods are visual inspection, liquid penetrant inspection, magnetic particle inspection, Eddy current inspection, acoustic emission, ultrasonic inspection and radiography.







Surface metal defect revealed using the TRITAN™ 365 UV-A inspection lamp and Zyglo® liquid penetrant

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Spectronics Corporation manufactures a wide array of medium and high-intensity inspection lamps and products that are used to detect and identify surface and subsurface flaws in the performance of nondestructive testing utilizing the visual inspection, liquid penetrant and magnetic particle methods. For more information see www.spectroline.com.

OLX-365 Series

OPTI-LUX™ 365 UV-A LED Inspection Flashlights

Affordable, Super-Compact and Designed Specifically for NDT!

Feature a powerful UV-A (365 nm) LED light source coupled with a rugged anodized lamp body. Lightweight and compact, 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 black light filter.



- Choice of nominal steady-state UV-A intensity of ***10,000 µW/cm²*** or maximum of ***4,500 µW/cm²*** at 15 inches (38 cm)
- Coverage area up to 2.5 inch (6.3 cm) diameter at 15 inches (38 cm), with minimum UV-A intensity of ***2,000 µW/cm²***
- Anodized aluminum lamp body minimizes corrosion and stands up to years of heavy use
- Instant-on operation; lamp reaches full intensity immediately!
- Convenient on/off switch for easy, one-handed operation
- 100,000-hour LED service life
- Powered by one rechargeable lithium-ion battery with an extra battery included with the lamp. Each provides 4 hours of continuous inspection between charges.
- Meets ASTM UV-A intensity and wavelength specifications for LPT and MPT
- Both high- and standard-intensity versions are available with internal black light filter. Externally mounted black light filter with rubber bumper can be purchased as an accessory.
- ***Certificate of compliance*** for both wavelength and output measurements supplied with every lamp





OPTI-LUX™ 365 flashlight with **BF-365LX** external black light filter accessory

Model	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm) ①	Visible light measurement	Diameter of UV-A coverage area at 15 inches (38 cm)
OLX-365 High intensity, with clear filter	10,000 µW/cm^2	0.8 foot-candles (8.6 lux)	2 inch (5.0 cm)
OLX-365B High intensity, with internal black light filter	10,000 µW/cm^2	0.4 foot-candles (4.3 lux)	2 inch (5.0 cm)
OLX-365FL Standard intensity, with clear filter	4,500 µW/cm^2 maximum ②	0.3 foot-candles (3.2 lux)	2.5 inch (6.3 cm)
OLX-365BFL Standard intensity, with internal black light filter	4,500 µW/cm^2 maximum ②	0.2 foot-candles (2.1 lux)	2.5 inch (6.3 cm)

Light Source:	UV-A LED
Lamp Style:	Cordless flashlight
Lamp Head Diameter:	1.25 in (3.2 cm)
Length:	5.9 in (15 cm)
Weight (*w/Battery*):	4.6 oz (130 g)
Power Requirement:	One 3.7V 2200mA/Hr lithium-ion battery (rechargeable)
Run Time:	4 hours (continuous)
Charge Time:	4 hours (one or two batteries)
Charging Cradle:	Two-battery capability with AC and DC cord sets

① All UV-A intensity readings taken with Spectroline® AccuMAX™ Series meter, and are factory set to the values shown

② To address aerospace industry concerns



OPTI-LUX™ 365 Series flashlights come complete with lanyard, belt holster, two rechargeable batteries, smart charging cradle with AC and DC cord sets, UV-absorbing spectacles and a padded carrying case.

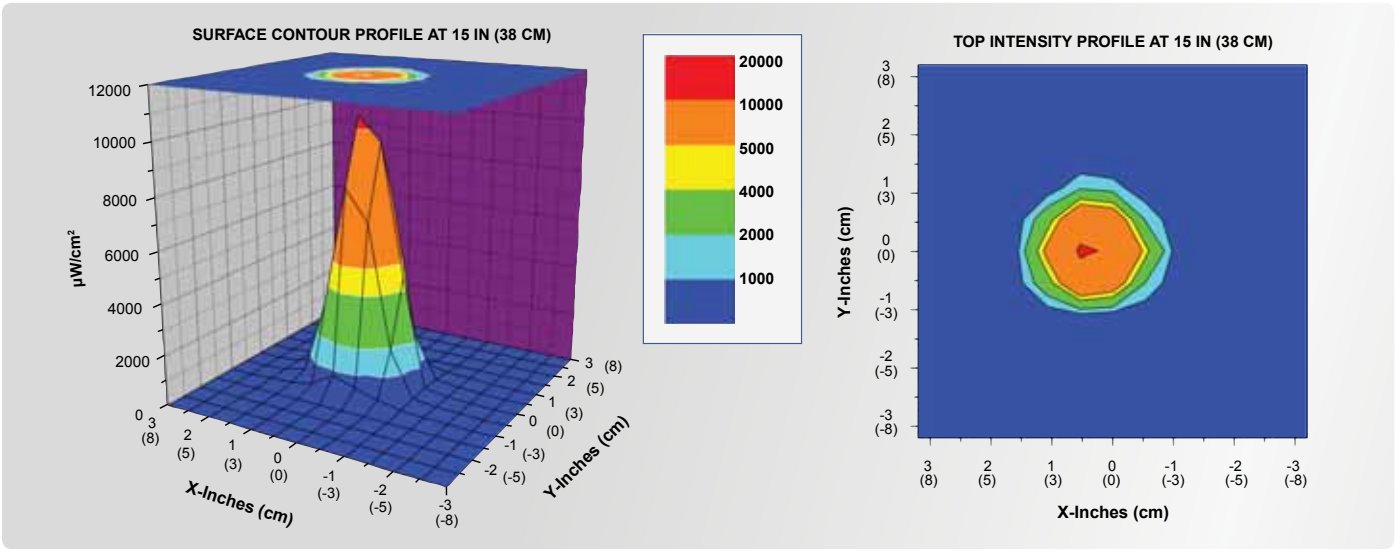
Replacement Parts & Accessories

BF-365LX	External black light filter with rubber bumper
127423	Dome lens
127568	Lithium-ion battery (rechargeable)
127607	Internal black light filter
127785	Internal clear filter
128217	Battery charging cradle with AC cord
128225	DC cord set
127574	Belt holster
UVS-30	UV-absorbing spectacles
CC-365	Carrying case

HIGH-INTENSITY MODELS

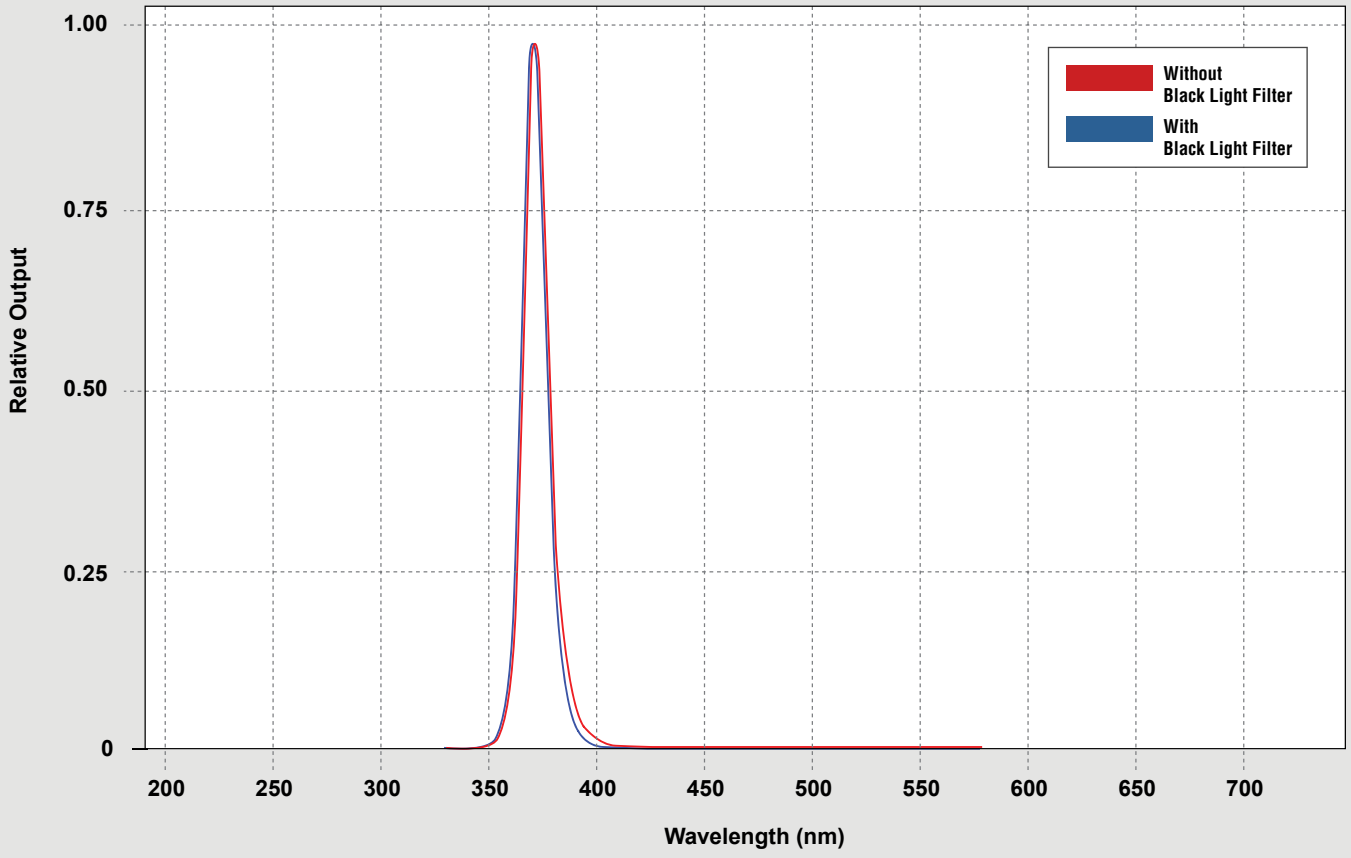
OPTI-LUX™ 365 Series flashlights are available in two ***high-intensity*** models that are designed for NDT inspection applications requiring high UV-A output. The **OLX-365** is equipped with a clear filter, while the **OLX-365B** comes with an internal black light filter that reduces the output of wavelengths longer than 400 nm. Both versions provide a nominal steady-state UV-A intensity of ***10,000 µW/cm²*** at 15 inches (38 cm).

UV-A BEAM PROFILE



NORMALIZED UV IRRADIANCE

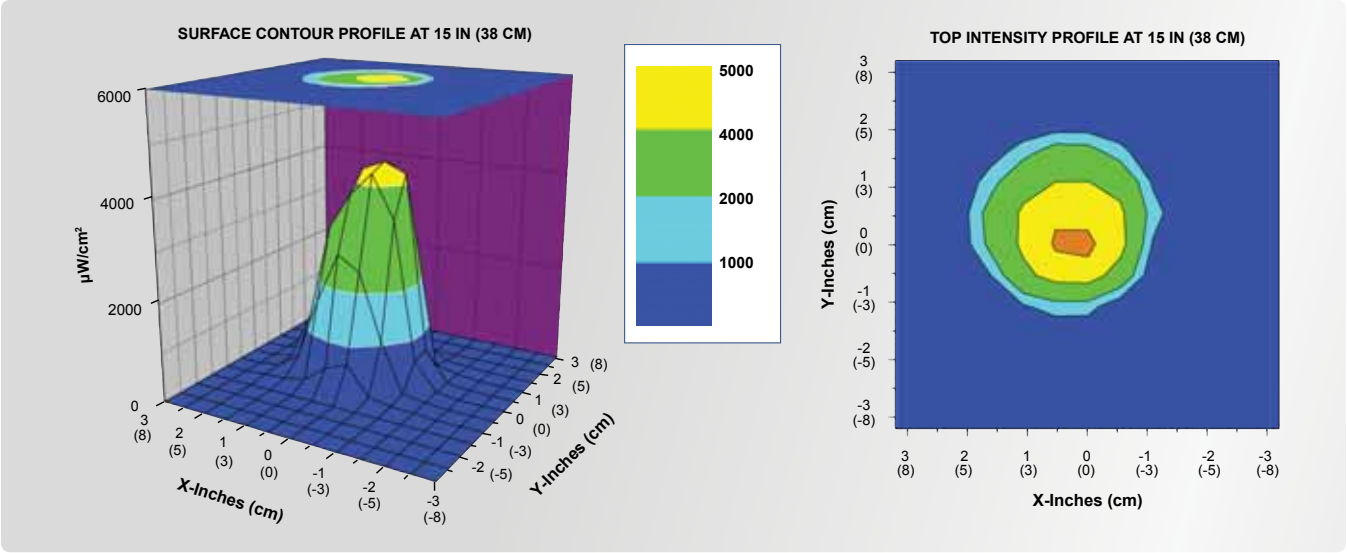
Typical wavelength output profile of OPTI-LUX™ 365 with and without internal black light filter, with peak at 365 nm.



STANDARD-INTENSITY MODELS

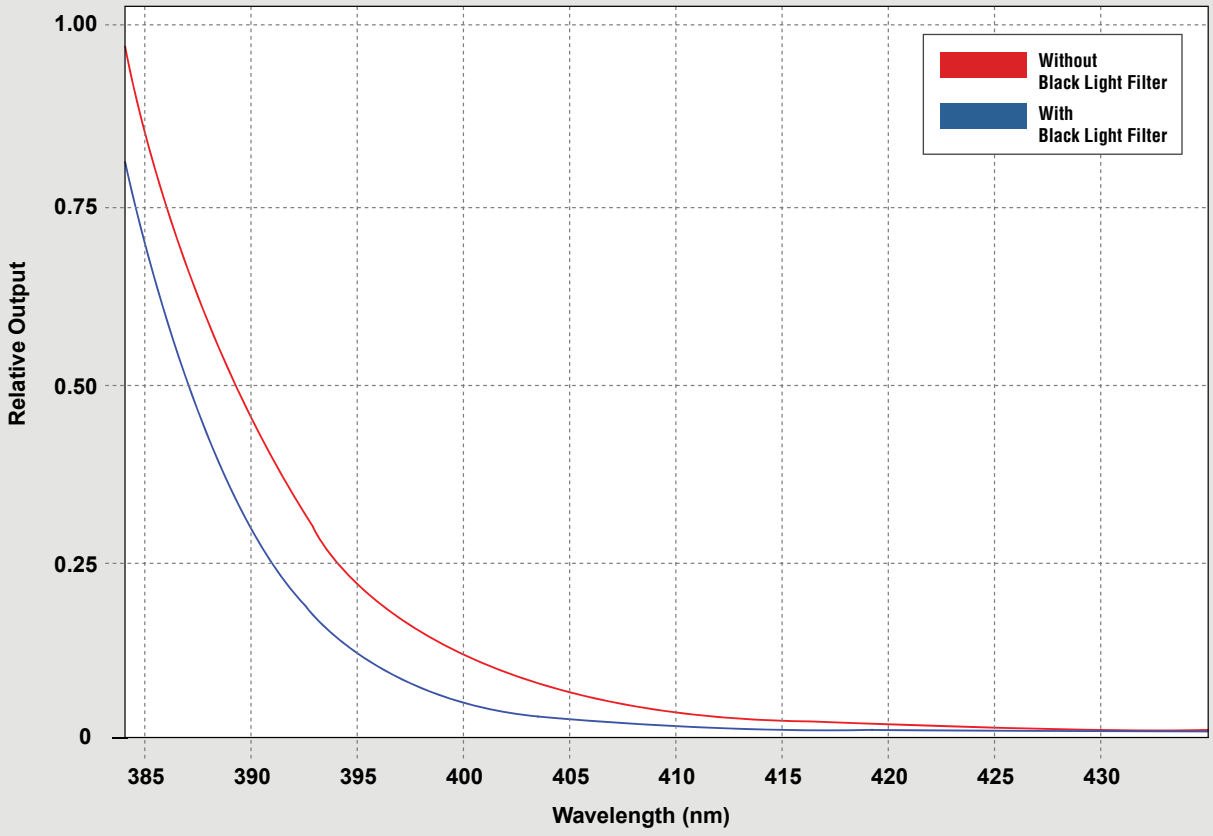
OPTI-LUX™ 365 flashlights are also available in two ***standard-intensity*** models that are designed for inspection applications requiring limited UV-A output. The **OLX-365FL** is equipped with a clear filter, while the **OLX-365BFL** comes with an internal black light filter that reduces the output of wavelengths longer than 400 nm. These lamps also offer a larger coverage area compared to high-intensity models. Both versions provide a nominal steady-state UV-A intensity of ***4,500 µW/cm²*** maximum at 15 inches (38 cm), and comply with aerospace industry standards.

UV-A BEAM PROFILE



SELECT WAVELENGTHS WITH AND WITHOUT INTERNAL BLACK LIGHT FILTER

As the wavelength of the OPTI-LUX™ 365 moves into the visible light range, the black light filter significantly reduces the UV-A output of the lamp by as much as 50% at 400 nm.



OPX-365

OPTIMAX™ 365 UV-A LED Inspection Flashlight

(U.S. and foreign patents pending)

Powerful, rechargeable, high-intensity UV-A inspection flashlight featuring state-of-the-art, ultra-hi-flux LED technology!

- Nominal steady-state UV-A intensity of ***18,000 µW/cm²*** at 15 inches (38 cm)
- 100,000-hour LED service life
- Low visible light emission — less than 2 foot-candles (22 lux)
- Electronic Intensity Stabilizer assures consistent performance. Beam strength will not weaken between charges!
- Instant-on operation. Lamp reaches full intensity immediately!
- Rubber lamp protector prevents damage to LED head
- Ergonomic, portable and rugged. Anodized aluminum lamp body minimizes corrosion and stands up to years of heavy use.
- Powered by a rechargeable NiMH battery. Provides 90 minutes of continuous inspection between charges.

Also available: DF-365 diffusing filter (sold separately).





OPTIMAX™ 365 UV-A LED Inspection Flashlight comes complete with rubber lamp protector, smart AC and DC chargers, UV-absorbing spectacles, belt holster and padded carrying case.

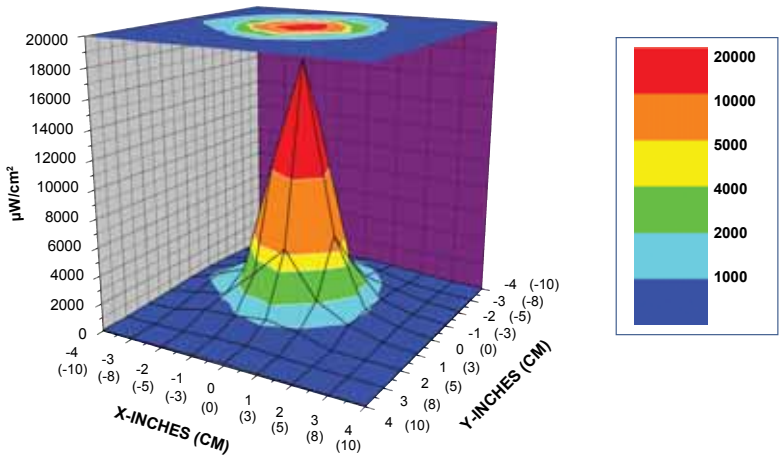
LAMP SPECIFICATIONS

Style	Cordless flashlight body with UV-A LED lamp head
Length	8.0 inch (20.3 cm)
Weight *(with Battery)*	11.8 oz (335 g)
Power Requirement	3.6V, 2 AH NiMH internal battery stick (rechargeable)
Run Time	90 minutes (continuous)
Charge Time	4 hours
Spectacles	UVS-30 UV-absorbing, clear

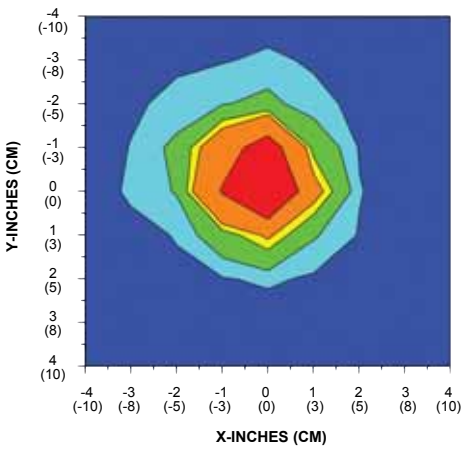
CE

UV-A BEAM PROFILE

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)



TOP INTENSITY PROFILE AT 15 IN (38 CM)



OPK-300N

OPTIMAX™ Multi-Lite™ NDT Inspection Kit

(U.S. patent no. 5,905,268; foreign patents pending)

A New Powerful, Versatile, Multi-LED, NDT Light Source!

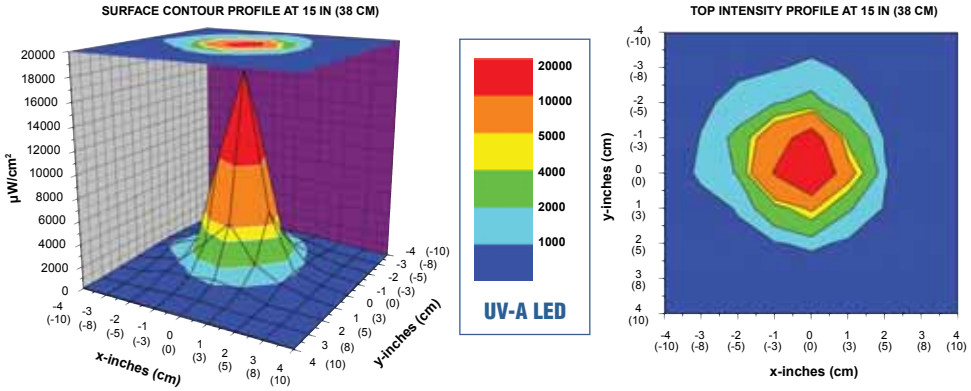
Features three Qwik-Connect™ interchangeable LED lamp heads that connect to a rugged, black-anodized flashlight body. It provides single-wavelength illumination in UV-A and blue light, and is ideal for both pre-screening of fluorescent particles in ambient light conditions and full-fledged NDT inspections utilizing magnetic particles or fluorescent penetrants. A convenient white light LED provides general illumination of dark work areas.

- Super-powerful LED optical output with ultra-high intensity 365 nm UV-A and 450 nm blue light performance
- Provides nominal steady-state intensity of ***18,000 µW/cm²*** (UV LED) or ***7,000 µW/cm²*** (blue light LED) at 15 inches (38 cm)
- 100,000-hour LED service life
- Blue light LED with patented thin-film dichroic lens filters out long-wave visible light
- Electronic Intensity Stabilizer ensures consistent performance. Beam strength will not weaken between charges!
- Instant-on operation. Lamp reaches full intensity immediately!
- Lightweight, cordless, ergonomic design eliminates fatigue
- Powered by a rechargeable NiMH battery. Provides 90 minutes of continuous inspection between charges (smart AC and DC chargers included).

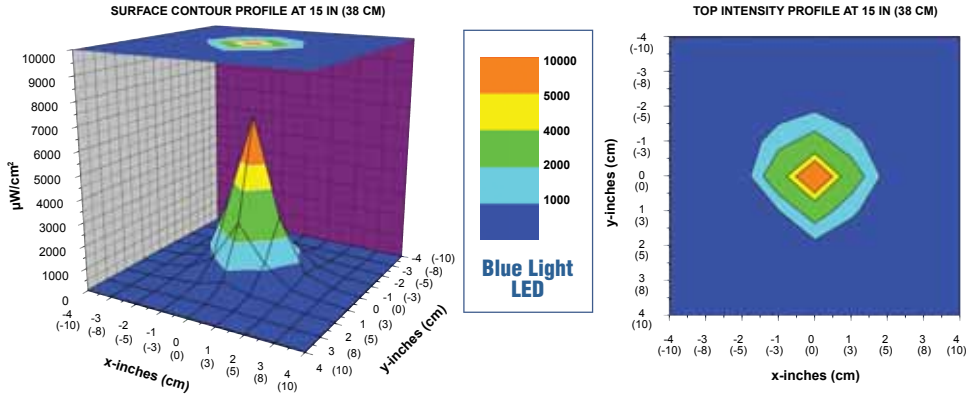


OPK-300N Multi-Lite™ Inspection Kit comes complete with three storage pouches for the LED lamp heads, smart AC and DC battery chargers, UV-absorbing spectacles, fluorescent-enhancing, yellow spectacles and a padded carrying case.

UV-A BEAM PROFILE



BLUE LIGHT BEAM PROFILE



LAMP SPECIFICATIONS

Style	Cordless flashlight body with three interchangeable LED lamp heads
Length	9.0 inch (22.9 cm)
Weight *(with Battery)*	15.3 oz (434 g)
Power Requirement	3.6V, 2 AH NiMH internal battery stick (rechargeable)
Run Time	90 minutes (continuous)
Charge Time	4 hours
Spectacles	UVS-30 UV-absorbing, clear UVS-40 fluorescent-enhancing, yellow

CE

TRI-365 Series

TRITAN™ 365 Multi-LED, Broad-Beam UV-A Inspection Lamps



Feature three ultra-hi-flux UV-A LEDs for fluorescent inspection, plus a convenient white light LED to scan for 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.

Available in three models to meet your specific NDT inspection requirements: high-intensity, standard-intensity and standard-intensity with integral black light filters.

- Choice of one high-intensity model with a nominal steady-state UV-A intensity of ***9,000 µW/cm²*** or two standard-intensity models, both with a maximum UV-A intensity of less than ***5,000 µW/cm²*** at 15 inches (38 cm)
- Large 4 inch (10 cm) diameter coverage area at 15 inches (38 cm), with a minimum UV-A intensity of ***2,000 µW/cm²***
- Low visible light emission — less than 2 foot-candles (22 lux)
- 100,000-hour LED service life
- Grip-mounted, three-way rocker switch (white light/off/UV) for easy control of light sources
- Built-in fans keep LEDs cool to maintain optimum light output during extended use
- Long-lasting UV-A lenses reduce the rate of solarization
- Rubber bumper with Borofloat® glass lens protects LEDs from damage
- Modular construction for easy servicing in the field
- Choice of standard 8 foot (2.4 m) or extra-long 20 foot (6.1 m) heavy-duty power cord with AC plug and rubber boot. Also available: Optional in-line power supply or industrial power supply with cord sets (sold separately).
- Meets ASTM UV-A intensity and wavelength specifications for LPT and MPT
- ***Certificate of compliance*** for both wavelength and output measurements supplied with every lamp
- UV-absorbing spectacles and soft carrying case included



TRITAN™ 365 faceplate shown with (left) and without (right) integral black light filters.





TRITAN™ 365 shown with optional PS-200A (above) and PS-300A (below) power supplies.



Model	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm) ①	Visible light measurement	Diameter of UV-A coverage area at 15 inches (38 cm)
TRI-365HB High intensity, with clear filter	9,000 µW/cm^2	< 2 foot-candles (22 lux)	4 inch (10 cm)
TRI-365DB Standard intensity, with clear filter	< 5,000 µW/cm^2 maximum ②	< 2 foot-candles (22 lux)	4 inch (10 cm)
TRI-365DBB Standard intensity, with integral black light filters	< 5,000 µW/cm^2 maximum ②	< 2 foot-candles (22 lux)	4 inch (10 cm)

Light Source:	3 UV-A LEDs, 1 White Light LED
Lamp Style:	Pistol grip
Lamp Head Diameter:	3.25 in (8.25 cm)
Length:	8.0 in (20.3 cm)
Weight:	1 lb (454 g)
White Light LED Intensity:	400 foot-candles (4,306 lux)
Power Requirements:	
AC Lamp (TRI-365DB, TRI-365DBB, TRI-365HB)	120VAC*
AC/DC Lamp (TRI-365MDB, TRI-365MDBB, TRI-365MHB)	120VAC*/12VDC
Battery Pack:	
Type	12V, NiMH (rechargeable)
Run Time	3.5 hours (continuous)
Charge Time	2 hours

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

① All UV-A intensity readings were taken with the Spectroline® AccuMAX™ Series meter, and are factory set to the values shown

② To address aerospace industry concerns

CE



Also Available:

TRITAN™ 365 M-Series portable, battery-operated AC/DC lamp kits. Include TRITAN™ 365 UV lamp, rechargeable NiMH battery pack, power supply adapter with AC and DC cord sets, smart AC charger, UV-absorbing spectacles and soft carrying case.

Replacement Parts & Accessories

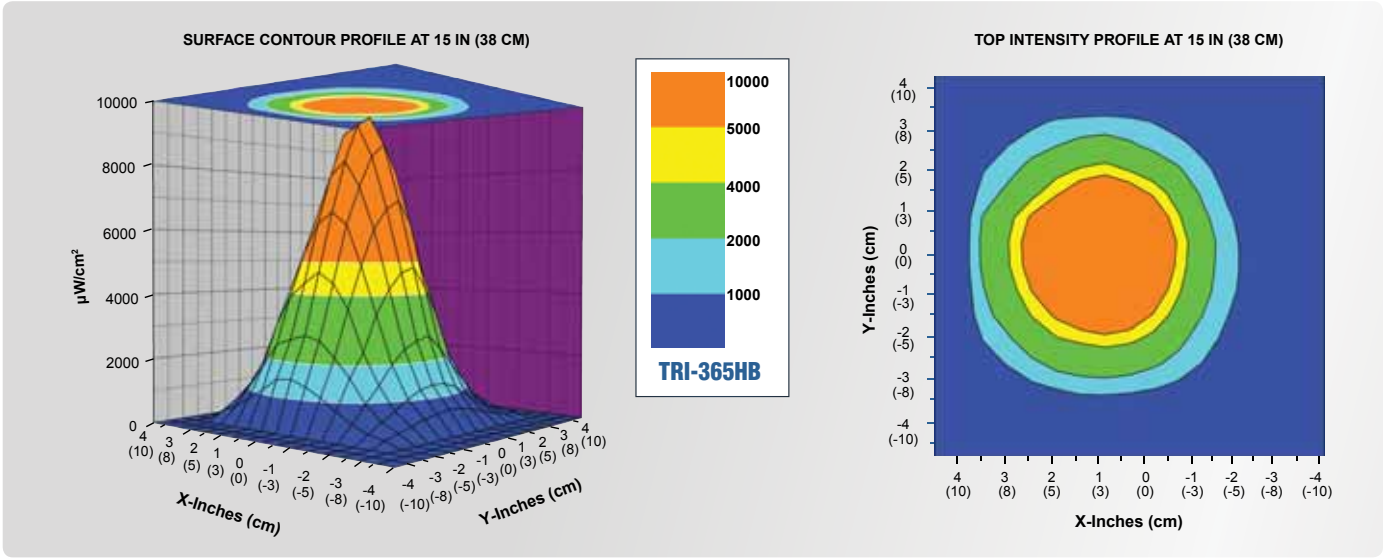
129141	Standard, 8 foot (2.4 m) AC power cord
129145	Extra-long, 20 foot (6.1 m) AC power cord
129162	3.5 foot (1.1 m) DC power cord for "M" series lamps
127933	Particulate filter assembly
127955	Standard faceplate
128196	Faceplate with integral black light filters
BP-30	Battery pack with 12V rechargeable NiMH battery
BR-150A	Smart AC charger
CC-370A	Soft carrying case
FP-365	Rubber bumper with Borofloat® glass
PSA-250A	AC/DC power supply adapter for "M" series lamps
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).
UVS-30	UV-absorbing spectacles

HIGH-INTENSITY MODEL

UV-A BEAM PROFILE

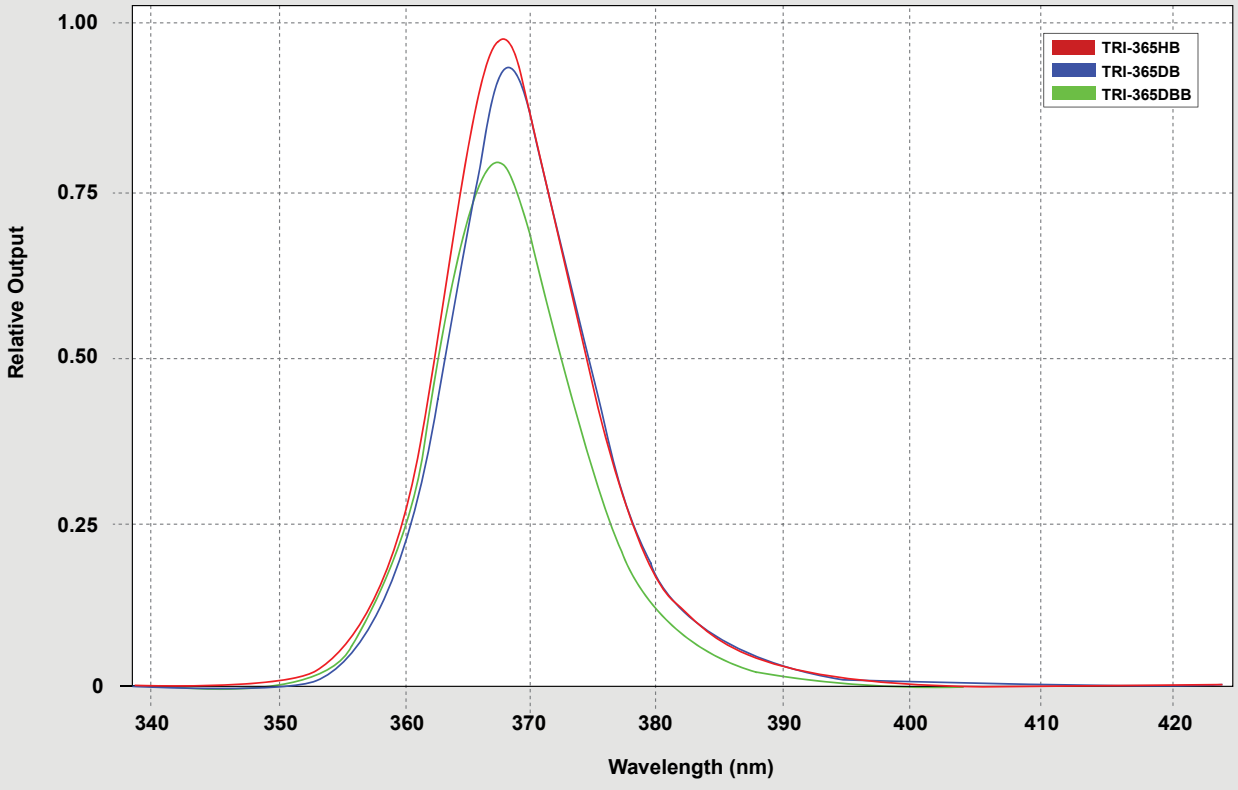
The **TRITAN™ 365** lamp is available in a ***high-intensity*** model specifically designed for NDT inspection applications requiring high UV-A output.

The **TRI-365HB** comes equipped with a clear glass filter and is "tuned" to provide a nominal steady-state UV-A intensity of ***9,000 µW/cm²*** at 15 inches (38 cm).



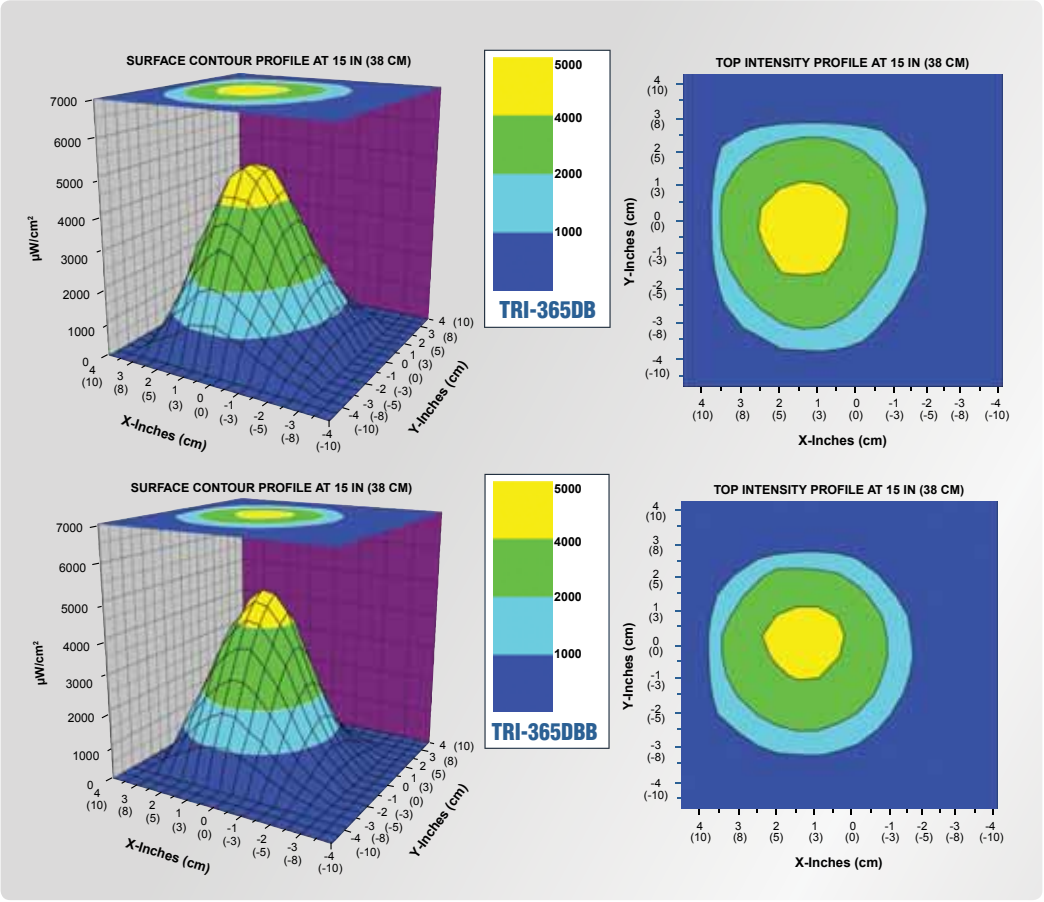
NORMALIZED UV IRRADIANCE

Typical wavelength output profile of TRITAN™ 365 Series with and without integral black light filters.



STANDARD-INTENSITY MODELS

UV-A BEAM PROFILES

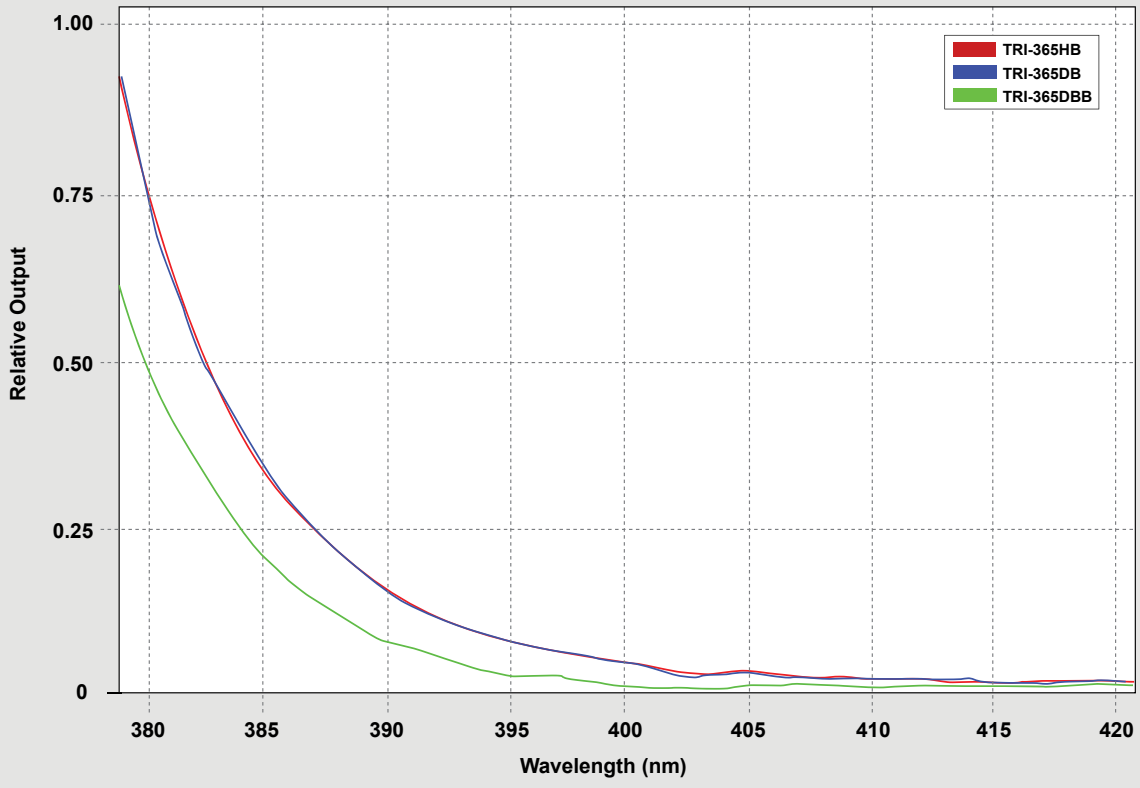


The **TRITAN™ 365** lamp is also available in two ***standard-intensity*** models that are designed for inspection applications requiring limited UV-A output.

The **TRI-365DB** is fitted with a clear glass filter. The **TRI-365DBB** is equipped with a faceplate with integral black light filters that cover each of the LEDs and reduce the output of wavelengths longer than 400 nm. This addresses aerospace industry concerns.

Both versions are "tuned" to ensure that they provide a maximum steady-state UV-A intensity of less than ***5,000 µW/cm²*** at 15 inches (38 cm).

SELECT WAVELENGTHS WITH AND WITHOUT INTERNAL BLACK LIGHT FILTER



As the wavelength of the TRITAN™ 365 moves into the visible light range, the black light filters significantly reduce the output of the lamp at 400 nm.

QDR-365 Series

QUADRAN™ 365

Versatile, Dual-Intensity, Multi-LED, Broad-Beam NDT Inspection Lamps!



Feature four ultra-hi-flux UV-A LEDs plus a convenient white light LED to quickly switch between fluorescent inspection and flaw location. A unique dual-intensity feature provides both high and standard UV-A *and* white light output for added versatility.

The lamps' broad-beam configuration produces an extremely wide coverage area, making them ideal for both in-line and hand-held applications. Models are available either with or without integral black light filters to meet *your* specific inspection requirements.

The **QUADRAN™ 365** can be quickly mounted for in-line inspections using various Spectroline® accessories (FA-100 flexible arm shown).

- Dual-intensity capability: High setting produces a nominal steady-state UV-A intensity as high as ***8,000 µW/cm²***; standard setting produces a nominal steady-state intensity of ***4,500 µW/cm²***, both at 15 inches (38 cm)
- Extremely large coverage area of up to 6 inches (15 cm), with a minimum UV-A intensity of ***2,000 µW/cm²***
- Low visible light emission — less than 2 foot-candles (22 lux)
- Conveniently located rocker switches for quick and easy control of light sources
- Built-in fan keeps LEDs cool to maintain optimum light output during extended use
- Rubber bumper with Borofloat® glass lens protects LEDs from damage
- Rugged, modular construction allows for easy field serviceability
- Lamp handle pin receptacle allows for easy attachment of various Spectroline® mounting accessories for in-line inspection applications (accessories sold separately)
- Choice of standard 8 foot (2.4 m) or extra-long 20 foot (6.1 m) heavy-duty power cord with AC plug and rubber boot. Also available: Optional industrial power supply or in-line power supply with cord sets (sold separately).
- UV-absorbing spectacles and soft carrying case included







QUADRAN™ 365 faceplate shown with (top) and without (bottom) integral black light filters.

Model	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm) ①	Visible light measurement	UV-A coverage area (at minimum 2,000 µW/cm²)
QDR-365A Standard Intensity	4,500 µW/cm² maximum	< 2 foot-candles (22 lux)	5 in (13 cm)
QDR-365A High Intensity	8,000 µW/cm²	< 2 foot-candles (22 lux)	6 in (15 cm)
QDR-365BLA Standard Intensity	4,500 µW/cm² maximum	< 2 foot-candles (22 lux)	4 in (10 cm)
QDR-365BLA High Intensity	7,000 µW/cm²	< 2 foot-candles (22 lux)	6 in (15 cm)

Light Source: 4 UV-A LEDs, 1 White Light LED
Lamp Style: Pistol grip
Lamp Head (WxH): 6 x 5.5 in (15 x 14 cm)
Length: 10 in (25 cm)
Weight: 3 lb (1.36 kg)
White Light LED Intensity:
High setting: 300 foot-candles (3,229 lux)
Low setting: 10 foot-candles (108 lux)
Power Requirement:
AC Lamp
(QDR-365A, QDR-365BLA) 120VAC* power cord supplied with lamp
AC/DC Lamp
(QDR-365MA, QDR-365MBLA) 120VAC*/12VDC
Battery Pack:
Type 12V, NiMH (rechargeable)
Run Time
High intensity: 2.5 hours (continuous)
Standard intensity: 4.5 hours (continuous)
Charge Time 2 hours

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

① All UV-A intensity readings were taken with Spectroline® AccuMAX™ Series meter, and are factory set to the values shown

CE



Also Available:

QUADRAN™ 365 M-Series portable, battery-operated AC/DC lamp kits. Include QUADRAN™ 365 UV lamp, rechargeable NiMH battery pack, power supply adapter with AC and DC cord sets, smart AC charger, UV-absorbing spectacles and soft carrying case.

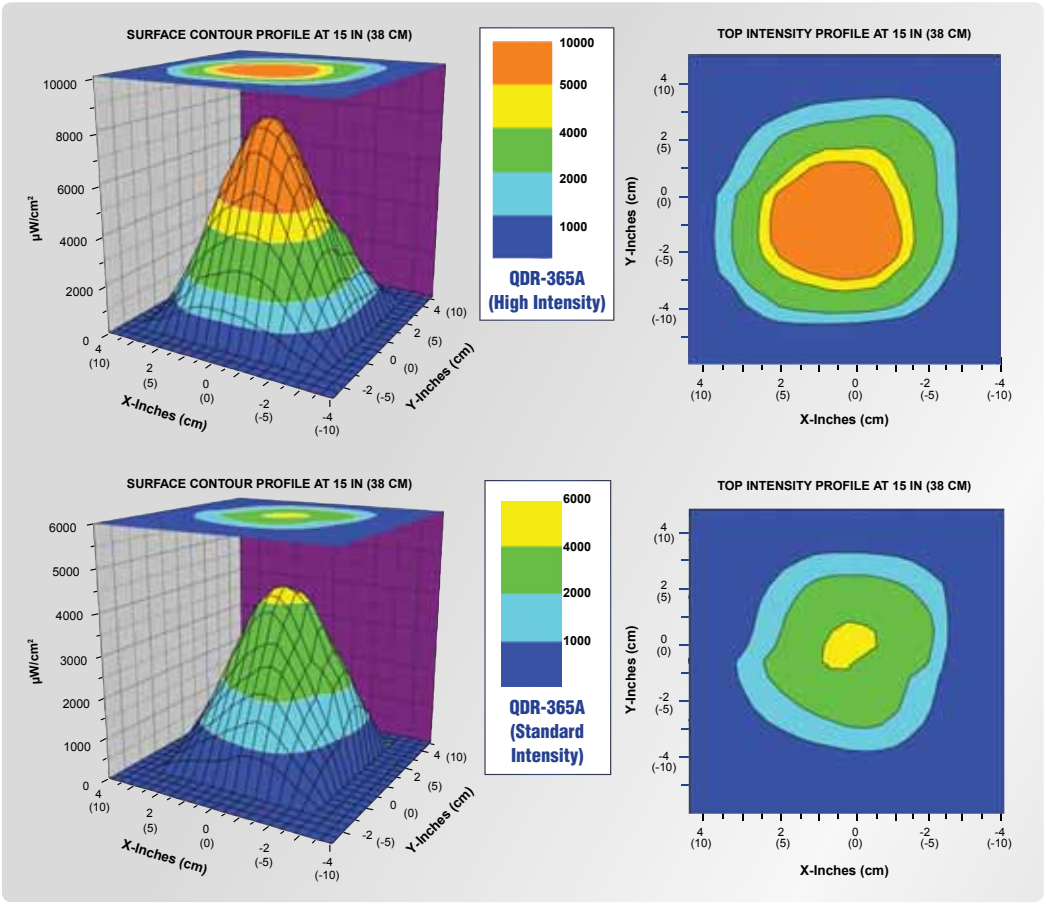
QDR-365A MODELS

UV-A BEAM PROFILES

When the **QDR-365A** is in ***high intensity*** mode, the lamp provides a nominal steady-state UV-A intensity of ***8,000 µW/cm²*** at 15 inches (38 cm).

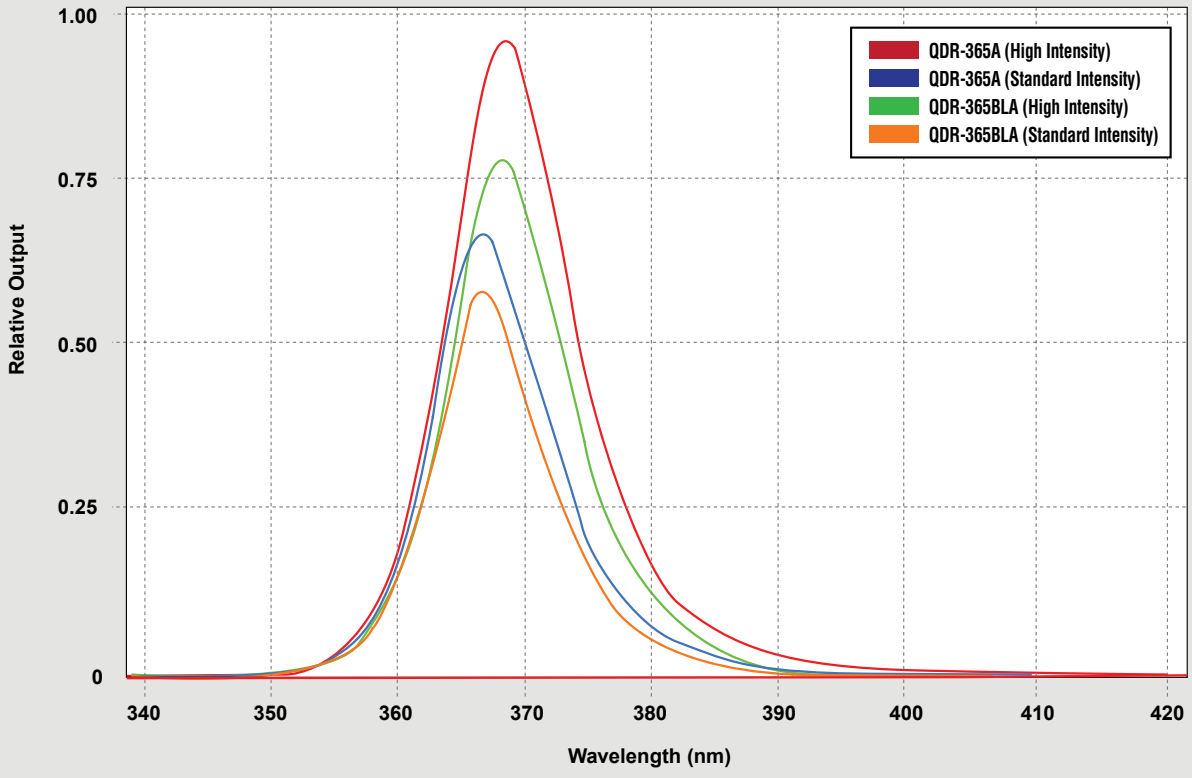
When switched to the ***standard intensity*** mode, the **QDR-365A** provides a nominal steady-state UV-A intensity of ***4,500 µW/cm²*** at 15 inches (38 cm).

In addition, the lamp has a high/low switch to control the white light LED output.



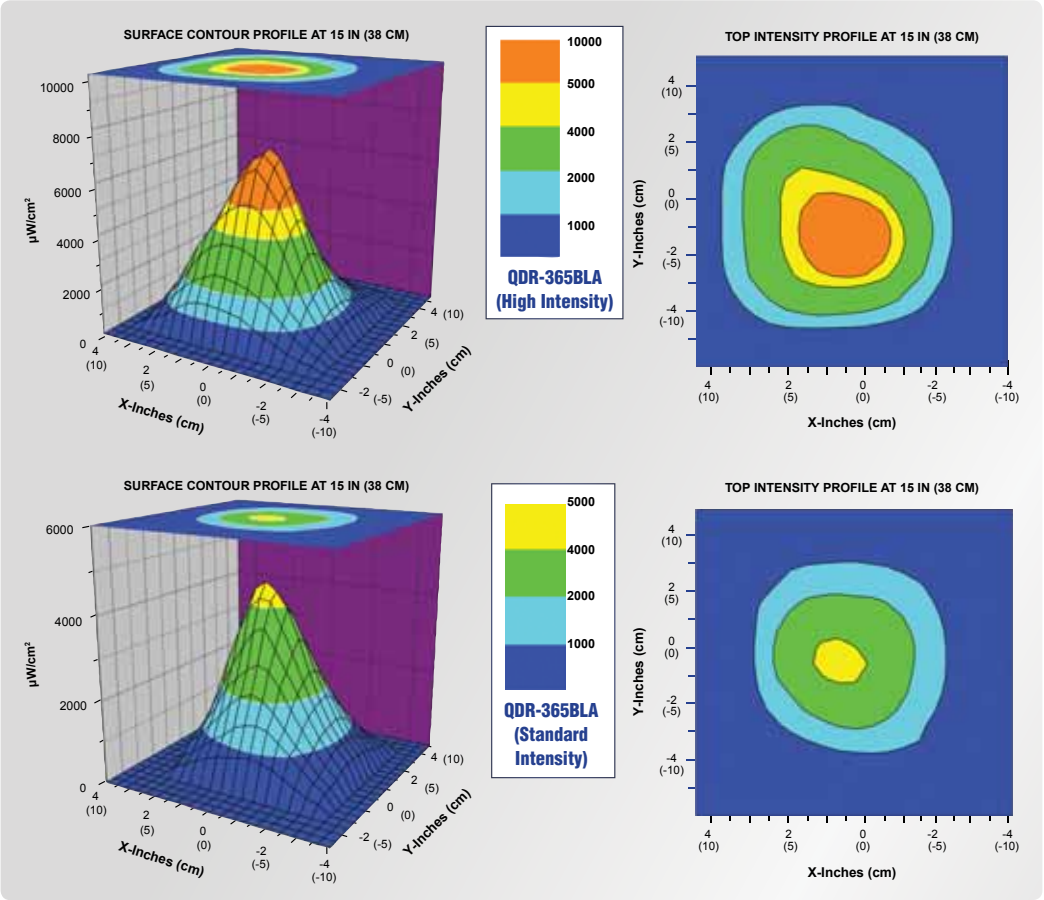
NORMALIZED UV IRRADIANCE

Typical wavelength output profile of QUADRAN™ 365 with and without internal black light filter, with peak at 365 nm.



QDR-365BLA MODELS

UV-A BEAM PROFILES

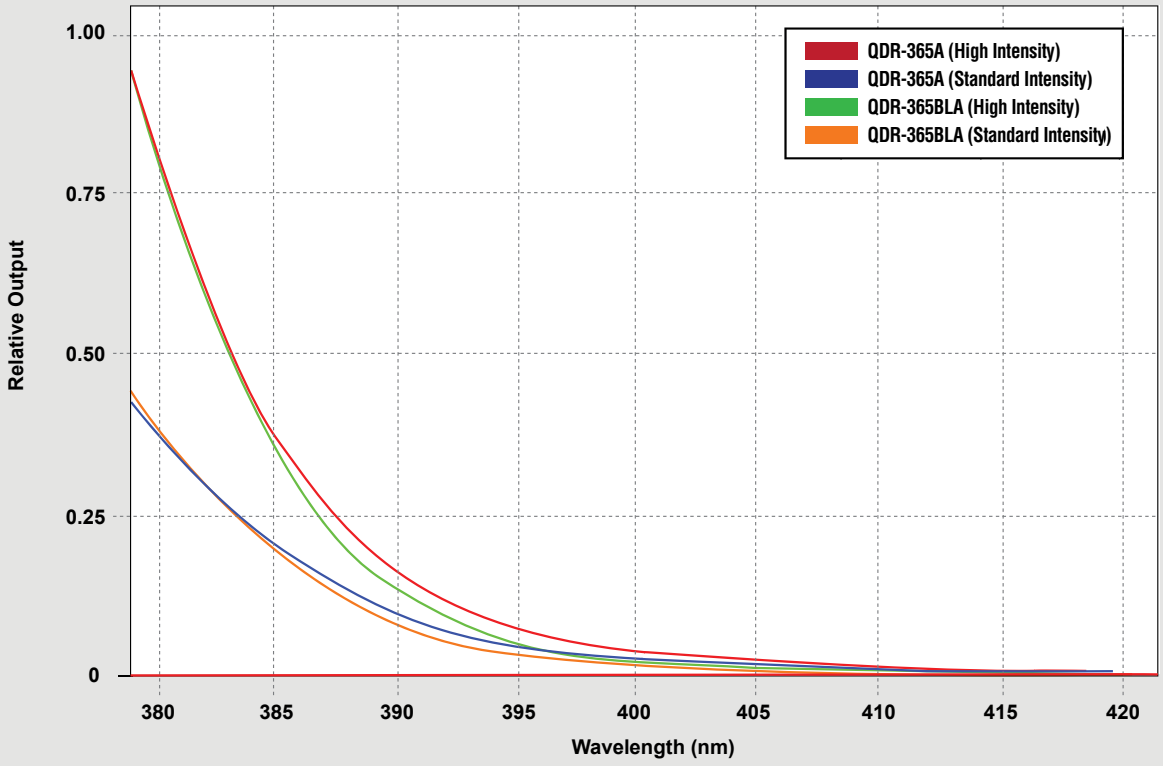


The **QDR-365BLA** is equipped with a faceplate with integral black light filters that reduce the output of wavelengths longer than 400 nm. When in the ***high intensity*** mode, the lamp provides a nominal steady-state UV-A intensity of ***7,000 µW/cm²*** at 15 inches (38 cm).

When switched to the ***standard intensity*** mode, the **QDR-365BLA** provides a nominal steady-state standard UV-A intensity of ***4,500 µW/cm²*** at 15 inches (38 cm).

In addition, the lamp has a high/low switch to control the white light LED output.

SELECT WAVELENGTHS WITH AND WITHOUT INTERNAL BLACK LIGHT FILTER



As the wavelength of the QUADRAN™ 365 moves into the visible light range, the black light filters significantly reduce the output of the lamp at 400 nm.

QDR-365 S-Series

QUADRAN™ 365

Powerful, Multi-LED, Broad-Beam NDT Inspection Lamps!



Feature four ultra-hi-flux UV-A LEDs plus a convenient white light LED to quickly switch between fluorescent inspection and flaw location. For increased flexibility, a unique dual-intensity feature provides high/low white light output control.

The lamps' broad-beam configuration produces an extremely wide coverage area, making them ideal for both in-line and hand-held applications. Two models are available, either with or without integral black light filters to meet *your* specific NDT inspection requirements.

QUADRAN™ 365 S-Series lamps can be quickly mounted for in-line inspections using various Spectroline® accessories *(FA-100 flexible arm shown)*.

- Choice of two models, both with a maximum standard UV-A intensity of ***4,500 µW/cm²*** at 15 inches (38 cm)
- Extremely large coverage area of up to 5 inches (13 cm), with a minimum UV-A intensity of ***2,000 µW/cm²***
- Low visible light emission — less than 2 foot-candles (22 lux)
- 100,000-hour LED service life
- Conveniently located rocker switches for quick and easy control of light sources
- Built-in fan keeps LEDs cool to maintain optimum light output during extended use
- Long-lasting UV-A lenses reduce the rate of solarization
- Rubber bumper with Borofloat® glass lens protects LEDs from damage
- Rugged, modular construction allows for easy field serviceability
- Lamp handle pin receptacle allows for easy attachment of various Spectroline® mounting accessories for in-line inspection applications (accessories sold separately)
- Choice of standard 8 foot (2.4 m) or extra-long 20 foot (6.1 m) heavy-duty power cord with AC plug and rubber boot. Also available: Optional industrial power supply or in-line power supply with cord sets (sold separately).
- Meets ASTM UV-A intensity and wavelength specifications for LPT and MPT
- ***Certificate of compliance*** for both wavelength and output measurements supplied with every lamp
- UV-absorbing spectacles and soft carrying case included







QUADRAN™ 365 S-Series faceplate shown with (top) and without (bottom) integral black light filters.

Model	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm) ①	Visible light measurement	UV-A coverage area (at minimum 2,000 µW/cm²)
QDR-365SA	4,500 µW/cm² maximum ②	< 2 foot-candles (22 lux)	5 in (13 cm)
QDR-365SBLA With integral black light filters	4,500 µW/cm² maximum ②	< 2 foot-candles (22 lux)	4 in (10 cm)

Light Source: 4 UV-A LEDs, 1 White Light LED
Lamp Style: Pistol grip
Lamp Head (WxH): 6 x 5.5 in (15 x 14 cm)
Length: 10 in (25 cm)
Weight: 3 lb (1.36 kg)
White Light LED Intensity:
High setting: 300 foot-candles (3,229 lux)
Low setting: 10 foot-candles (108 lux)

Power Requirement:
AC Lamp
(QDR-365SA, QDR-365SBLA) 120VAC* power cord supplied with lamp
AC/DC Lamp
(QDR-365MSA, QDR-365MSBLA) 120VAC*/12VDC
Battery Pack:
Type 12V, NiMH (rechargeable)
Run Time 4.5 hours (continuous)
Charge Time 2 hours

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

① All UV-A intensity readings were taken with Spectroline® AccuMAX™ Series meter, and are factory set to the values shown
② To address aerospace industry concerns

CE



Also Available:

QUADRAN™ 365 MS-Series portable, battery-operated AC/DC lamp kits. Include QUADRAN™ 365 UV lamp, rechargeable NiMH battery pack, power supply adapter with AC and DC cord sets, smart AC charger, UV-absorbing spectacles and soft carrying case.

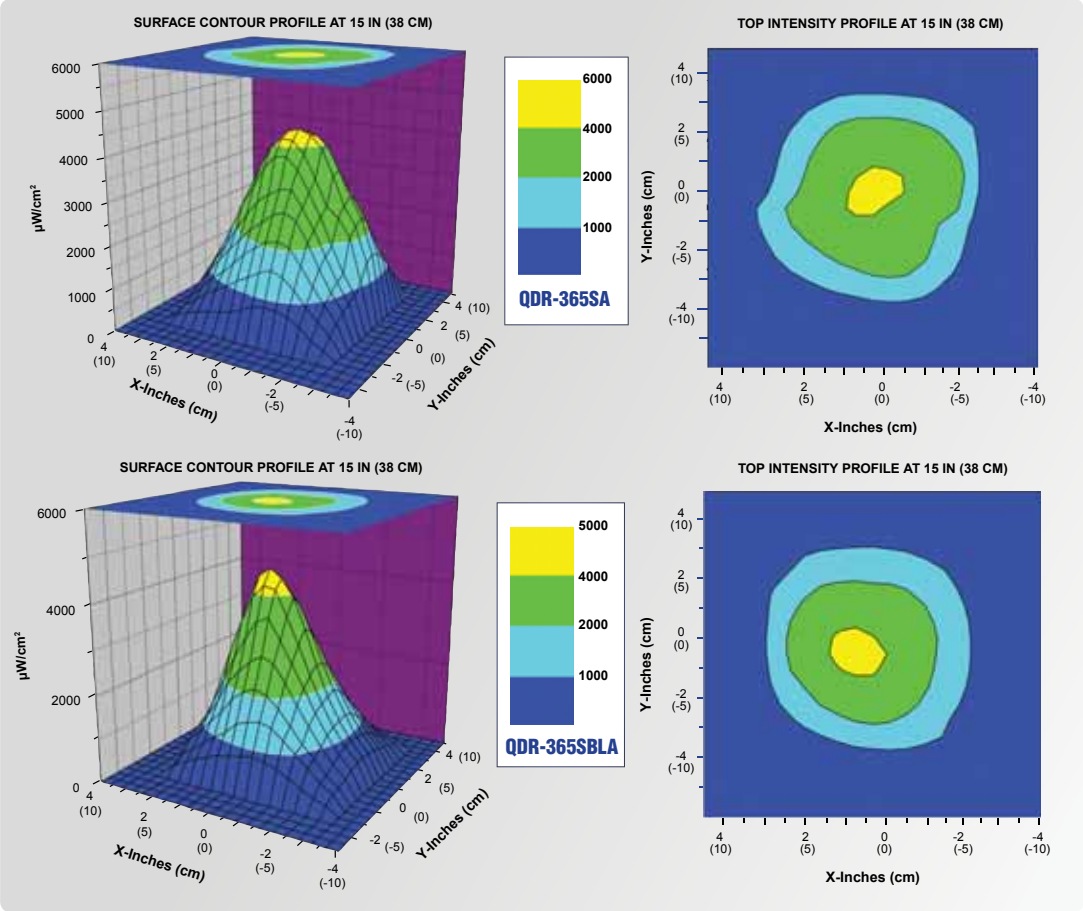
UV-A BEAM PROFILES

QUADRAN™ 365 S-Series lamps are available in two models (**QDR-365SA** and **QDR-365SBLA**).

Both are designed for NDT inspection applications requiring limited UV-A output. The **QDR-365SA** comes with a standard faceplate. The **QDR-365SBLA** is equipped with a faceplate containing integral black light filters that reduce the output of wavelengths longer than 400 nm.

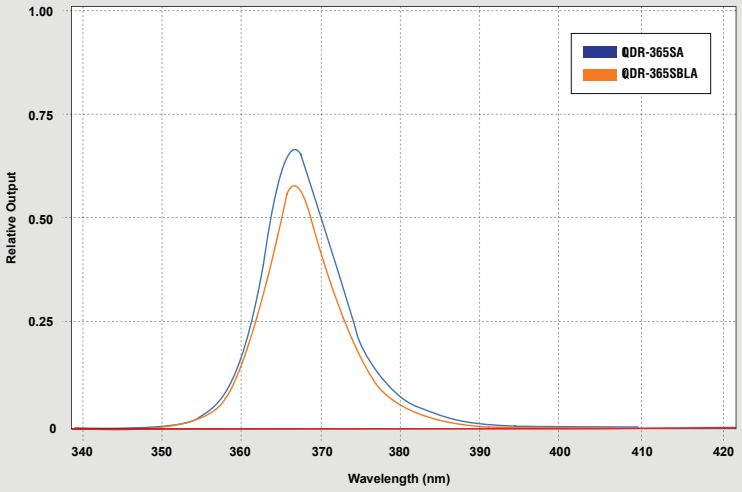
Both lamps are "tuned" to provide a nominal steady-state UV-A intensity of ***4,500 µW/cm²*** at 15 inches (38 cm). This addresses aerospace industry concerns.

In addition, both lamps have a high/low switch to control the white light LED output.



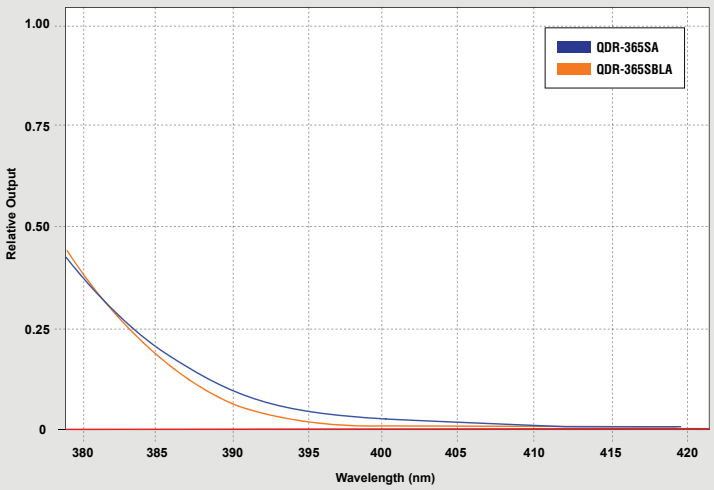
NORMALIZED UV IRRADIANCE

Typical wavelength output profile of QUADRAN™ 365 S-Series lamps with and without black light filters.



SELECT WAVELENGTHS WITH AND WITHOUT INTERNAL BLACK LIGHT FILTER

As the wavelength of the QUADRAN™ 365 S-Series moves into the visible light range, the black light filters significantly reduce the output of the lamp at 400 nm.



All QUADRAN™ 365 S-Series lamps are ideal for performing <u>both</u> in-line and hand-held inspections!

Each lamp can easily be attached to a variety of Spectroline® mounting accessories, as well as to our optional in-line power supplies.





QUADRAN™ 365 lamp shown with optional PS-200A (left) and PS-300A (right) power supplies.

Replacement Parts & Accessories for the QDR-365 & QDR-365 S-Series

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
127922	Particulate filter assembly
127944	Standard faceplate
128094	Faceplate with integral black light filters
B-6	Bench mount
BP-30	Battery pack with 12V rechargeable NiMH battery
BR-150A	Smart AC charger
CC-400	Soft carrying case
FA-100	Flexible arm
FP-550	Rubber bumper with Borofloat® glass
PSA-250A	AC/DC power supply adapter for "M" series lamps
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).
W-6	Wall mount with pin
WM-100	Wall mounting bracket
UVS-30	UV-absorbing spectacles

EK-3000

EAGLE EYE™

UV-A/White Light LED Inspection Kit

(U.S. patent: 8,616,722; CN patent ZL201010265212.4)

Palm-Sized, Cool-Running, Hands-Free Light Source!

Ideal for fluorescent magnetic particle and penetrant testing, mining inspection and a variety of other specialized applications!



Spray and inspect in one simple step!

- Compact, lightweight lamp with two ultra-high intensity UV-A (365 nm) LEDs for inspection, plus a three-LED white light assembly for general illumination
- Adjustable strap allows lamp to be worn on a hard hat or directly on the head for hands-free operation
- Unique lamp mount/sprayer attachment permits lamp and spray can to be mounted together for convenient, single-handed fluorescent yoke inspection
- Built-in fan keeps lamp cool to maintain optimum UV-A intensity during extended use
- Long-lasting UV-A lenses reduce the rate of solarization
- Splash guard with integral particulate filter protects UV lenses and cooling fan from damage
- 100,000-hour LED service life
- Powered by a rechargeable lithium-ion battery (included). Provides up to 75 minutes of continuous inspection between charges.
- ***Certificate of compliance*** for both wavelength and output measurements supplied with every lamp



EK-3000 EagleEye™ Kit comes with a lanyard, two replacement splash guards with integral particulate filters, two spare batteries, battery charging cradle with AC and DC cord sets, UV-absorbing spectacles and soft carrying case.

LAMP SPECIFICATIONS

Product Number:
EE-365

Light Sources:
2 UV LEDs, 3 white light LEDs

Dimensions:
Length 3.75 in (9.5 cm)
Width 2.25 in (5.7 cm)
Height 1.85 in (4.7 cm)

Weight with Battery: 8 oz (227 g)

Power Requirement:
One 3.7V 2200mA/Hr lithium-ion battery (rechargeable)

Run Time:
75 minutes (continuous)

Charge Time:
4 hours (two batteries)

Charging Cradle:
Two-battery capability with AC and DC cord sets.

Nominal Steady-State UV-A (365 nm) Intensity:
6 in (15 cm) — 20,000 µW/cm²
15 in (38 cm) — 4,500 µW/cm²
24 in (61 cm) — 2,000 µW/cm²
36 in (91 cm) — 1,000 µW/cm²

NOTE: All UV-A intensity readings taken with a Spectroline® AccuMAX™ Series meter

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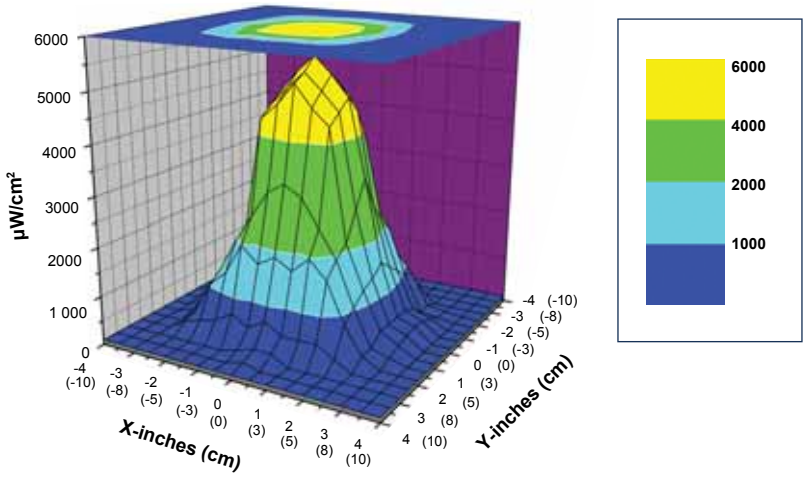
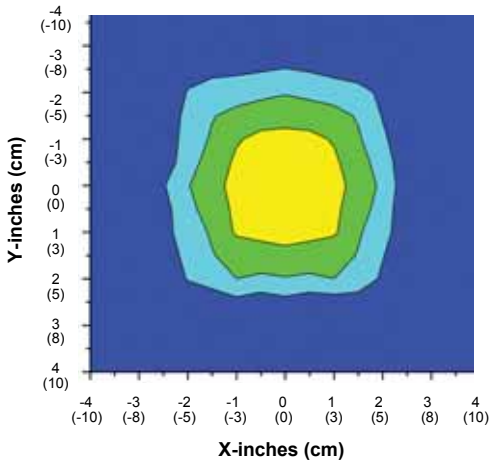
UV-A BEAM PROFILE

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)



TOP INTENSITY PROFILE AT 15 IN (38 CM)



Replacement Parts & Accessories

EE-365	UV-A/white light LED lamp
LMS-100	Lamp mount/sprayer
HS-100	Head strap
SG-100	Splash guard with integral particulate filter (set of three)
128217	Battery charging cradle with AC cord
128225	DC cord set for 128217
127568	Lithium-ion battery (rechargeable)
UVS-30	UV-absorbing spectacles
CC-370A	Soft carrying case

EDGE™ 365 Series

UV-A LED Panel Flood Lamps

Powerful, Versatile and Specifically Designed for the NDT Industry!



These cool-running, fan-less, overhead light sources feature a panel of 17 strategically located UV-A (365 nm) LEDs designed to provide an extremely wide area of coverage, plus 6 white light LEDs in the center of the panel for general illumination.

Available with clear or integral black light filters, they're ideal for inspection booths, fluorescent penetrant and magnetic particle inspection, screening of fluorescent particles, and many other applications requiring maximum uniformity of UV-A coverage over a large area.

- Models available with either clear (**PL-1700**) or integral black light filters (**PL-1700BL**). Both provide a nominal steady-state UV-A intensity of ***4,000 µW/cm²*** at 15 inches (38 cm).
- Huge coverage area of 25 inches by 8 inches (63 cm x 20 cm), with a minimum UV-A intensity of ***2,000 µW/cm²***
- Built-in, overheat protection circuitry insures UV-A wavelength compliance during extended use. Red LED warning light on control panel blinks when unit reaches 149 ˚F (65 ˚C). Unit automatically shuts off at 176 ˚F (80 ˚C).
- User-friendly control panel features just three conveniently located push buttons and a red overheat warning LED, for simplified operation.
- Low visible light emission–less than 2 foot-candles (22 lux)
- Easily mountable for overhead inspection applications
- 100,000-hour LED service life
- Fan-less system design keeps unit cool with minimum moving parts for greater reliability!
- Long-lasting UV-A lenses reduce the rate of solarization
- IP-54 Rating
- Meet ASTM UV-A intensity and wavelength specifications for LPT and MPT
- ***Certificate of compliance*** for both UV-A output and wavelength measurements is supplied with each unit
- Optional remote controls available: ***Hand-held remote*** controls On/Off, timer and white light intensity (Hi/Low) functions. ***Foot pedal remote*** controls white light intensity function only.





UV LEDs | Warning Light | White Light Intensity | White Light LEDs

User-friendly control panel features three conveniently located push buttons and a red overheat warning LED.



LAMP SPECIFICATIONS

Light Source:	17 UV-A (365 nm) LEDs, 6 White Light LEDs
Lamp Style:	Panel flood lamp
Dimensions:	8 x 24.5 x 6 in (20 x 62 x 15 cm) (W x L x H)
Weight:	26 lb (11.7 kg)
Power Requirement:	AC power cord supplied with unit (Available in 120V, 230V, 240V and 100V versions)

Nominal steady-state UV-A (365 nm) intensity:
15 in (38 cm) 4,000 µW/cm²
24 in (61cm) 2,900 µW/cm²
36 in (91 cm) 1,900 µW/cm²

Visible Light: < 2 foot-candles (22 lux)

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

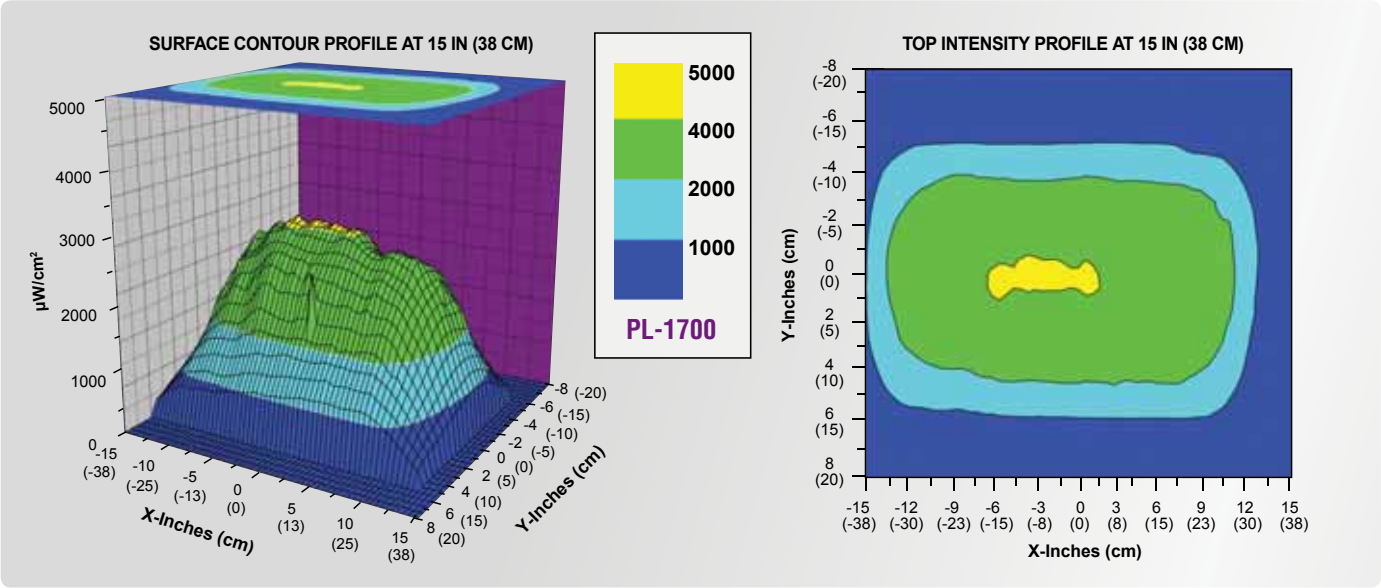
NOTE: All intensity readings taken with a Spectroline® AccuMAX™ Series meter, and are factory set to the values shown.

Replacement Parts & Accessories

129141	Standard, 8 foot (2.4 m) AC power cord
BF-365PLM	UV-A Black Light Filter Assembly (middle)
BF-365PLS	UV-A Black Light Filter Assembly (side)
CF-170	Clear Glass Filter Assembly
RC-170H	Hand-Held Remote
RC-170F	Foot Pedal Remote
UVG-50	Goggles, UV-Absorbing
UVF-80	Face Shield, UV-A Absorbing
UVS-30	Spectacles, UV-A Absorbing

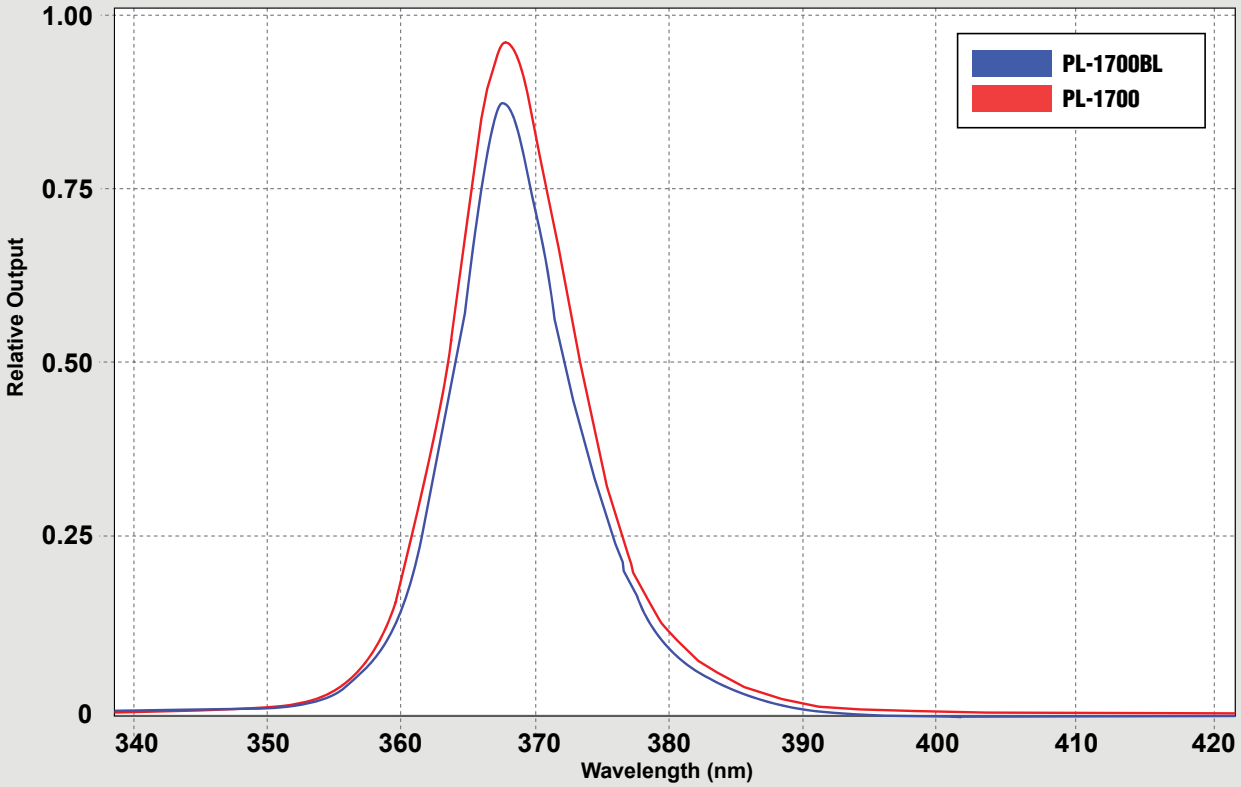
UV-A BEAM PROFILES

EDGE™ 365 LED panel flood lamps are available in two models specially designed for NDT inspection applications requiring limited UV-A output.



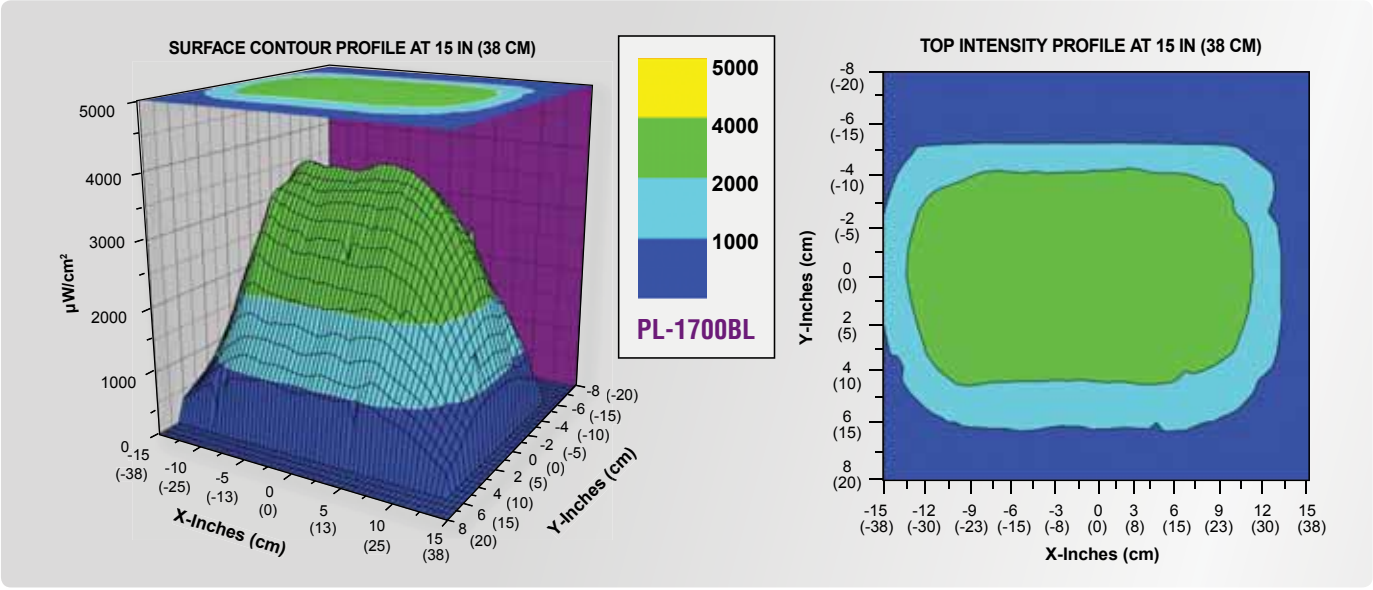
NORMALIZED UV IRRADIANCE

Typical wavelength output profile of EDGE™ 365 with and without integral black light filters.

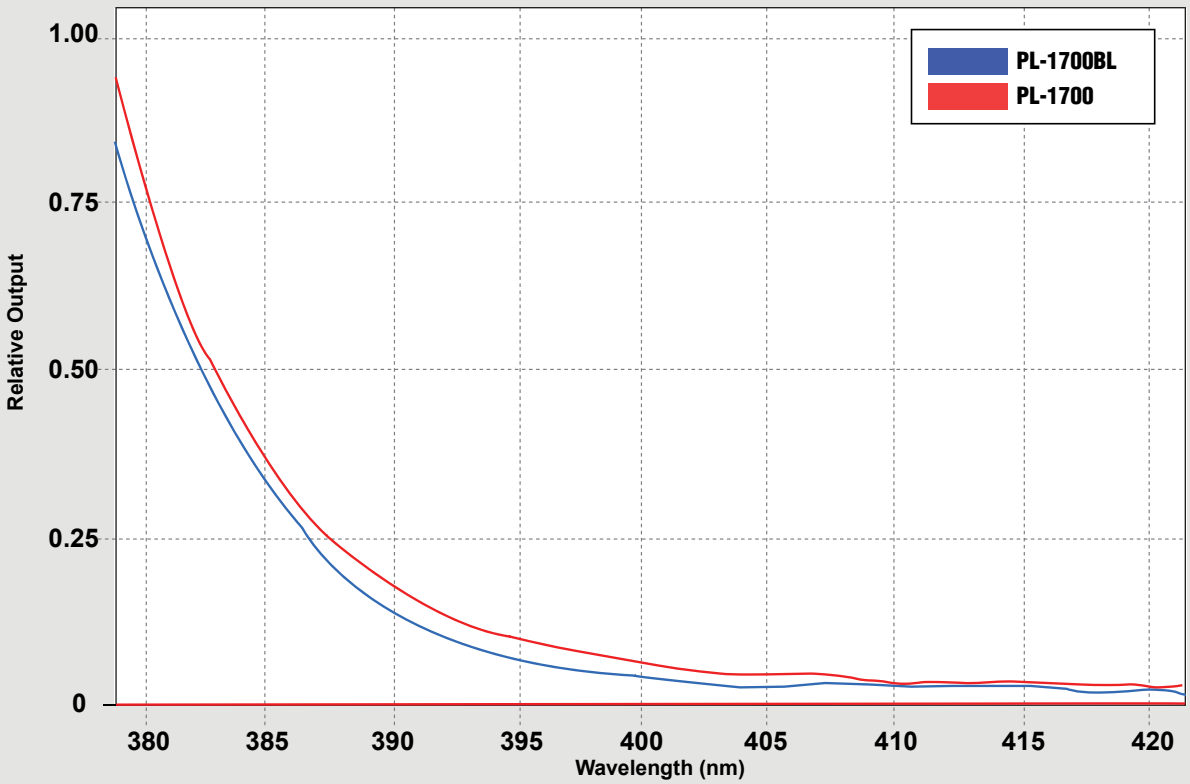


The **PL-1700** unit comes with a clear glass filter. The **PL-1700BL** comes with integral black light filters that reduce the output of wavelengths longer than 400 nm.

Both units provide a nominal steady-state UV-A intensity of ***4,000 µW/cm²*** (maximum) at 15 inches (38 cm) to address aerospace industry concerns.



SELECT WAVELENGTHS WITH AND WITHOUT INTERNAL BLACK LIGHT FILTER



As the wavelength of the EDGE™ 365 moves into the visible light range, the black light filters significantly reduce the output of the lamp at 400 nm.

PM-1600 Series

PowerMAX™ 365

UV-A LED Panel Flood Lamps

Designed Specifically for NDT Professionals!



PowerMAX™ 365 Series flood lamps feature a panel of 16 powerful UV-A (365 nm) LEDs specially engineered for non-destructive testing applications. These versatile, stationary light sources can be installed overhead or in-line, and can be ganged together to provide an even wider coverage area.

Available in two standard-intensity models, with or without a black light filter. Ideal for NDT inspection booths, fluorescent penetrant and magnetic particle inspection, screening of fluorescent particles, wash station inspection and many other applications requiring maximum uniformity of UV-A coverage over a large area.

- Choice of two standard-intensity models with a maximum UV-A intensity of ***4,500 µW/cm²*** at 15 inches (38 cm)
- Large coverage area of 15 inches by 6 inches (38 cm x 15 cm), with a minimum UV-A intensity of ***2,000 µW/cm²***
- Low visible light emission — less than 2 foot-candles (22 lux)
- 100,000-hour LED service life
- Easily mountable for overhead inspection or in-line applications
- Built-in fans keep LEDs cool to maintain optimum light output during extended use
- Long-lasting UV-A lenses reduce the rate of solarization
- Customizable — multiple lamp units can be "ganged" together longitudinally or back-to-back for a larger coverage area to meet *your* specific inspection requirements!
- Available with or without black light filter
- Lamps meet ASTM UV-A intensity and wavelength specifications for LPT and MPT, and come with a ***certificate of compliance*** for both wavelength and output measurements





Model	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm) ①	Visible light measurement	UV-A coverage area (at minimum 2000 µW/cm²)
PM-1600UV Standard intensity, with clear filter	4,500 µW/cm² maximum	< 2 foot-candles (22 lux)	15 in by 6 in (38 cm x 15 cm)
PM-1600BL Standard intensity, with black light filter	4,000 µW/cm² maximum	< 2 foot-candles (22 lux)	15 in by 6 in (38 cm x 15 cm)

Light Source: 16 UV-A (365 nm) LEDs
Lamp Style: Panel flood lamp
Dimensions: (W x L x H) 5.5 x 13.75 x 6 in (14 x 35 x 15 cm)
Weight: 9 lb (4 kg)
Power Requirement: AC power (main AC power cord supplied with the unit)

① All UV-A intensity readings were taken with Spectroline® AccuMAX™ Series meter, and are factory set to the values shown

CE

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



Replacement Parts & Accessories

128177	AC power cord
BF-365PM	Black light filter assembly
CF-100	Clear glass filter assembly
127918	Particulate air filter
127935	Retainer, LED assembly face plate
CC-200	Connector cable for ganging lamps
CP-100	Top connecting plate for ganging lamps longitudinally
CP-200	Top connecting plate for ganging lamps back-to-back (Two required)
CP-300	Side connecting bracket for ganging lamps longitudinally (Two required)
UVF-80	Face shield, UV-absorbing
UVG-50	Goggles, UV-absorbing
UVS-30	Spectacles, UV-absorbing

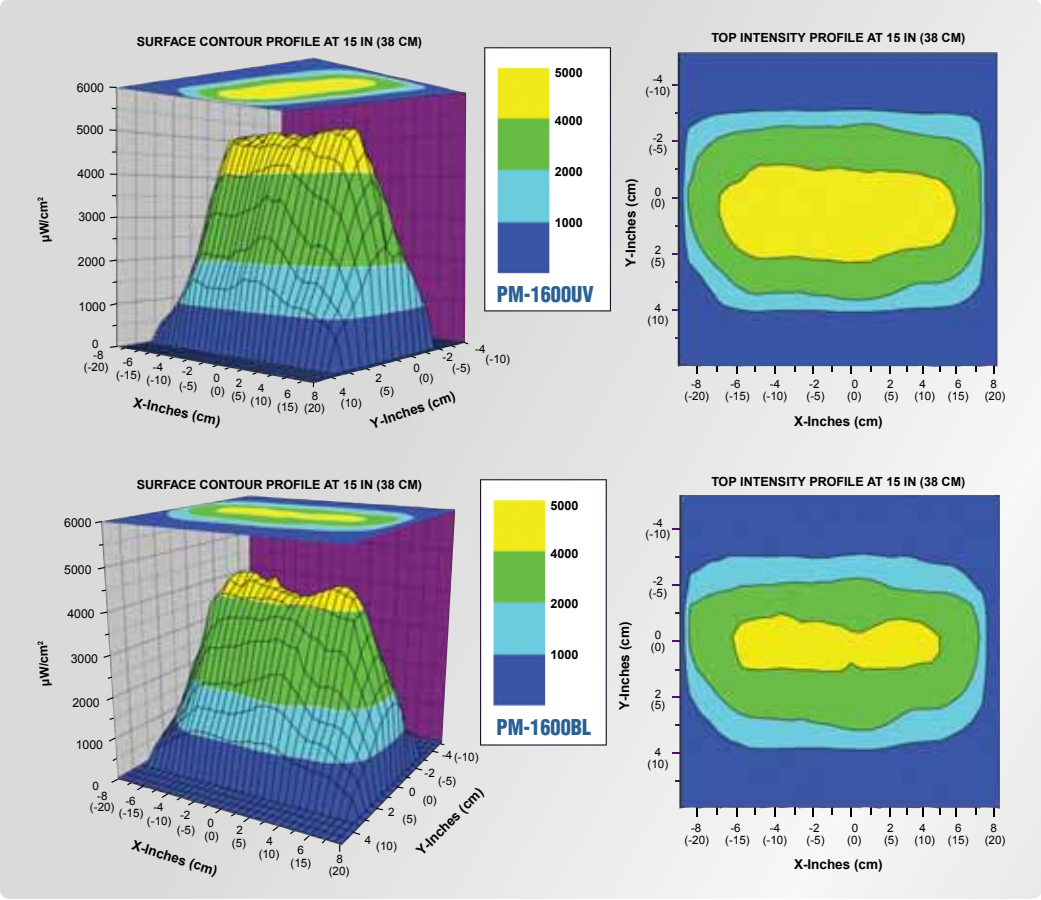
STANDARD-INTENSITY MODELS

UV-A BEAM PROFILES

PowerMAX™ 365 Series UV-A LED panel flood lamps are available in two ***standard-intensity*** models that are designed for NDT inspection applications requiring limited UV-A output.

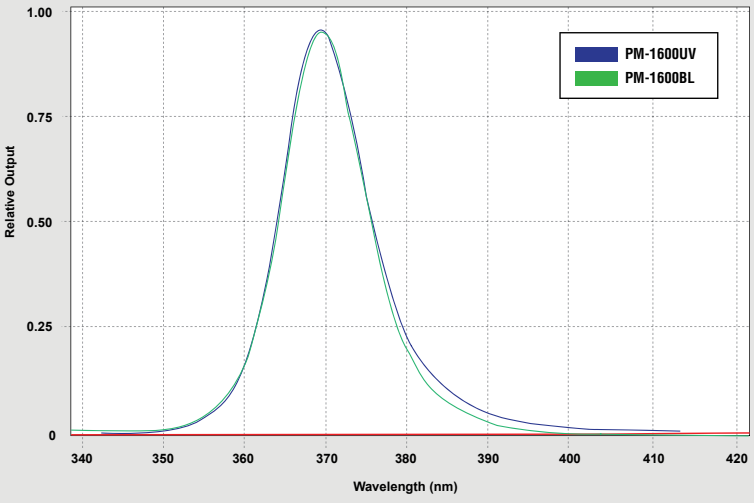
The **PM-1600UV** is equipped with a clear glass filter and provides a nominal steady-state UV-A intensity of ***4,500 µW/cm²*** (maximum) at 15 inches (38 cm).

The **PM-1600BL** is equipped with a black light filter that reduces the output of wavelengths longer than 400 nm. It provides a nominal steady-state UV-A intensity of ***4,000 µW/cm²*** (maximum) at 15 inches (38 cm). This addresses aerospace industry concerns.



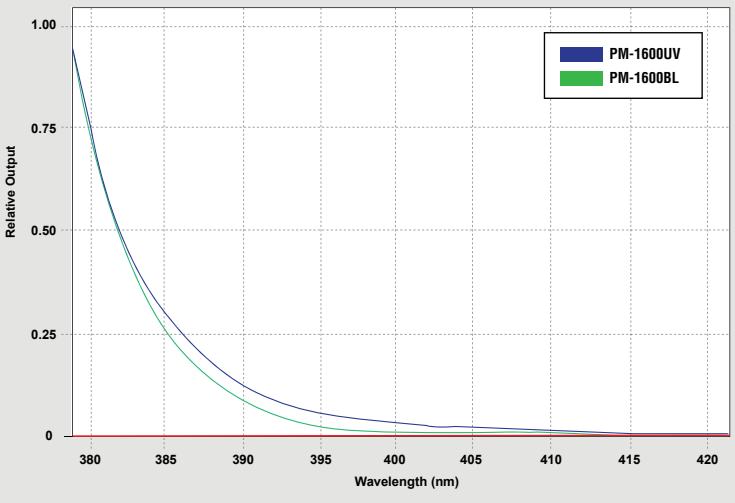
NORMALIZED UV IRRADIANCE

Typical wavelength output profile of PowerMAX™ 365 Series with and without black light filter.



SELECT WAVELENGTHS WITH AND WITHOUT INTERNAL BLACK LIGHT FILTER

As the wavelength of the PowerMAX™ 365 moves into the visible light range, the black light filter significantly reduces the output of the lamp at 400 nm.



UV-400 Series SuperFlood™

Our Most Powerful UV-A Flood Lamps Designed Specifically for NDT

These super-powerful and versatile lamps have been specially engineered for fluorescent penetrant and magnetic particle inspection, parts degreasing inspections and wash station inspections.

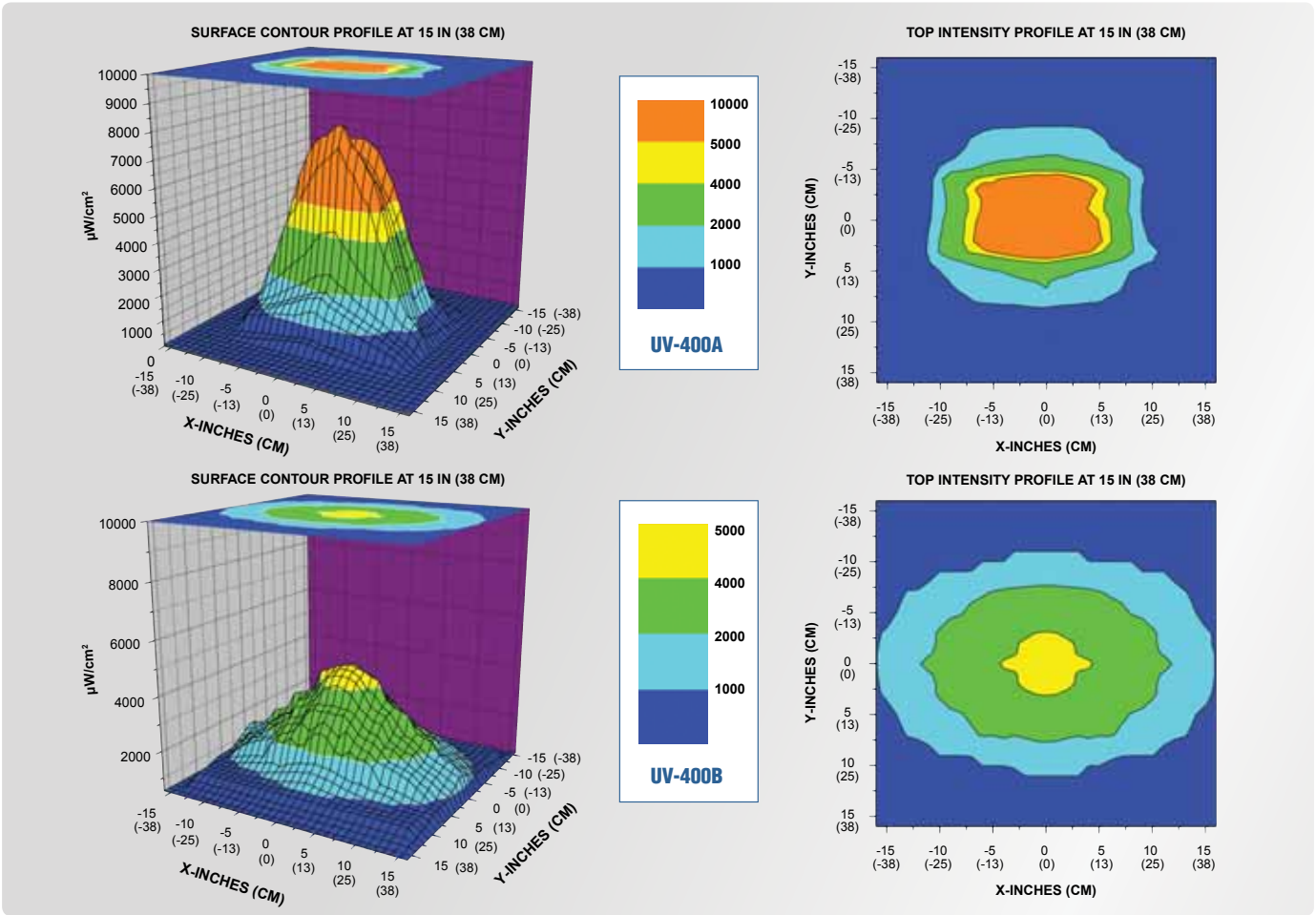


- Powerful, 400-watt metal halide bulb, combined with tempered, heat-resistant low solarization UV filters provide the highest intensity over the largest area
- Unique twin-filter system eliminates hazardous UV-B and UV-C radiation escaping from lamp
- Easily mounts over automated magnetic particle systems or above penetrant inspection booths for the most accurate inspections of even the largest parts
- Compact design and built-in mounting features allow lamps to be positioned anywhere — even in previously inaccessible areas

The **UV-400A** features a concentrated-beam reflector designed to assure the highest concentrated UV-A intensity available. It has a nominal steady-state UV-A intensity of ***8,000 µW/cm²*** at lamp center, measured at 15 inches (38 cm). Irradiates an area as large as 16" x 10" (41 cm x 25 cm), producing a nominal steady-state UV-A irradiance of not less than ***2,000 µW/cm²***.

The **UV-400B** features a unique broad-beam reflector designed to provide NDT inspectors with maximum uniformity of coverage over the largest area. It has a nominal steady-state UV-A intensity of ***4,000 µW/cm²*** at lamp center, measured at 15 inches (38 cm). The lamp irradiates an area as wide as 20" x 12" (51 cm x 31 cm) with unmatched uniformity, producing a nominal steady-state UV-A irradiance of not less than ***2,000 µW/cm²***.

UV-A BEAM PROFILE



ML-3500 Series MAXIMA™

Ultra-High Intensity UV-A Lamps

These super-powerful lamps make NDT inspections easier, safer and more reliable. They feature state-of-the-art micro discharge light (MDL) technology with a fatigue-free ergonomic design.

- Powerful, 35 watt high-intensity MDL bulb
- Deliver up to 10 times the UV-A output of conventional HID inspection lamps
- Prefocused at the factory
- Instant on/off/restrike
- Lightweight, solid-state ballast
- Integral bulb/reflector assembly
- Stay-cool, impact-resistant and dent-proof housing
- Battery-operated versions available
- All bulbs feature a rated life of 2,000 hours
- Come complete with both UV-absorbing and fluorescent-enhancing spectacles

The MAXIMA™ series consists of three models:

- The **ML-3500S** with a spot reflector has a nominal steady-state UV-A intensity of ***50,000 µW/cm²*** at 15 inches (38 cm). Works even in direct sunlight!
- The **ML-3500D** with a spot reflector and diffusing filter has a nominal steady-state UV-A intensity of ***14,000 µW/cm²*** at 15 inches (38 cm).
- The **ML-3500FL** with a flood reflector has a nominal steady-state UV-A intensity of ***4,500 µW/cm²*** at 15 inches (38 cm).



Line voltage model

All models come standard with 8 foot (2.4 m) primary and secondary cords. Lamps are also available with extended length primary cords or with a 35 foot (10.7 m) secondary cord housed in a retractable "flying" reel.

In addition, all MAXIMA™ lamps are available in battery-operated "M" versions. Each includes a 12-volt, 7 amp/hr rechargeable battery that will operate the lamp for a full two hours. A battery charger and carrying case are included.

CE



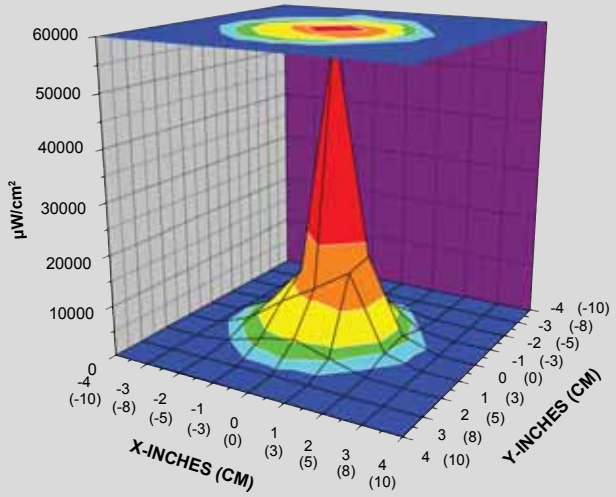
Battery-operated "M" version

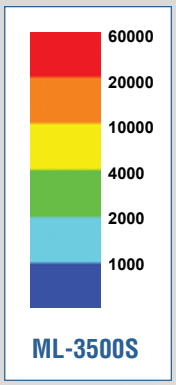


ML-3500® Series lamp with 35 foot (10.7 m) secondary cord housed in a retractable "flying" reel

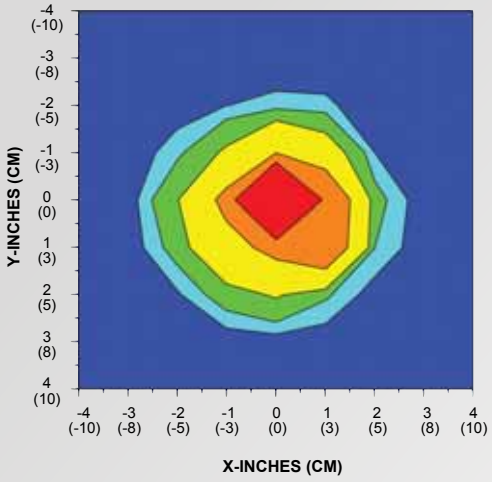
UV-A BEAM PROFILES

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)

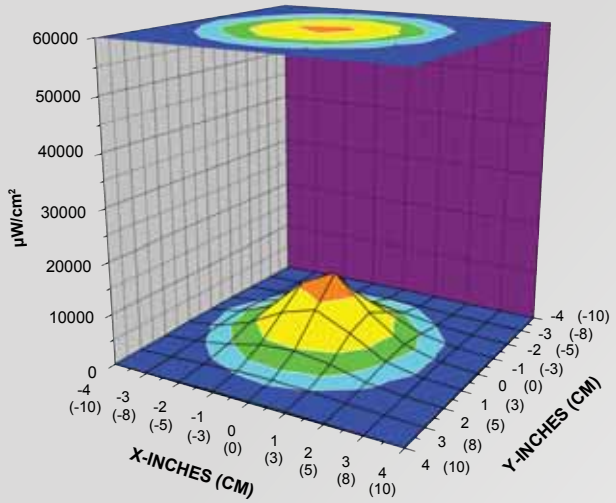


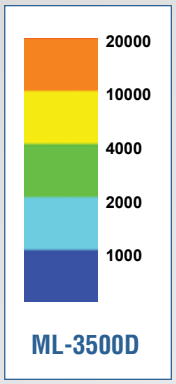


TOP INTENSITY PROFILE AT 15 IN (38 CM)

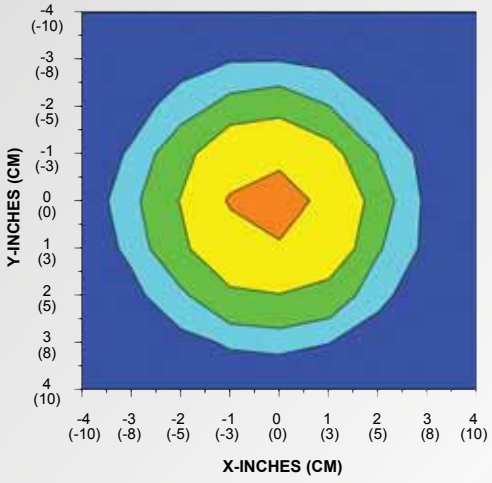


SURFACE CONTOUR PROFILE AT 15 IN (38 CM)





TOP INTENSITY PROFILE AT 15 IN (38 CM)



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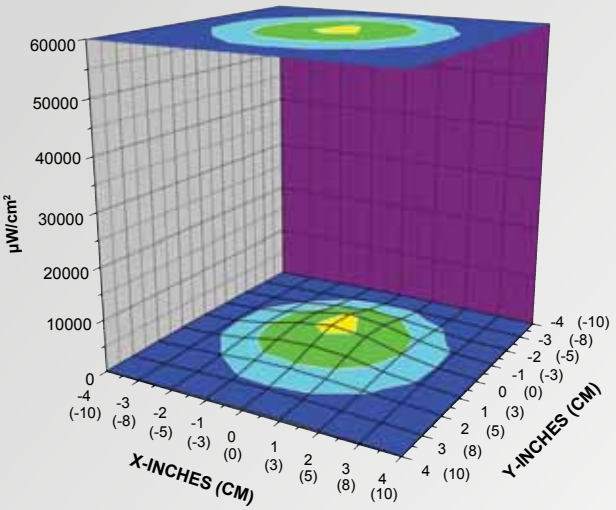
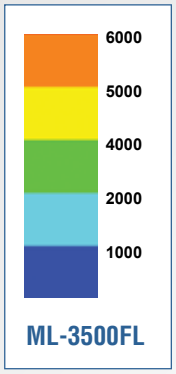
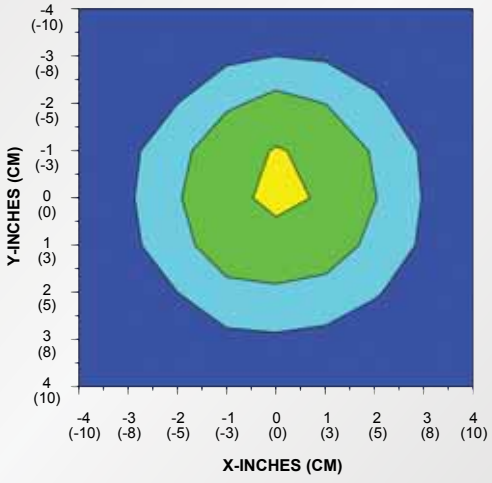




TOP INTENSITY PROFILE AT 15 IN (38 CM)



ONT-365 On-Trak™ Modular Inspection System

(U.S. and foreign patents pending)

The **ONT-365 On-Trak™** is an innovative, track light-style modular inspection system. It features four broad-beam lamps, each of which utilizes three powerful, ultra-high-flux UV-A (365 nm) LEDs for inspection plus one white light LED for general illumination. This overhead lighting system allows inspectors to customize lamp beam patterns to suit their individual needs. Two lamp head assemblies can be added, as desired, to increase the coverage area. Perfect for NDT inspection booths, pre-inspections and screening applications requiring maximum uniformity of coverage over large areas.



- Cool-running, energy-efficient LEDs
- Broad-beam profiles provide wide coverage area
- Electronic Intensity Stabilizers ensure consistent LED performance
- Instant-on operation; lamps reach full intensity immediately
- Built-in fans keep LEDs cool to maintain optimum UV-A intensity during extended use
- 100,000-hour LED service life
- Long-lasting UV-A lenses reduce the rate of solarization
- Produces less than 2 foot-candles of visible light
- Filter protectors with rubber bumpers and Borofloat® glass lenses prevent damage to LEDs
- Easily customizable! Move, adjust and add up to two lamp heads according to *your* specific inspection requirements (additional lamp heads sold separately)
- Optional remote control with three-position rocker switch provides added convenience and versatility
- Comes complete with UVS-30 UV-absorbing spectacles





Optional remote control with three-position rocker switch adds convenience and versatility

LAMP SPECIFICATIONS

Product Number:
ONT-365

Light Sources:
3 UV-A LEDs and 1 white light LED per lamp head

System dimensions: (L x W x H)
28.5 x 18.3 x 11 in (72 x 46 x 28 cm)

Lamp:
Head diameter: 3.25 in (8.3 cm)
Length: 9.5 in (24 cm)

Platform Dimensions: (L x W x H)
28.5 x 18.3 x 2.5 in (72 x 46 x 6 cm)

Platform Weight:
13 lb (5.9 kg)

Power Supply Cord:
8 ft (2.4 m)

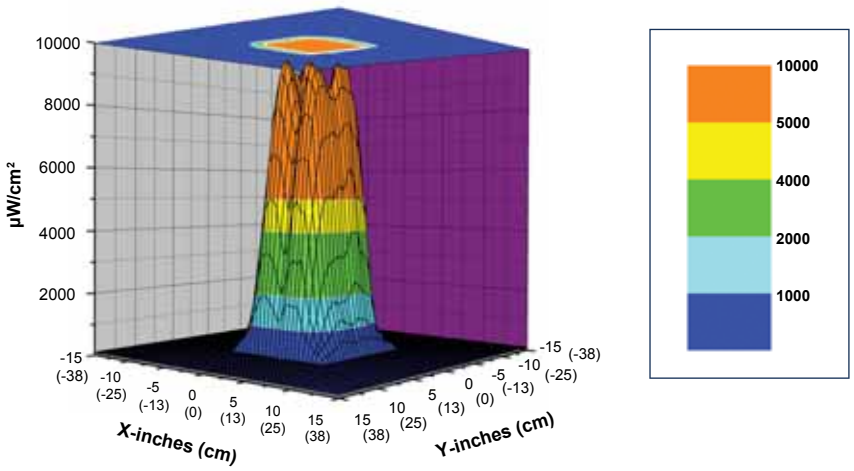
Power Supply:
Input: 100-240 VAC 50/60 Hz
Output: 12 VDC

Nominal Steady-State UV-A (365 nm) Intensity:
15 in (38 cm) — 9,000 µW/cm²

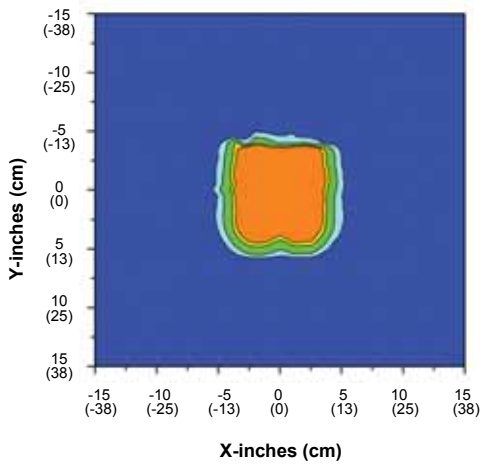
NOTE: UV-A intensity reading taken with a Spectroline® AccuMAX™ Series meter

UV-A BEAM PROFILE

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)



TOP INTENSITY PROFILE AT 15 IN (38 CM)



Replacement Parts & Accessories

LA-365	UV-A/white light LED lamp head assembly
PT-200	Platform and track assembly
FP-100	Filter protector with rubber bumper and Borofloat® glass lens
AF-200	Air filter (package of 24)
PS-100A	Power supply module
RC-200	AC remote control with 8 foot (2.4 m) cord
UVS-30	Spectacles, UV-absorbing
UVG-50	Goggles, UV-absorbing
UVF-80	Face shield, UV-absorbing

LED Light Sources in Blue Light Wavelengths!

The importance of high-intensity UV-A black lights for proper magnetic particle or penetrant NDT inspection is well established. However, a concern for UV safety has always existed. Our new blue light inspection lamps and modular systems address this concern. While still no substitute for UV-A lamps, blue light does provide the safety and convenience desired for quick pre-inspection or screening of fluorescent particles in operating conditions with ambient light, saving time and limiting the use of black lights to only when necessary.



OPX-450

OPTIMAX™ 450 Rechargeable Blue Light LED Flashlight

(U.S. patent no. 5,905,268; foreign patents pending)

This versatile, cordless inspection lamp features a high-intensity, 450 nm blue light LED, a black anodized lamp body and our patented, thin-film dichroic lens to filter out long-wave visible light.



- Nominal steady-state blue light intensity of ***7,000 µW/cm²*** at 15 inches (38 cm)
- 100,000-hour LED service life
- Patented, thin-film dichroic lens improve contrast and fluorescent response
- Electronic Intensity Stabilizer assures consistent performance. Beam strength will not weaken between charges!
- Instant-on operation. Lamp reaches full intensity immediately!
- Lightweight, cordless, ergonomic design eliminates fatigue
- Portable and rugged. Anodized aluminum lamp body minimizes corrosion and stands up to years of heavy use.
- Powered by a rechargeable NiMH battery. Provides 90 minutes of continuous inspection between charges.



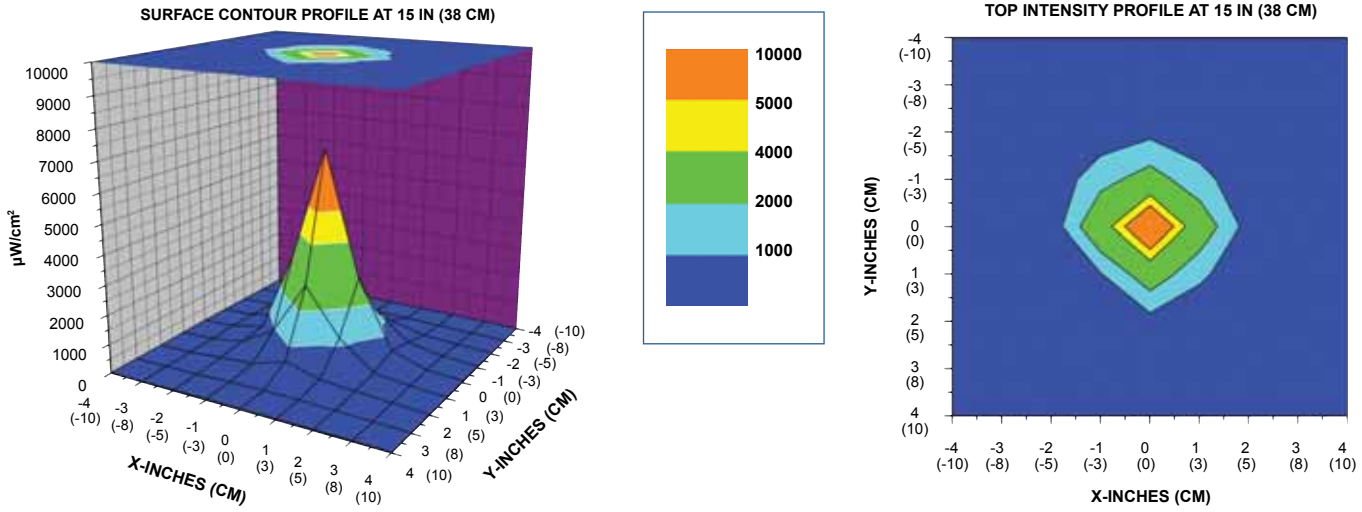
OPTIMAX™ 450 comes complete with smart AC and DC chargers, fluorescent-enhancing, yellow spectacles, belt holster and rugged, padded carrying case.

LAMP SPECIFICATIONS

Style	Cordless flashlight
Lamp Head Diameter	2.0 inch (5.1 cm)
Length	8.0 inch (20.3 cm)
Weight *(with Battery)*	11.8 oz (335 g)
Power Requirement	3.6V, 2 AH NiMH internal battery stick (rechargeable)
Run Time	90 minutes (continuous)
Charge Time	4 hours

CE

BLUE LIGHT BEAM PROFILE



TRI-450B Series

TRITAN™ 450 Multi-LED, Broad-Beam Blue Light Lamp

(U.S. patent no. 5,905,268; foreign patents pending)

Feature three cool-running, ultra-high flux 450 nm blue light 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 non-destructive testing applications.



- Nominal steady-state blue light intensity of ***9,500 µW/cm²*** at 15 inches (38 cm)
- Large 5 inch (13 cm) diameter coverage area at 15 inches (38 cm) with a minimum intensity of ***2,000 µW/cm²***
- Rubber bumper with patented thin-film dichroic lens filters out long-wave visible light
- Electronic Intensity Stabilizer ensures consistent LED performance
- Built-in fans keep LEDs cool to maintain optimum light output during extended use
- Instant-on operation. Lamp reaches full intensity immediately!
- Rugged, ergonomic, angled lamp body provides safe, fatigue-free handling
- Choice of standard 8 foot (2.4 m) or extra-long 20 foot (6.1 m) heavy-duty power cord with AC plug and rubber boot. Also available: Optional in-line power supply or industrial power supply with cord sets (sold separately).
- Includes fluorescent-enhancing, yellow spectacles and soft carrying case





LAMP SPECIFICATIONS

Style	Pistol grip
Light Source	3 blue light LEDs
Lamp Head Diameter	5 in (13 cm)
Length	8.0 in (20.3 cm)
Weight	1 lb (454 g)
Power Requirements:	
AC lamp	(TRI-450B) 120VAC*
AC/DC lamp	(TRI-450MB) 120VAC*/12VDC
Battery Pack:	
Type	12V, NiMH (rechargeable)
Run Time	3.5 hours (continuous)
Charge Time	2 hours

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

CE

Also Available:

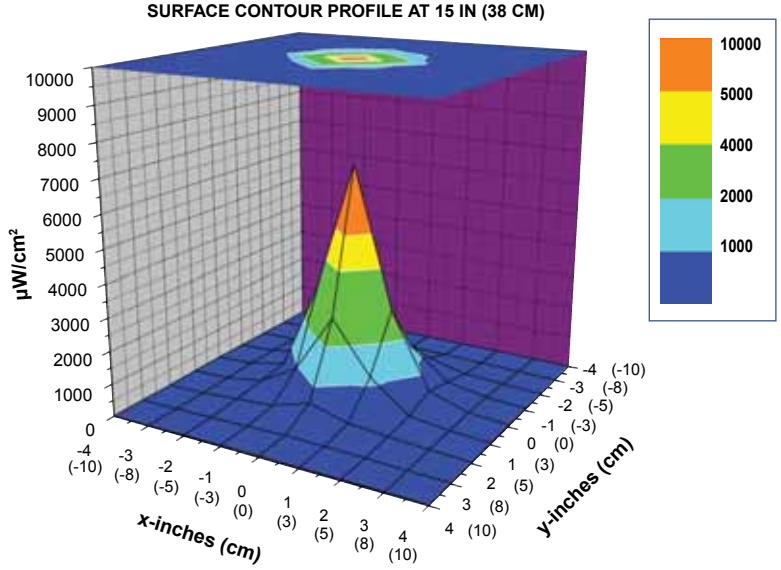
TRITAN™ 450MB portable, battery-operated AC/DC lamp kit. Includes TRITAN 450 blue light LED lamp, rechargeable NiMH battery pack, power supply adapter with AC and DC cord sets, smart AC charger, fluorescent-enhancing, yellow spectacles and soft, lightweight carrying case.

Replacement Parts & Accessories

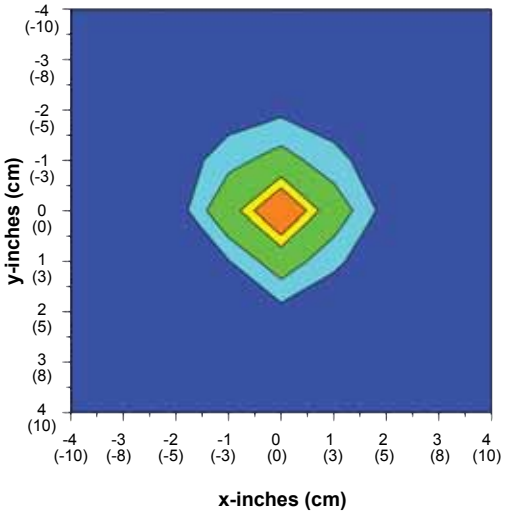
129141	Standard, 8 foot (2.4 m) AC power cord
129145	Extra-long, 20 foot (6.1 m) AC power cord
129162	3.5 foot (1.1 m) DC power cord for "M" series lamps
127933	Particulate filter assembly
BP-30	Battery pack with 12V rechargeable NiMH battery
BR-150A	Smart AC charger
CC-370A	Soft carrying case
FP-450	Rubber bumper with dichroic lens
PSA-250A	AC/DC power supply adapter for "M" series lamps
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).
UVS-40	Fluorescent-enhancing spectacles, yellow

BLUE LIGHT BEAM PROFILE

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)



TOP INTENSITY PROFILE AT 15 IN (38 CM)



PM-1600B

PowerMAX™ 450

Blue Light LED Panel Flood Lamp

Designed Specifically for NDT Professionals!

PowerMAX™ 450 flood lamp features a panel of 16 powerful blue light (450 nm) LEDs specially engineered for non-destructive 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.

Ideal for NDT inspection booths, quick pre-inspection or screening of fluorescent particles in ambient light conditions and any other applications requiring maximum uniformity of blue light coverage over a large area.



- Nominal steady-state blue light intensity of ***14,000 µW/cm²*** at 15 inches (38 cm)
- Large coverage area of 18 inches by 8 inches (46 cm x 20 cm) with a minimum blue light intensity of ***2,000 µW/cm²***
- Patented, thin-film dichroic lens to filter out long-wave visible light
- Easily mountable for overhead inspection or in-line applications
- Built-in fans keep LEDs cool to maintain optimum light output during extended use
- Customizable — multiple lamp units can be "ganged" together longitudinally or back-to-back for a larger coverage area to meet *your* specific inspection requirements!





LAMP SPECIFICATIONS

Style	Panel flood lamp
Light Source	16 blue light (450 nm) LEDs
Dimensions (WxLxH)	5.5 x 13.75 x 6 in (14 x 35 x 15 cm)
Weight	9 lb (4 kg)
Power Requirement	AC power (main AC power cord supplied with the unit)

CE

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

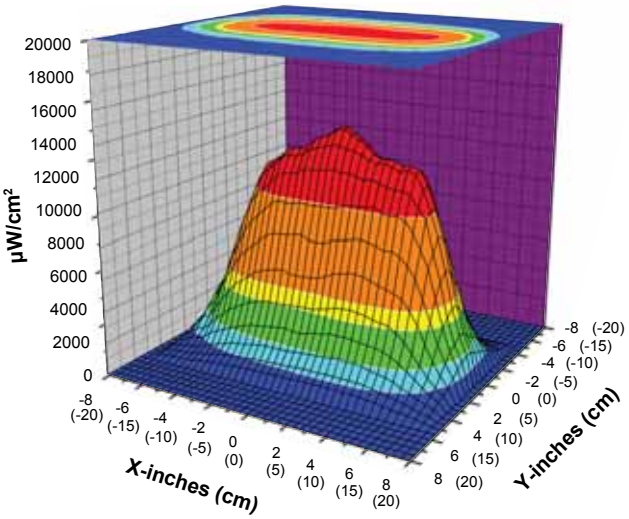


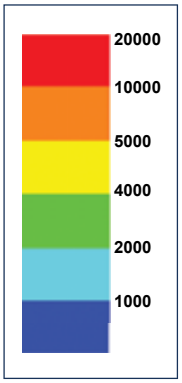
Replacement Parts & Accessories

128177	AC power cord
127918	Particulate air filter
127935	Retainer, LED assembly face plate
DF-450PM	Dichroic filter assembly
CC-200	Connector cable for ganging lamps
CP-100	Top connecting plate for ganging lamps longitudinally
CP-200	Top connecting plate for ganging lamps back-to-back (two required)
CP-300	Side connecting bracket for ganging lamps longitudinally (two required)
UVS-40	Fluorescent-enhancing spectacles, yellow

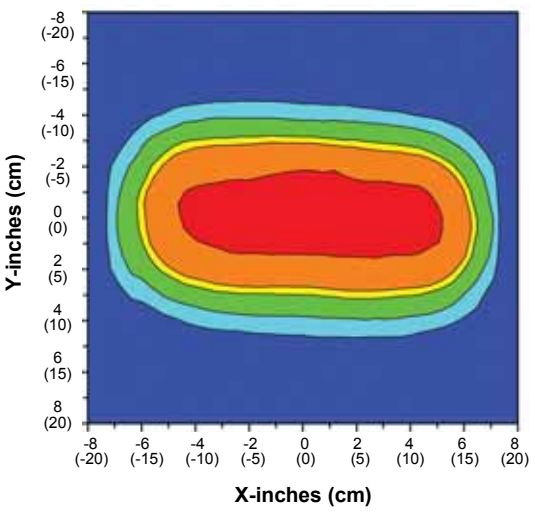
BLUE LIGHT BEAM PROFILE

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)





TOP INTENSITY PROFILE AT 15 IN (38 CM)



ONT-450 On-Trak™ Modular Inspection System

(U.S. and foreign patents pending)

Blue Light LED Inspection System

The **ONT-450 On-Trak™** is an innovative, modular, track light-style inspection system. It features four broad-beam lamps, each of which utilizes three powerful, blue light (450 nm) LEDs. This overhead lighting system provides a fast, safe and effective alternative to UV-A light. It allows inspectors to customize lamp beam patterns to suit their individual needs, and provides the ability to add two additional lamp head assemblies to further increase the coverage area. Perfect for NDT inspection booths, pre-inspections and screening of fluorescent particles in operating conditions with ambient light or any application requiring maximum uniformity of coverage over large areas.



- Powerful, cool running, energy-efficient blue light LEDs
- Broad-beam profiles provide wide coverage area
- Electronic Intensity Stabilizers ensure consistent LED performance
- Instant-on operation; lamps reach full intensity immediately
- Built-in fans keep LEDs cool to maintain optimum light output during extended use
- Rubber bumpers with patented thin-film dichroic lenses filter out long-wave visible light while preventing damage to the LEDs
- Easily customizable! Move, adjust and add up to two additional lamp heads according to *your* specific inspection requirements (additional lamp heads sold separately)
- Optional remote control with two-position rocker switch provides added convenience and versatility
- Comes complete with UVS-40 fluorescence-enhancing spectacles





Optional remote control with two-position rocker switch adds convenience and versatility

LAMP SPECIFICATIONS

Product Number:
ONT-450

Light Sources:
3 blue light LEDs per lamp head

System dimensions: (L x W x H)
28.5 x 18.3 x 11 in (72 x 46 x 28 cm)

Lamp:
Head diameter: 3.25 in (8.3 cm)
Length: 9.5 in (24 cm)

Platform Dimensions: (L x W x H)
28.5 x 18.3 x 2.5 in (72 x 46 x 6 cm)

Platform Weight: 13 lb (5.9 kg)

Power Supply Cord: 8 ft (2.4 m)

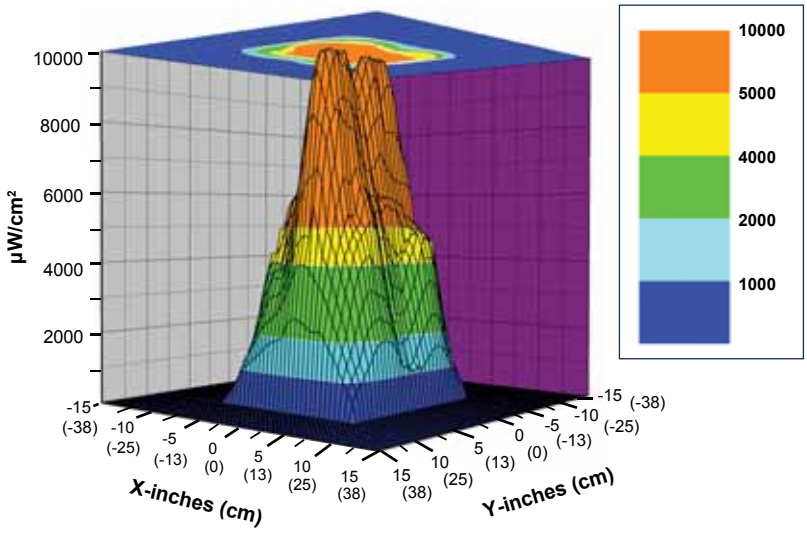
Power Supply:
Input: 100-240 VAC 50/60 Hz
Output: 12 VDC

Nominal Steady-State Blue Light (450 nm) Intensity:
15 in (38 cm) — 9,500 µW/cm²

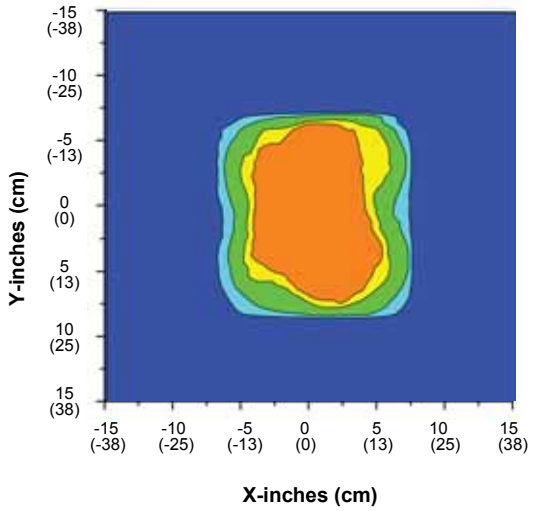
NOTE: Blue light intensity reading taken with a Spectroline® AccuMAX™ Series meter

BLUE LIGHT BEAM PROFILE

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)



TOP INTENSITY PROFILE AT 15 IN (38 CM)



Replacement Parts & Accessories

LA-450	Lamp head assembly with three blue light LEDs
PS-100A	Power supply module
PT-200	Platform and track assembly
RC-300	AC remote control with 8 foot (2.4 m) cord
FP-200	Filter protector with rubber bumper and thin-film dichroic lens
UVS-40	Fluorescence-enhancing spectacles, yellow
AF-200	Air filter (package of 24)

AccuPRO™ Series
Digital Radiometer/Photometers

The **AccuPRO™ Series** meters feature an advanced, microprocessor-controlled readout unit calibrated to accurately measure and display both UV-A and visible light readings for non-destructive testing applications.

Available in <u>two versions:</u> The AccuPRO™ (**XP-2000**) readout unit features a single dual-wavelength sensor detector designed to measure both ultraviolet and visible light. The AccuPRO™ Plus (**XP-4000**) features a single 3-in-1 multi-purpose sensor that measures ultraviolet, visible and blue light.

These compact, lightweight, battery-operated units are ideal for use in the field, the factory or anywhere accurate light measurements are needed!



- Large, easy to read, LCD screen with 4-digit autoranging display
- Both units provide accurate readouts for UV-A irradiance as well as visible illuminance. AccuPRO™ Plus unit also measures blue light
- Simply to use, three-button interface. Toggle between light measurement modes.
- 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
- User-selectable, multilingual display settings at any operational level. Choose from English, French, German, Chinese and Spanish.
- Rugged meter features protective rubber housing for better grip and to help prevent accidental breakage
- Sealed sensor with water-resistant housing
- Multi-wavelength sensor directly attached to meter by 3 ft (0.9 m) cord
- Complies with ASTM specifications for LPT and MPT
- Convenient on-board recharging
- Powered by four rechargeable “AAA” nickel-metal hydride batteries (included)
- Come complete with AC charger and padded carrying case



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

SPECIFICATIONS

Readout Unit

Resolution	4-digit autoranging display
Screen	128 x 64 dot pixel chip on glass STN transmissive monochrome LCD 2.25 in (5.7cm) 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-2000 AccuPRO™

Dual Sensor (UV-A/VIS)

Sensitive to UV and Visible Light

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

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

CE

XRP-3000 AccuMAX™

Digital Radiometer/Photometer

Features an advanced microprocessor-controlled readout unit with a dual-wavelength sensor detector to measure *both* ultraviolet and visible light.

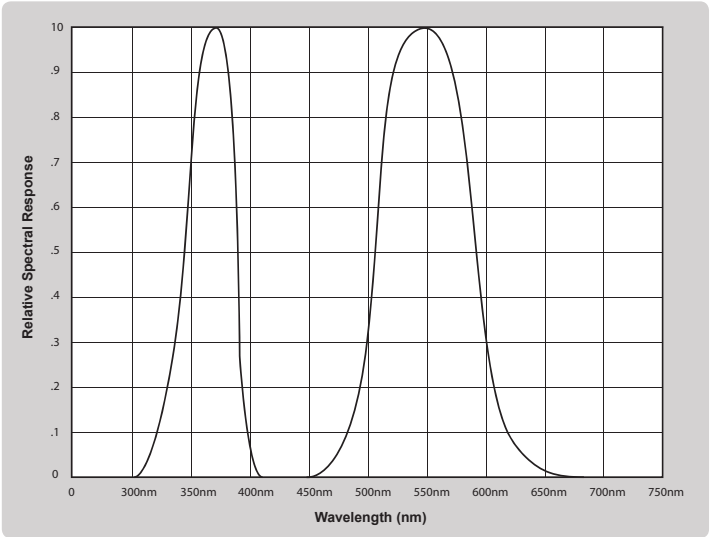
- Large, easy-to-read LCD screen
- Provides readouts for UV-A, visible irradiance or radiance
- Overall accuracy greater than ± 5% per NIST standards
- Choice of direct or USB cable connection between sensor detector and readout unit
- Superior bandpass interference filter
- Automatic zeroing, integration and signal hold
- Excellent cosine response
- User-selectable, multilingual display settings. Choose from English, French, German and Spanish.
- User-defined power save and automatic shutoff
- Rugged meter housing features removable, protective rubber boot for better grip and to help prevent accidental breakage
- Sealed sensor housing and USB connection with water-resistant adapter
- Compact, lightweight and battery-operated for convenient use in the factory, field or anywhere measurements are needed
- Complies with ASTM specifications for LPT and MPT
- Comes complete with readout unit, dual-wavelength sensor detector, USB cable with water-resistant adapter, protective rubber boot, two 9V alkaline batteries and padded carrying case.



XR-1000 readout unit with dual-wavelength sensor detector connected directly to unit



XR-1000 readout unit with dual-wavelength sensor detector connected to unit via USB cable



SPECIFICATIONS

Readout Unit (XR-1000)

Resolution	4-digit autoranging display
Screen	128 x 64 dot pixel chip on glass STN transmissive monochrome LCD 2.8 in (7.1 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 9V alkaline batteries (included)

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)

CE

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)

DM-365XA

Digital UV-A Radiometer

Provides increased accuracy for more repeatable results.

- Measures UV-A light sources with overall accuracy of ± 5% per NIST standards
- Autozeroing, excellent linearity and cosine response, solid-state design, compact, durable, simple operation, battery-level indicator
- Sealed silicone photodiode protects against shock and humidity
- Sensor housing is constructed with series of baffles and unique self-sealing mechanism to eliminate light leakage
- Compact, lightweight and battery operated so measurements can be taken anywhere
- Complies with ASTM specifications for LPT and MPT



SPECIFICATIONS

Readout Unit

Resolution	10 µW/cm²
Screen	4½ digit, 7 segment, LED display 0.5 in (1.3 cm) high
Overall Accuracy	Better than ± 5% with reference to NIST standards
Temperature Coefficient	± 0.025%/°C (0 to 50°C)
Irradiance Range	0-19,900 µW/cm²
Spectral Range	320-400 nm
Power Requirements	Two “AA” alkaline batteries (included)
Length	7¼ in (18.4 cm)
Width	3.5 in (8.9 cm)
Thickness	2 in (5.1 cm)
Weight	1 lb (0.45 kg)

CE

Sensor Detector

Length	3 in (7.6 cm)
Width	2 in (5.1 cm)
Thickness	0.70 in (1.8 cm)
Weight	1¼ lb (0.57 kg)
Cord Length	3 ft (91.4 cm)



BP-12A
BATTERY PACK
Complete with RB-12S Smart Charger with Cordset, 12 Volt Rechargeable NiMH Battery and Nylon Carrying Case for MAXIMA™ ML-3500 Series Lamps



BP-30
BATTERY PACK
Complete with BR-150A Smart Charger, 12 Volt Rechargeable NiMH Battery for QUADRAN™ QDR-365M, TRITAN™ TRI-365M and TRI-450MB AC/DC Lamp Kits



CC-120A
CARRYING CASE
for BIB-150P Series. FC-Series and SB-100P Series Lamps



CC-350
CARRYING CASE
for MAXIMA™ ML-3500 Series Lamps



CC-365
CARRYING CASE
for OPTIMAX™ OPX-365 and OPX-450 Flashlights



CC-370A
CARRYING CASE
for EagleEye™ and TRITAN™ Series Lamp Kits



CC-400
CARRYING CASE
for QUADRAN™ 365 Series Lamp Kits



UVS-30
SPECTACLES
UV-Absorbing



UVS-40
SPECTACLES
Fluorescence-Enhancing



UVF-80
FACE SHIELD
UV-Absorbing



UVG-50
GOGGLES
UV-Absorbing

Using genuine Spectroline® replacement parts ensures that lamps will operate at their optimum performance.



BLE-35PRA
MDL BULB/POLISHED REFLECTOR ASSEMBLY

for MAXIMA™ ML-3500 Series Lamps



BLE-35RA
MDL BULB/COATED REFLECTOR ASSEMBLY

for MAXIMA™ ML-3500 Series Lamps



BLE-35RAF
MDL BULB/ANODIZED REFLECTOR ASSEMBLY

for MAXIMA™ ML-3500 Series Lamps
for CH-50P/12 and MAXIMA™ ML-3500 Series Lamps



BLE-400
METAL HALIDE BULB

400 Watt for SuperFlood™ UV-400 Series Lamps



119584
MDL BULB

35 Watt for MAXIMA™ ML-3500 Series Lamps



120344
COATED SPOT REFLECTOR

for MAXIMA™ ML-3500 Series Lamps



120514
ANODIZED FLOOD REFLECTOR

for MAXIMA™ ML-3500 Series Lamps



123378
POLISHED REFLECTOR

for MAXIMA™ ML-3500 Series Lamps



127423
DOME LENS

for OPTI-LUX™ 365 Series LED Flashlights



OF-300W
LED LAMP HEAD, WHITE LIGHT

for OPTIMAX™ OPK-300N Multi-Lite™ Lamp



OF-365UV
LED LAMP HEAD, UV (365 NM)

for OPTIMAX™ OPK-300N Multi-Lite™ Lamp



OF-450BD
LED LAMP HEAD, BLUE LIGHT (450 NM)

with dichroic lens for OPTIMAX™ OPK-300N Multi-Lite™ Lamp



2F110
UV-A FILTER

for SuperFlood™ UV-400 Series Lamps



2F350
DIFFUSING FILTER

for FC-Series and MAXIMA™ ML-3500 Series Lamps



2F400B
UV-B BLOCKING FILTER

for SuperFlood™ UV-400 Series Lamps



2F958
UV-A FILTER

for BIB-150P Series, FC-Series and MAXIMA™ ML-3500 Series Lamps



125565
RUBBER LAMP PROTECTOR

for OPTIMAX™ Flashlights



127796
RUBBER LAMP PROTECTOR
for OPTI-LUX™ 365 Flashlight



BF-365LX
EXTERNAL BLACK LIGHT FILTER WITH RUBBER BUMPER
for OPTI-LUX™ 365 Flashlight



DF-365
DIFFUSING FILTER
for OPTIMAX™ OPX-365 Flashlight



FP-100
FILTER PROTECTOR
with Rubber Bumper/Borofloat® glass lens for ONT-365 On-Trak™ Inspection System Lamps



FP-200
FILTER PROTECTOR
with Rubber Bumper/Dichoric glass lens for ONT-450 On-Trak™ blue light Inspection System Lamps



FP-365
FILTER PROTECTOR
with Rubber Bumper/Borofloat® Glass for TRITAN™ 365 Series Lamps



FP-450
FILTER PROTECTOR
with Rubber Bumper/Dichroic Filter for TRITAN™ 450 Series Lamps



HS-100
HEAD STRAP
for EagleEye™ Lamp



LMS-100
LAMP MOUNT/SPRAYER
for EagleEye™ Lamp



SG-100
SPLASH GUARDS WITH INTEGRAL PARTICULATE FILTER
for EagleEye™ Lamp (3 pack)



127243
HOLSTER
for OPTIMAX™ OPX-365 and OPX-450 Flashlights



127574
BELT HOLSTER
For OPTI-LUX™ 365 Series Flashlights

Using genuine Spectroline® replacement parts ensures that lamps will operate at their optimum performance.



124826
CORD SET
2 Foot (0.6 m), 7 Pin for MAXIMA™ ML-3500 Series Lamps (12V DC version)



124827
CORD SET
8 Foot (2.4 m), 7 Pin for MAXIMA™ ML-3500 Series Lamps (230V version)



124828
CORD SET
8 Foot (2.4 m), 7 Pin for MAXIMA™ ML-3500 Series Lamps (115V and 100V versions)



129141
AC CORD SET
8 Foot (2.4 m) for QUADRAN™ A and TRITAN™ B Series Lamps



129145
AC CORD SET
20 Foot (6.1 m) for QUADRAN™ A and TRITAN™ B Series Lamps



127435
DC CORD SET
3.5 Foot (1.1 m) for QUADRAN™ A and TRITAN™ B "M" Series Lamps



128217
BATTERY CHARGING CRADLE
with AC cord for Eagle-Eye™ Inspection Lamp and OPTI-LUX™ 365 Series Flashlights



128225
DC CORD SET
for Eagle-Eye™ Inspection Lamp and OPTI-LUX™ 365 Series Flashlights



BR-150A
SMART BATTERY CHARGER
for BP-30 Battery Pack



PS-200A
INDUSTRIAL POWER SUPPLY
with cord sets for QUADRAN™ 365 and TRITAN™ Series Lamps



PS-300A
IN-LINE POWER SUPPLY
for QUADRAN™ 365 and TRITAN™ Series Lamps



PSA-250A
POWER SUPPLY ADAPTER
with AC and 12V DC connections for QUADRAN™ and TRITAN™ "M" Series Lamps



RB-12S
SMART BATTERY CHARGER
for BP-12A Battery Pack



RB-300
SMART AC CHARGER
for OPTIMAX™ OPK-300N, OPX-365 and OPX-450 Flashlights



RB-300DC
12V DC CHARGER
for OPTIMAX™ OPK-300N, OPX-365 and OPX-450 Flashlights



RC-200
AC REMOTE CONTROL
for On-Trak™ ONT-365 UV-A Inspection System with 8 foot (2.4 m) cord



RC-300
AC REMOTE CONTROL
for On-Trak™ ONT-450 Blue Light Inspection System with 8 foot (2.4 m) cord



125608
BATTERY STICK WITH TAILCAP
for OPTIMAX™ OPK-300N, OPX-365 and OPX-450 Flashlights



127568
LITHIUM-ION BATTERY
Rechargeable for EagleEye™ Lamp and OPTI-LUX™ 365 LED Flashlights



XCB-100
WATER-RESISTANT USB CABLE WITH ADAPTER
for AccuMAX™ Meter



XCC-100
CARRYING CASE
for AccuMAX™ XRP-3000 Meter



XRB-100
RUBBER BOOT
for AccuMAX™ XR-1000 Readout Unit



AB-100
ADAPTER BRACKET
for Mounting Transformer-Based Spectroline® HID Lamps onto a Magnaflux® Wet Horizontal Mag Machine



B-6
BENCH MOUNT
for all Spectroline® HID, QUADRAN™ and TRITAN™ Series Lamps



FA-100
FLEXIBLE ARM
for all Spectroline® HID, QUADRAN™ and TRITAN™ Series Lamps



LH-200
LAMP HOLDER
for OPTIMAX™ OPX-365 and OPX-450 Flashlights (for use with VF-100A)



LH-300A
LAMP HOLDER
for TRITAN™ Series Lamps (for use with VF-100A, FA-100, WM-100, B-6 and W-6)



VF-100A
SPEC-STIK™ VERIFICATION FIXTURE
for all Spectroline® sensors, as well as HID, QUADRAN™, TRITAN™ and OPTIMAX™ Series Lamps.

NOTE: Lamp mounting accessories for TRITAN™ and OPTIMAX™ Series Lamps are sold separately (see LH-200 and LH-300A)



W-6
WALL MOUNT
for all Spectroline® HID and TRITAN™ Series Lamps



WM-100
WALL MOUNTING BRACKET
for all Spectroline® HID, QUADRAN™ and TRITAN™ Series Lamps

Using genuine Spectroline® replacement parts ensures that lamps will operate at their optimum performance.



100S
SPOT BULB

Ad-Medium Base, 100 Watt for SB-100P and FC-Series Lamps



100S/M
SPOT BULB

Medium Base, 100 Watt for SB-100P and FC-Series Lamps



100S/M-PQL
UPGRADED, PREMIUM QUALITY LIGHTING SPOT BULB

Medium Base, 100 Watt for SB-100P and FC-100 Series Lamps



BLE-150BS-115/M
BROAD-BEAM BULB

Self-Ballasted, 150 Watt for BIB-150P Series Lamps (115 volt version)



BLE-150CS-100/M
CONCENTRATED SPOT BULB

Self-Ballasted, 150 Watt for BIB-150P Series Lamps (100 volt version)



BLE-150CS-115/M
CONCENTRATED SPOT BULB

Self-Ballasted, 150 Watt for BIB-150P Series Lamps (115 volt version)



BLE-150CS-230/M
CONCENTRATED SPOT BULB

Self-Ballasted, 150 Watt for BIB-150P Series Lamps (230 volt version)



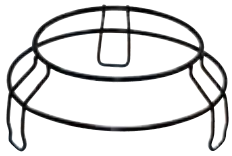
BLE-150FC-115/M
CONCENTRATED SPOT BULB

Self-Ballasted, 150 Watt for FC-150 Lamp (115 volt version)



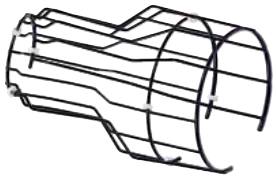
BLE-150FC-230/M
CONCENTRATED SPOT BULB

Self-Ballasted, 150 Watt for FC-150 Lamp, (230 volt version)



FP-175
FILTER PROTECTOR/LAMP STAND

for BIB-150PR and FC-Series Lamps



HGS-100A
HEAT GUARD/STAND

for SB-100P Series Lamps



HGS-150A
HEAT GUARD/STAND

for BIB-150P and BIB-150PX Lamps

***Mercury Vapor Bulbs.**

COMPANY BACKGROUND

Spectronics Corporation is the world's leading manufacturer of ultraviolet equipment and fluorescent materials. Spectronics supplies over 1,000 different products for the nondestructive testing, laboratory, biotechnology, industrial, electronics, semi-conductor, forensics, financial, automotive, HVAC/R and other markets.

Spectronics' modern, 100,000 square-foot manufacturing facility and office headquarters is located in Westbury, New York. Nearly 200 personnel are involved in all phases of research and development, manufacturing, sales, marketing, customer service, and logistical and technical support.

Over five decades since its inception, the goal of Spectronics is still the same — to produce effective, top-quality products with the utmost dedication to customer satisfaction.



Product Specifications

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.

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.

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, bulbs, filters and rechargeable batteries are warranted for 30 days; the 100S/M-PQL bulb is warranteed 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.

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.

Order Information

Technical Assistance

Local Sales Representatives

Authorized Distributors

PHONE (516) 333-4840 | FAX (516) 333-4859 | WWW.SPECTROLINE.COM

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