

# Powerful, Multi-LED, Broad-Beam UV-A NDT Inspection Lamps!

## SPECTROLINE®

# TRITAN™ 365 Series

(Patent Pending)

**TRITAN™ 365 Series** NDT 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.



### Features :

- ▶ Choice of one high-intensity model with a nominal steady-state UV-A intensity of  $9,000 \mu\text{W}/\text{cm}^2$  or two standard-intensity models, both with a maximum UV-A intensity of less than  $5,000 \mu\text{W}/\text{cm}^2$  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  $2,000 \mu\text{W}/\text{cm}^2$
- ▶ Low visible light emission – less than 2 foot-candles (22 lux)
- ▶ 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
- ▶ 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). All power supplies available in 120V, 230V, 240V and 100V models.
- ▶ Meets ASTM UV-A intensity and wavelength specifications for FPI and MPI
- ▶ *Certificate of compliance* for both output and wavelength measurements is supplied with each lamp
- ▶ UV-absorbing spectacles and soft carrying case included



### Also available:

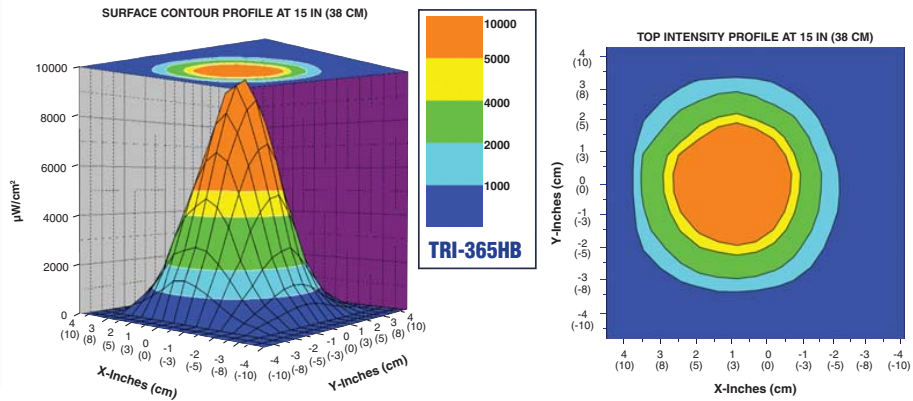
**TRITAN™ 365M Series** portable, battery-operated AC/DC lamp kits. Include TRITAN™ 365 UV lamp, rechargeable NiMH battery pack, AC and DC cord sets, smart AC charger, UV-absorbing spectacles and soft carrying case.

# HIGH-INTENSITY MODEL

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  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm).

## UV-A Beam Profile



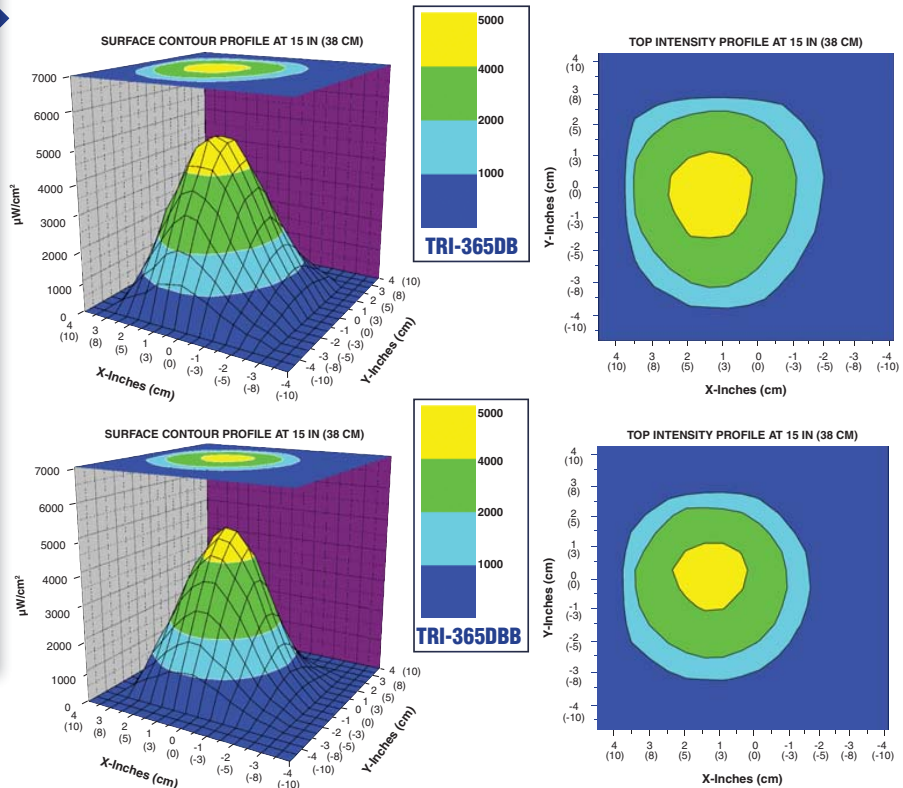
# STANDARD-INTENSITY MODELS

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

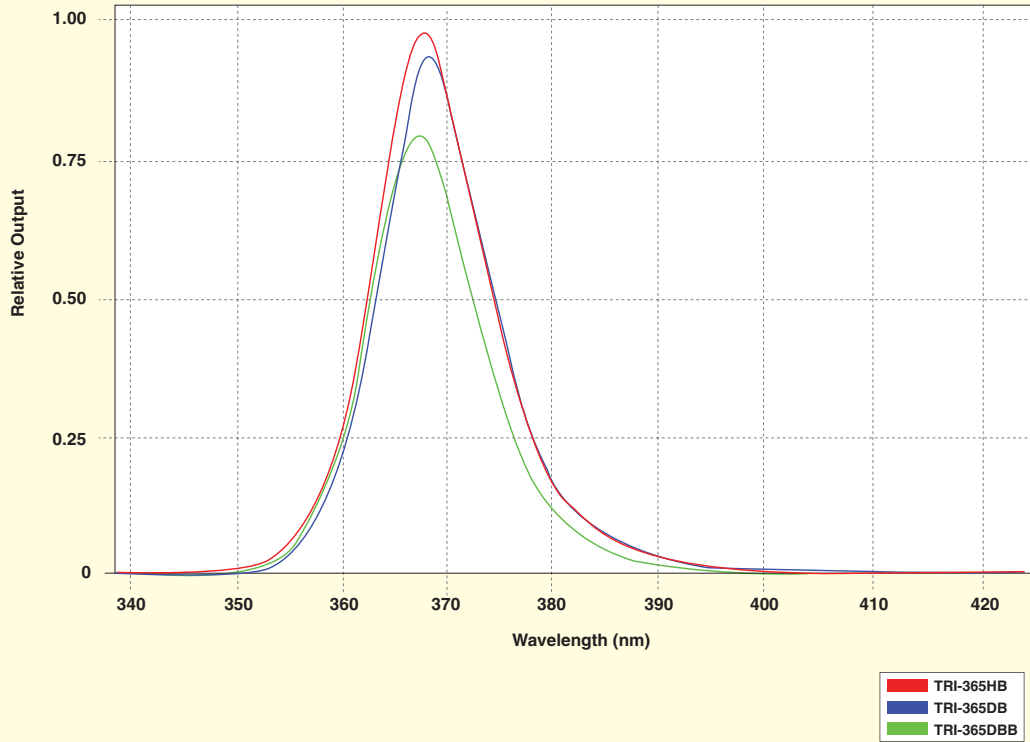
The TRI-365DB is fitted with a clear glass filter. The TRI-365DBB is equipped with a faceplate with integral black light filters that cover each of the LEDs and reduce the output of wavelengths longer than 400 nm.

Both versions are “tuned” to ensure that they provide a maximum steady-state UV-A intensity of **less than 5,000  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm). This addresses aerospace industry concerns.

## UV-A Beam Profile

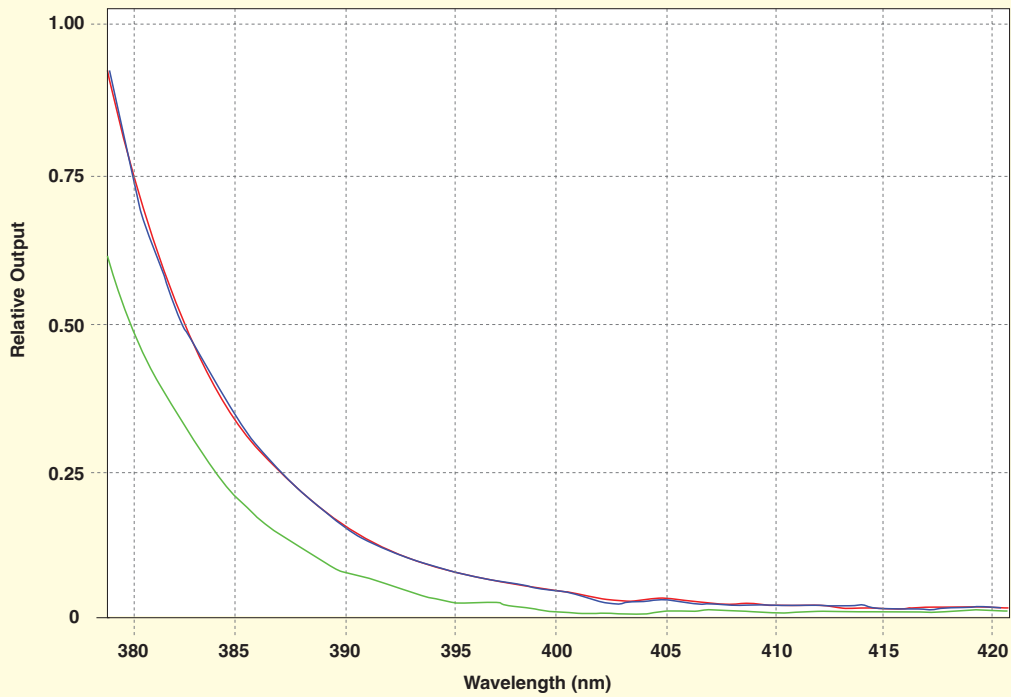


### NORMALIZED UV IRRADIANCE



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

### WAVELENGTHS WITH AND WITHOUT BLACK LIGHT FILTERS



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.

## SPECIFICATIONS

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)
<b>TRI-365HB</b> High intensity, with clear filter	9,000 $\mu\text{W}/\text{cm}^2$	< 2 foot-candles (22 lux)	4 inch (10 cm)
<b>TRI-365DB</b> Standard intensity, with clear filter	< 5,000 $\mu\text{W}/\text{cm}^2$ maximum ②	< 2 foot-candles (22 lux)	4 inch (10 cm)
<b>TRI-365DBB</b> Standard intensity, with integral black light filters	< 5,000 $\mu\text{W}/\text{cm}^2$ maximum ②	< 2 foot-candles (22 lux)	4 inch (10 cm)

TRITAN™ 365 faceplate with (top) and without (below) integral black light filters.

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



## REPLACEMENT PARTS & ACCESSORIES

<b>129141</b>	Standard, 8 foot (2.4 m) AC power cord
<b>129145</b>	Extra-long, 20 foot (6.1 m) AC power cord
<b>129162</b>	3.5 foot (1.1 m) DC power cord for "M" series lamps
<b>127933</b>	Particulate filter assembly
<b>127955</b>	Standard faceplate
<b>128196</b>	Faceplate with integral black light filters
<b>BP-30</b>	Battery pack with 12V rechargeable NiMH battery
<b>BR-150A</b>	Smart AC charger
<b>CC-370A</b>	Soft carrying case
<b>FP-365</b>	Rubber bumper with Borofloat® glass
<b>PSA-250A</b>	AC/DC power supply adapter for "M" series lamps
<b>PS-200A</b>	Industrial power supply with cord set
<b>PS-300A</b>	In-line power supply
<b>UL-100</b>	UV-A lens
<b>UVS-30</b>	UV-absorbing spectacles

For added versatility, choose between our optional PS-300A in-line power supply (top) or extra-rugged PS-200A industrial power supply (bottom).

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