

**SPECTROLINE®**

# QUADRAN™ 365

## Series

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

QUADRAN™ 365 Series NDT 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 handheld and in-line applications. Models are available either with or without integral black light filters to meet your specific inspection requirements.

#### FEATURES:

- ▶ Dual-intensity capability: High setting produces a nominal steady-state UV-A intensity as high as  $8,000 \mu\text{W}/\text{cm}^2$ ; standard setting produces a nominal steady-state intensity of  $4,500 \mu\text{W}/\text{cm}^2$ , both at 15 inches (38 cm)
- ▶ Extremely large coverage area of up to 6 inches (15 cm), with a minimum UV-A intensity of  $2,000 \mu\text{W}/\text{cm}^2$
- ▶ 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). All power supplies available in 120V, 230V, 240V and 100V models.



#### Also Available:

QUADRAN™ 365 M-Series portable, battery-operated AC/DC lamp kits. Include QUADRAN™ 365 UV lamp, rechargeable NiMH battery pack, AC and



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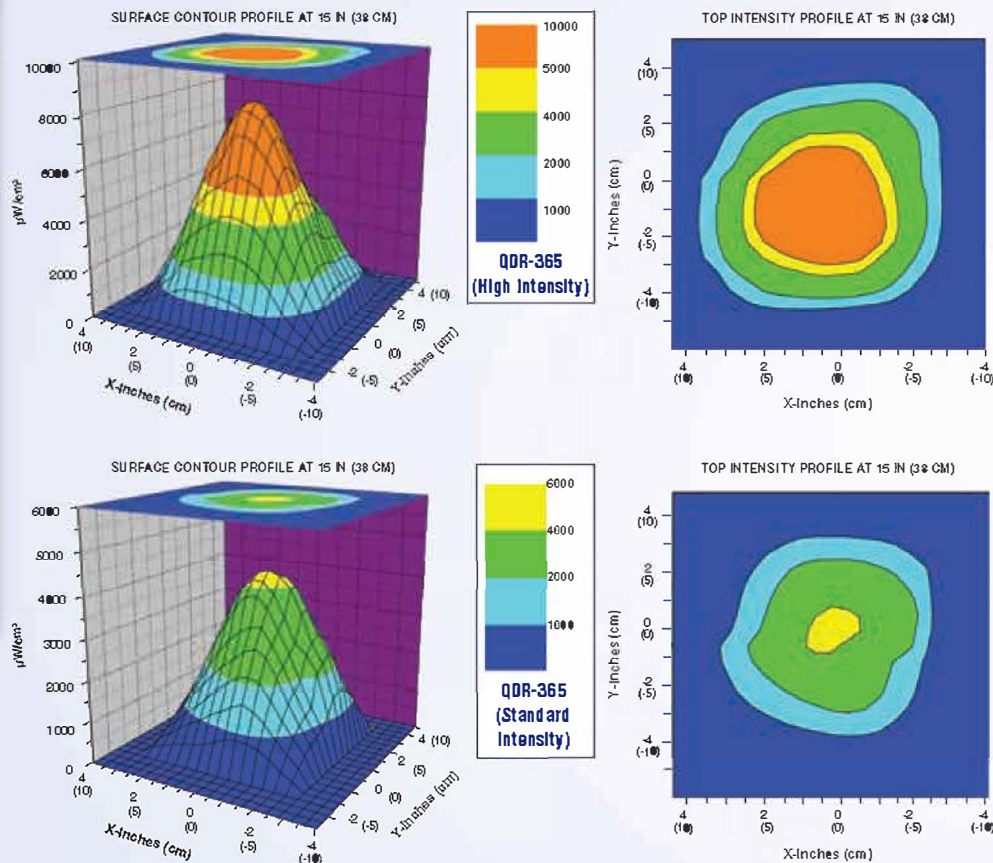
# QDR-365 Model

When the QDR-365 is in **high intensity** mode, the lamp provides a nominal steady-state UV-A intensity of **8,000  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm).

When switched to the **standard intensity** mode, the QDR-365 provides a nominal steady-state UV-A intensity of **4,500  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm).

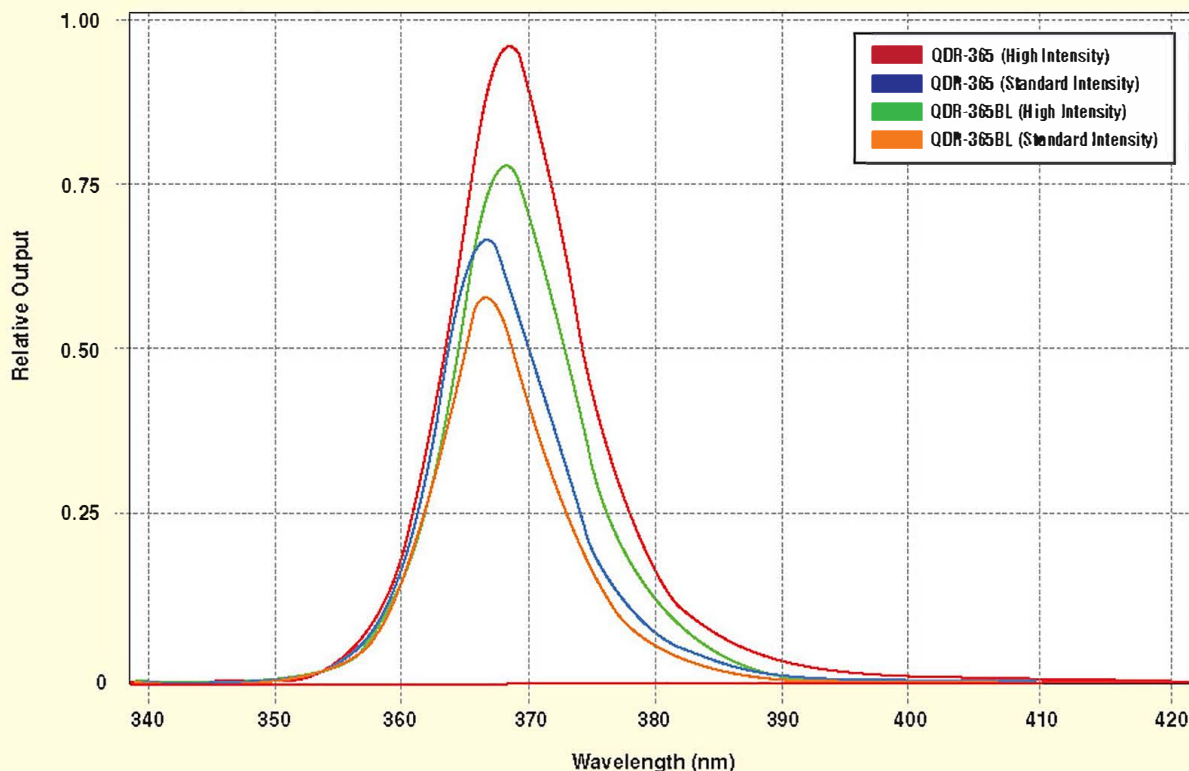
In addition, the lamp has a high/low switch to control the white light LED output.

## UV-A Beam Profile



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

## Normalized UV Irradiance



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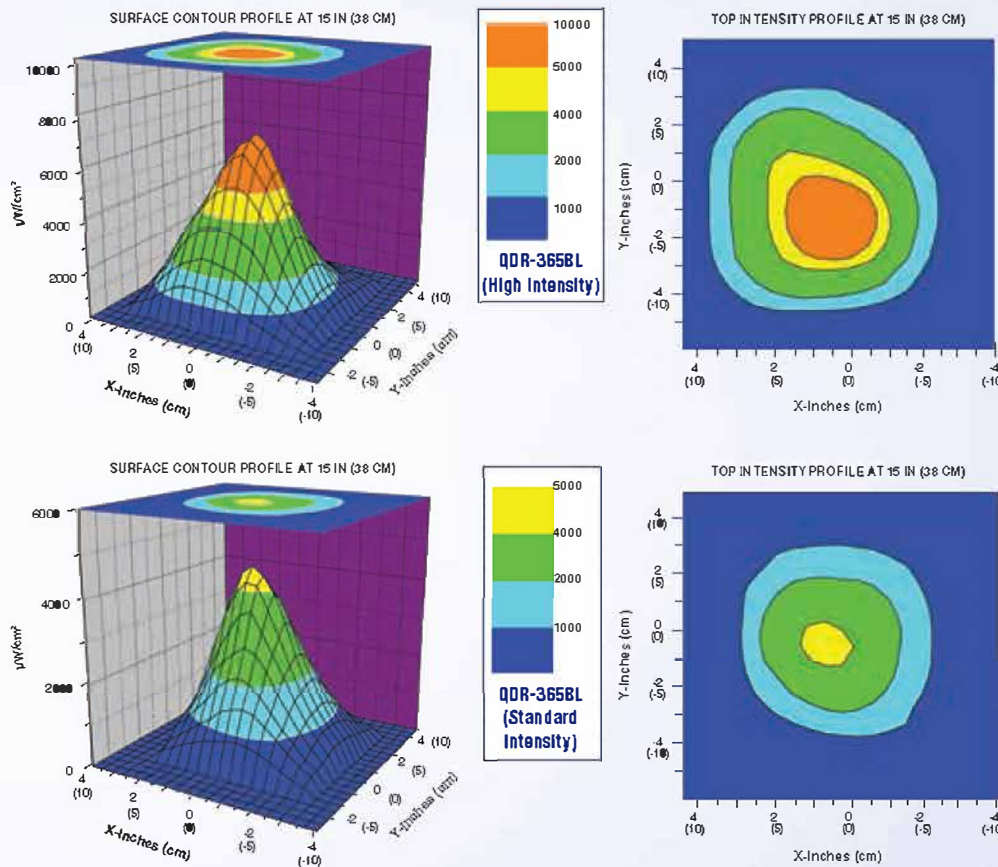
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# QDR-365BL Model

## UV-A Beam Profile

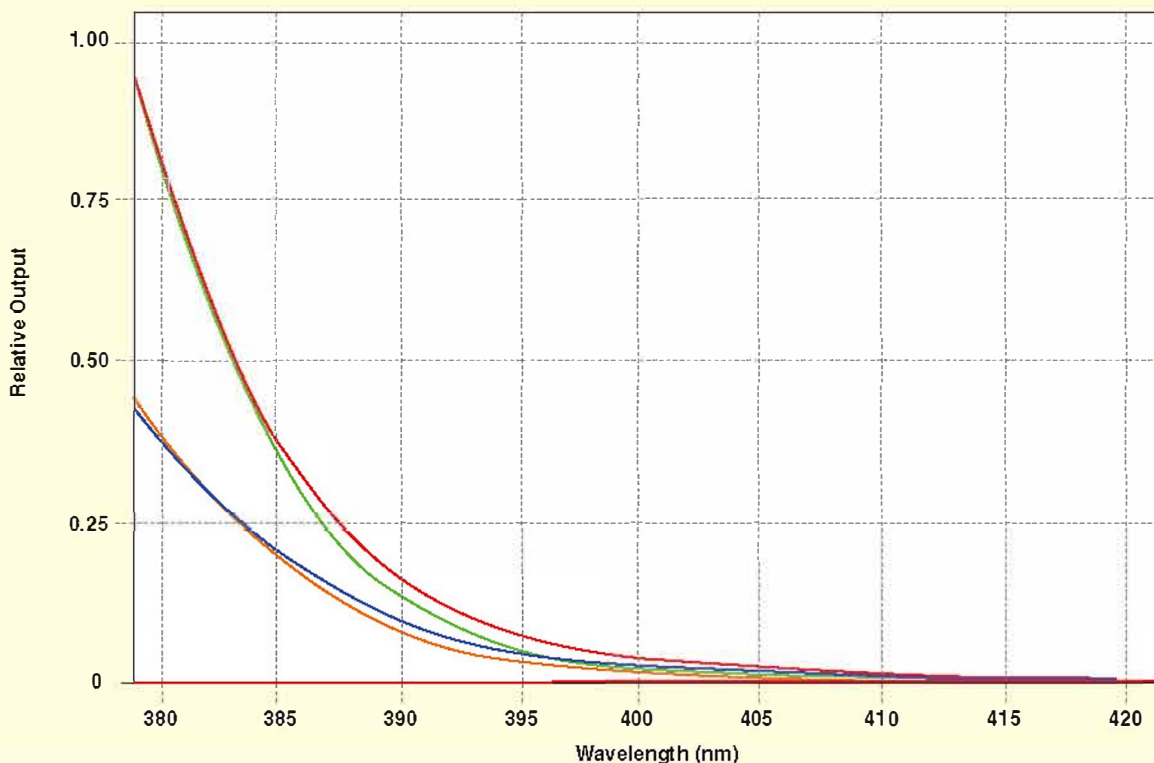


The QDR-365BL is equipped with integral black light filters that reduce the output of wavelengths longer than 400 nm. When in the **high intensity** mode, the lamp provides a nominal steady-state UV-A intensity of **7,000  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm).

When switched to the **standard intensity** mode, the QDR-365BL provides a nominal steady-state standard UV-A intensity of **4,500  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm).

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

## Wavelengths With and Without Black Light Filter



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





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



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



## Specifications

UV Switch Setting	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)
<b>QDR-365</b>			
Standard	4,500 µW/cm² maximum	< 2 foot-candles (22 lux)	5 in (13 cm)
High	8,000 µW/cm²	< 2 foot-candles (22 lux)	6 in (15 cm)
<b>QDR-365BL</b>			
Standard	4,500 µW/cm² maximum	< 2 foot-candles (22 lux)	4 in (10 cm)
High	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-365, QDR-365BL) 120VAC\* power cord supplied with lamp

**AC/DC lamp**  
 (QDR-365M, QDR-365MBL) 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



## Replacement Parts & Accessories

127427	Standard, 8 foot (2.4 m) AC power cord
127431	Extra-long, 20 foot (6.1 m) AC power cord
127435	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-200	Industrial power supply with cord set
PS-300	In-line power supply
W-6	Bench mount with pin
WM-100	Wall mounting bracket
UL-100	UV-A lens
UVS-30	UV-absorbing spectacles

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