

**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.
- ▶ UV-absorbing spectacles and soft carrying case included



#### Also Available:

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

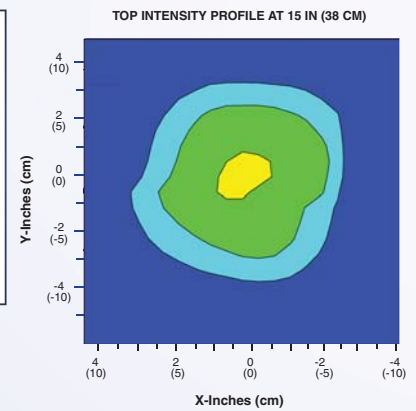
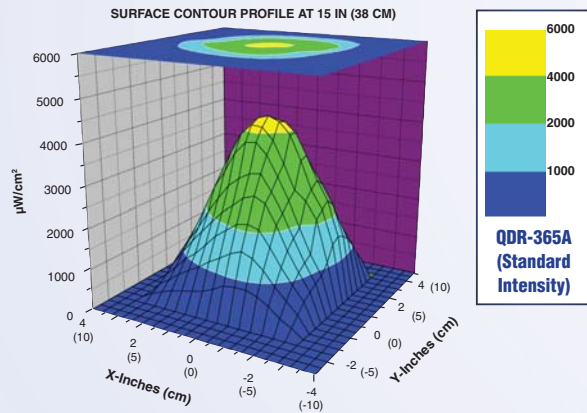
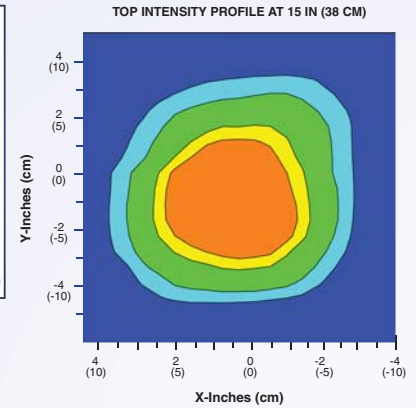
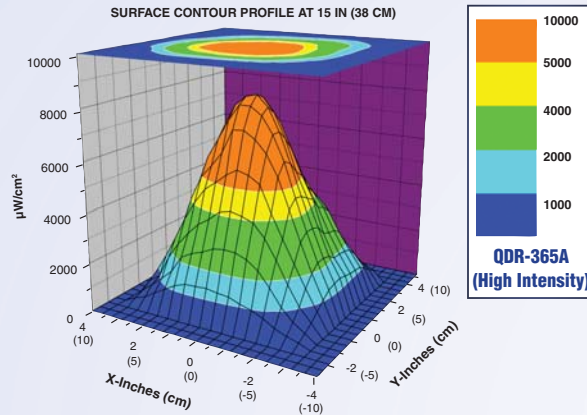
# QDR-365A Model

When the QDR-365A 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).

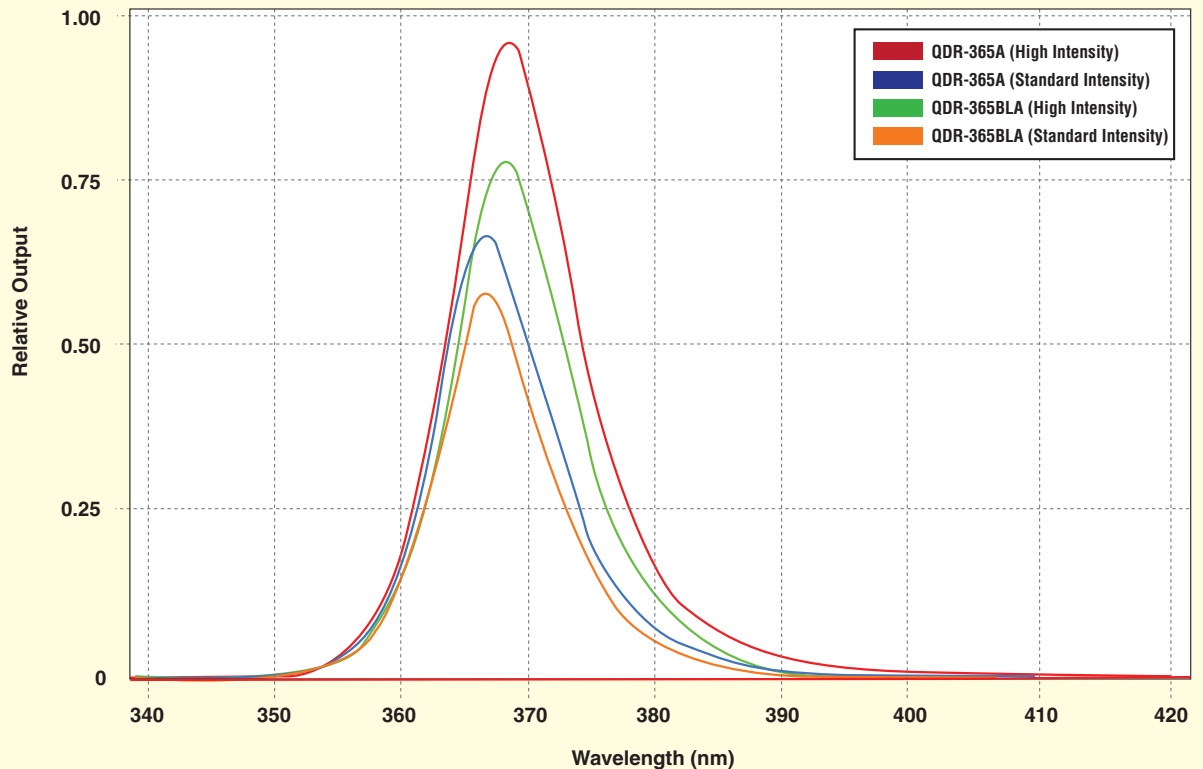
When switched to the **standard intensity** mode, the QDR-365A provides a nominal steady-state UV-A intensity of **4,500  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm).

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

## UV-A Beam Profile



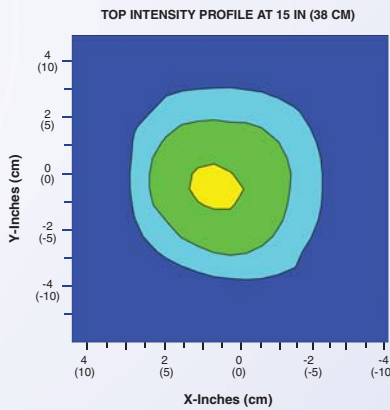
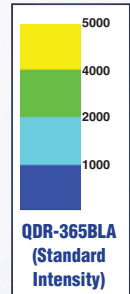
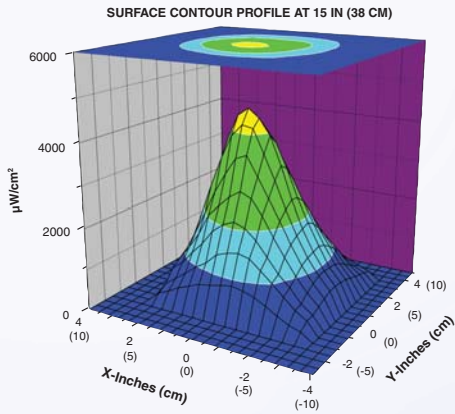
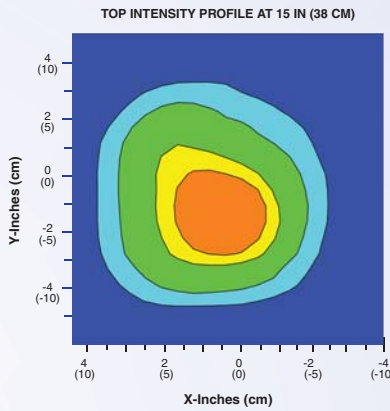
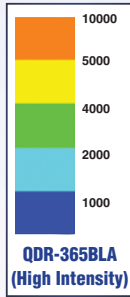
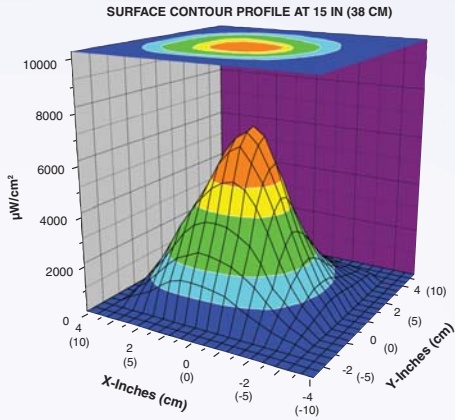
## Normalized UV Irradiance



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

# QDR-365BLA Model

## UV-A Beam Profile

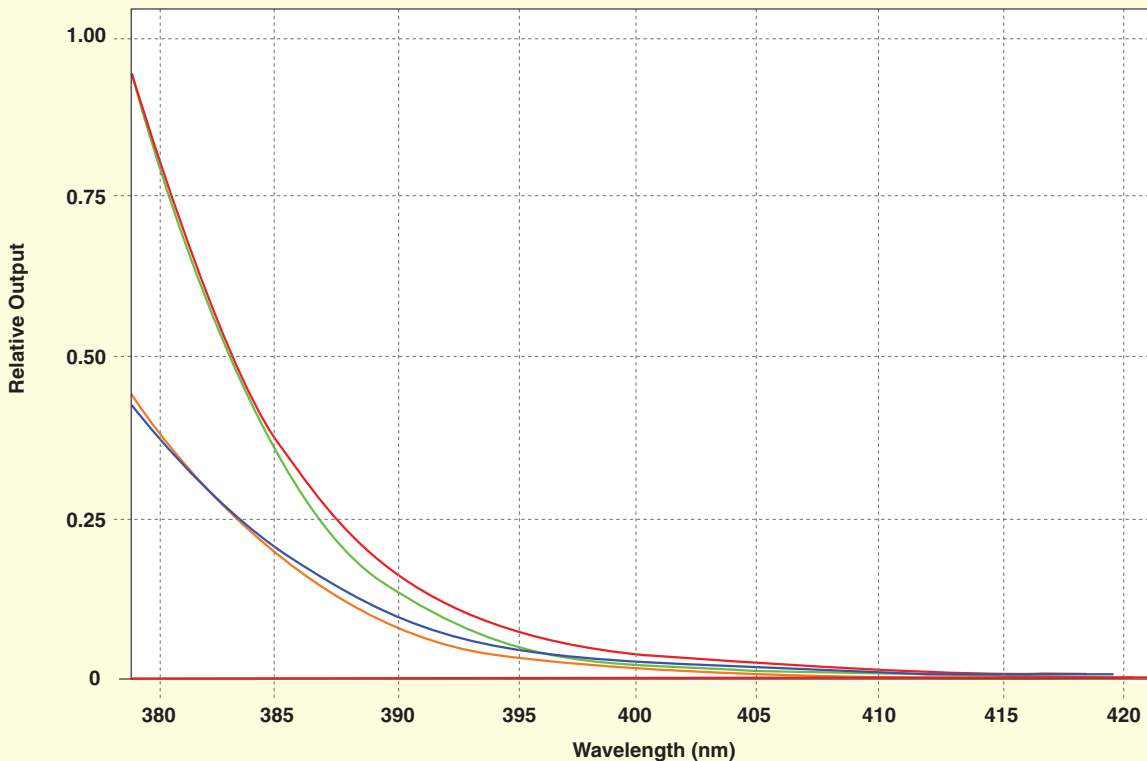


The QDR-365BLA is equipped with integral black light filters that reduce the output of wavelengths longer than 400 nm. When in the **high intensity** mode, the lamp provides a nominal steady-state UV-A intensity of **7,000  $\mu\text{W}/\text{cm}^2$**  at 15 inches (38 cm).

When switched to the **standard intensity** mode, the QDR-365BLA 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 QUADRAN™ 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 Spectrolite® 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-365A</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-365BLA</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-365A, QDR-365BLA) 120VAC\* power cord supplied with lamp

**AC/DC lamp**  
 (QDR-365MA, QDR-365MBLA) 120VAC\*/12VDC

**Battery Pack:** 12V, NiMH (rechargeable)  
**Type**

**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 Spectrolite® AccuMAX™ Series meter, and are factory set to the values shown



## 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>127922</b>	Particulate filter assembly
<b>127944</b>	Standard faceplate
<b>128094</b>	Faceplate with integral black light filters
<b>B-6</b>	Bench mount
<b>BP-30</b>	Battery pack with 12V rechargeable NiMH battery
<b>BR-150A</b>	Smart AC charger
<b>CC-400</b>	Soft carrying case
<b>FA-100</b>	Flexible arm
<b>FP-550</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>W-6</b>	Bench mount with pin
<b>WM-100</b>	Wall mounting bracket
<b>UL-100</b>	UV-A lens
<b>UVS-30</b>	UV-absorbing spectacles

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