

SPECTROLINE®

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QUADRAN™ 365

S-Series

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

QUADRAN™ 365 S-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. 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 hand-held and in-line applications. Two models are available, either with or without integral black light filters to meet *your* specific NDT inspection requirements.



FEATURES:

- ▶ Choice of two models, both with a maximum standard UV-A intensity of $4,500 \mu\text{W}/\text{cm}^2$ at 15 inches (38 cm)
- ▶ Extremely large coverage area of up to 5 inches (13 cm), with a minimum UV-A intensity of $2,000 \mu\text{W}/\text{cm}^2$
- ▶ 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 Spectrolines® 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.
- ▶ **Meet ASTM UV-A intensity and wavelength specifications for FPI and MPI**
- ▶ **Certificate of compliance for both output and wavelength measurements supplied with each lamp**
- ▶ UV-absorbing spectacles and soft carrying case included



Also Available:

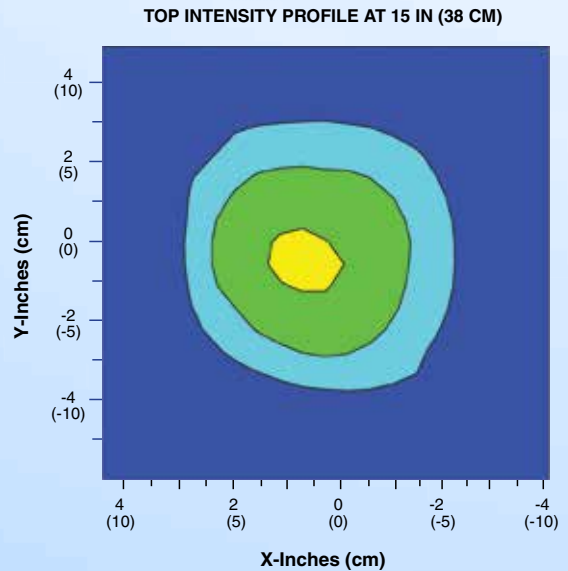
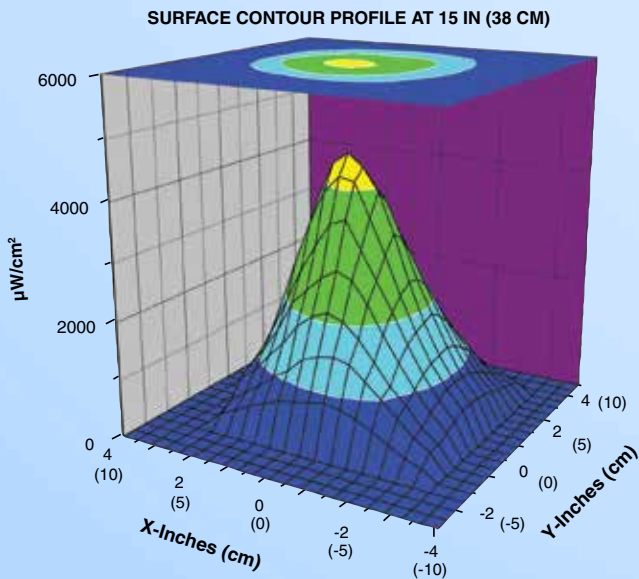
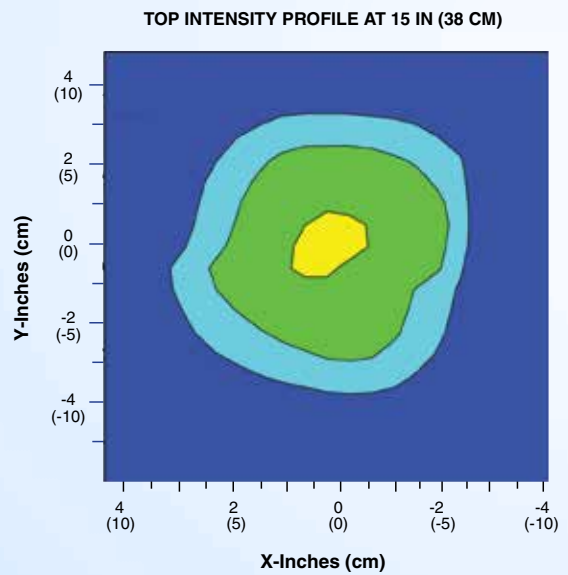
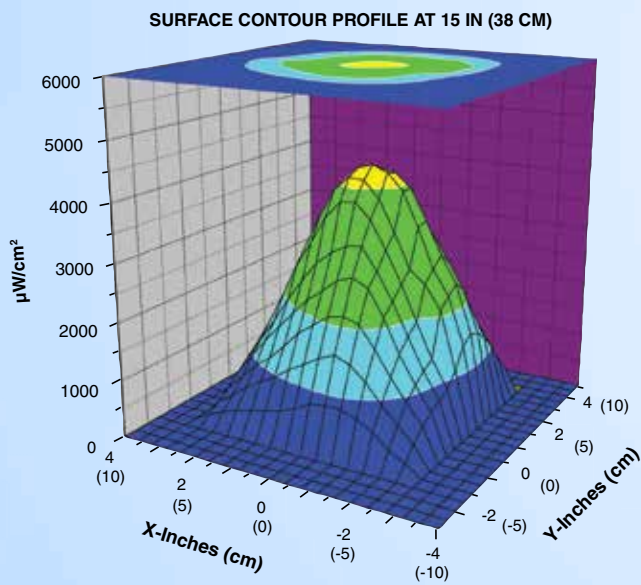
QUADRAN™ 365MS Series portable, battery-operated AC/DC lamp kits. Include QUADRAN™ 365 UV lamp, rechargeable NiMH battery pack, AC and DC cord sets, smart AC charger, UV-absorbing spectacles and soft carrying case.

QUADRAN™ 365 S-Series lamps are available in two models (QDR-365S and QDR-365SBL). Both are designed for NDT inspection applications requiring limited UV-A output. The QDR-365S comes with a standard faceplate. The QDR-365SBL is equipped with a faceplate containing integral black light filters that reduce the output of wavelengths longer than 400 nm.

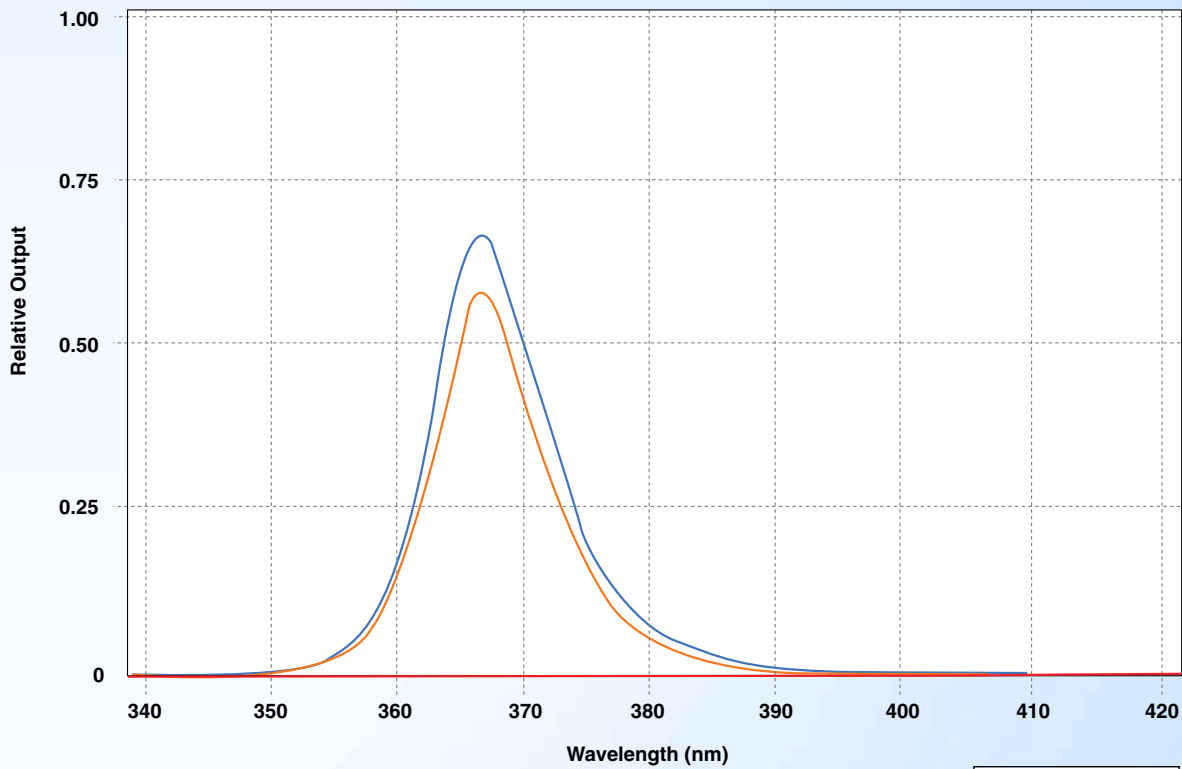
Both lamps are “tuned” to provide a nominal steady-state UV-A intensity of $4,500 \mu\text{W}/\text{cm}^2$ at 15 inches (38 cm). This addresses aerospace industry concerns.

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

UV-A Beam Profiles

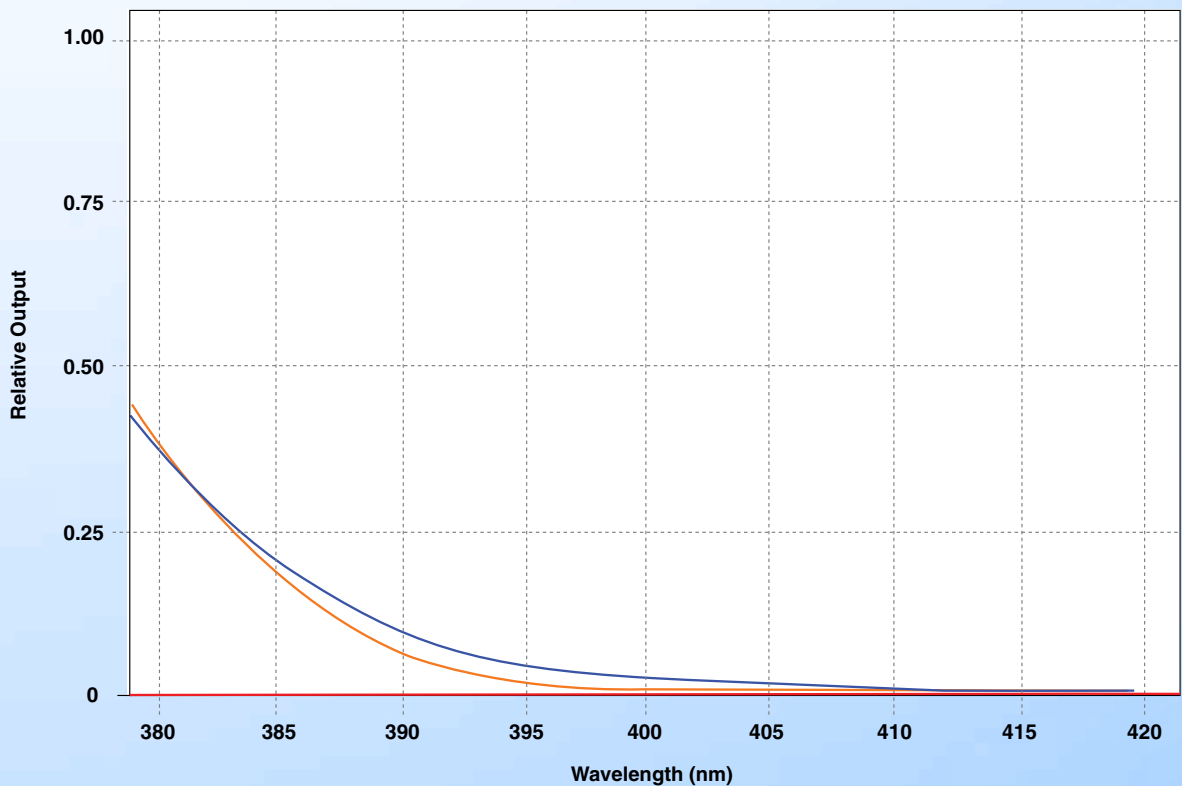


Normalized UV Irradiance



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

Wavelengths With and Without Black Light Filters



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.



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



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



Specifications

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-365S	4,500 μW/cm² maximum ②	< 2 foot-candles (22 lux)	5 in (13 cm)
QDR-365SBL 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-365S, QDR-365SBL) 120VAC* power cord supplied with lamp
AC/DC lamp (QDR-365MS, QDR-365MSBL) 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



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** Power cord with 12V DC adapter 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
- PS-200** Industrial power supply with cord set
- PS-300** In-line power supply with cord set
- W-6** Bench mount with pin
- WM-100** Wall mounting bracket
- UL-100** UV-A lens
- UVS-30** UV-absorbing spectacles

