

SPECTROLINE®

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 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.
- ▶ **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:

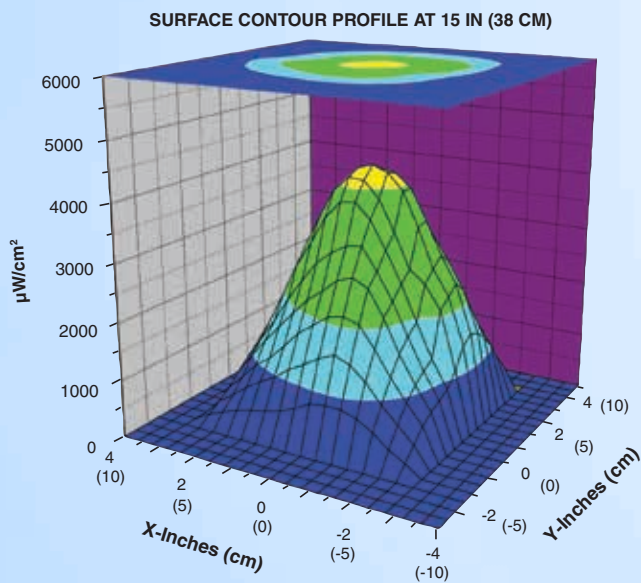
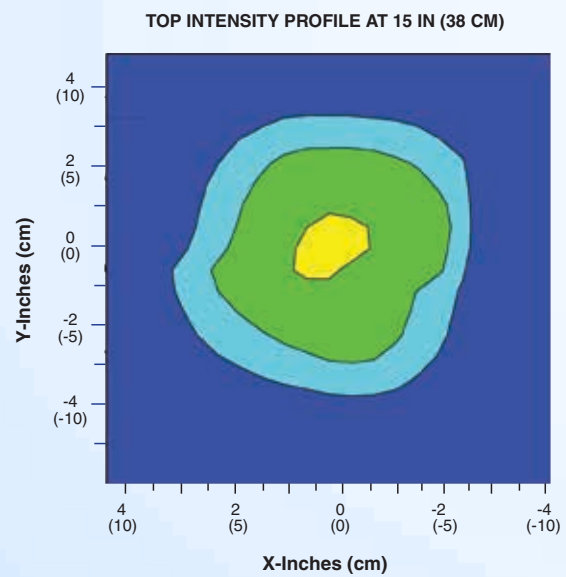
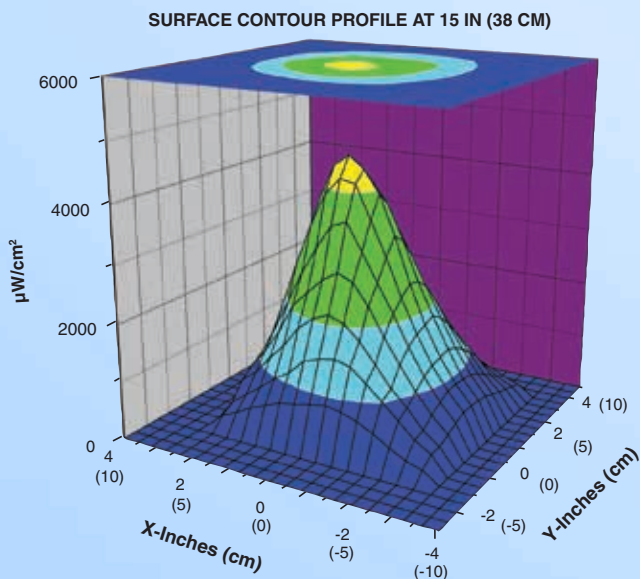
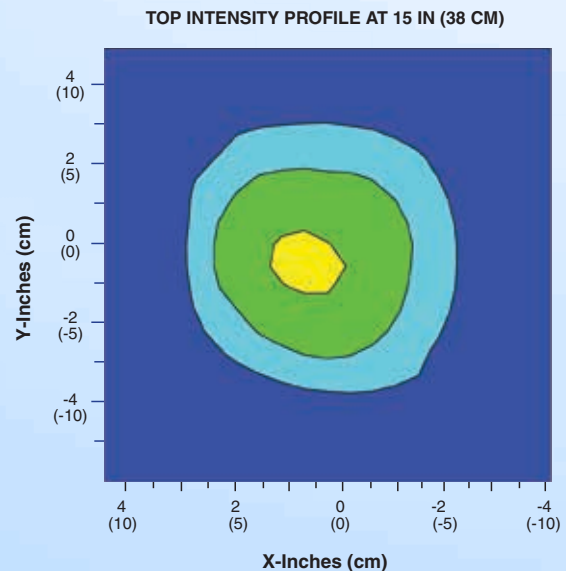
QUADRAN™ 365 MS-Series portable, battery-operated AC/DC lamp kits. Include QUADRAN™ 365 UV lamp, rechargeable NiMH battery pack, AC and DC cord sets, smart AC charger, UV-absorbing spectacles and soft carrying case.

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.

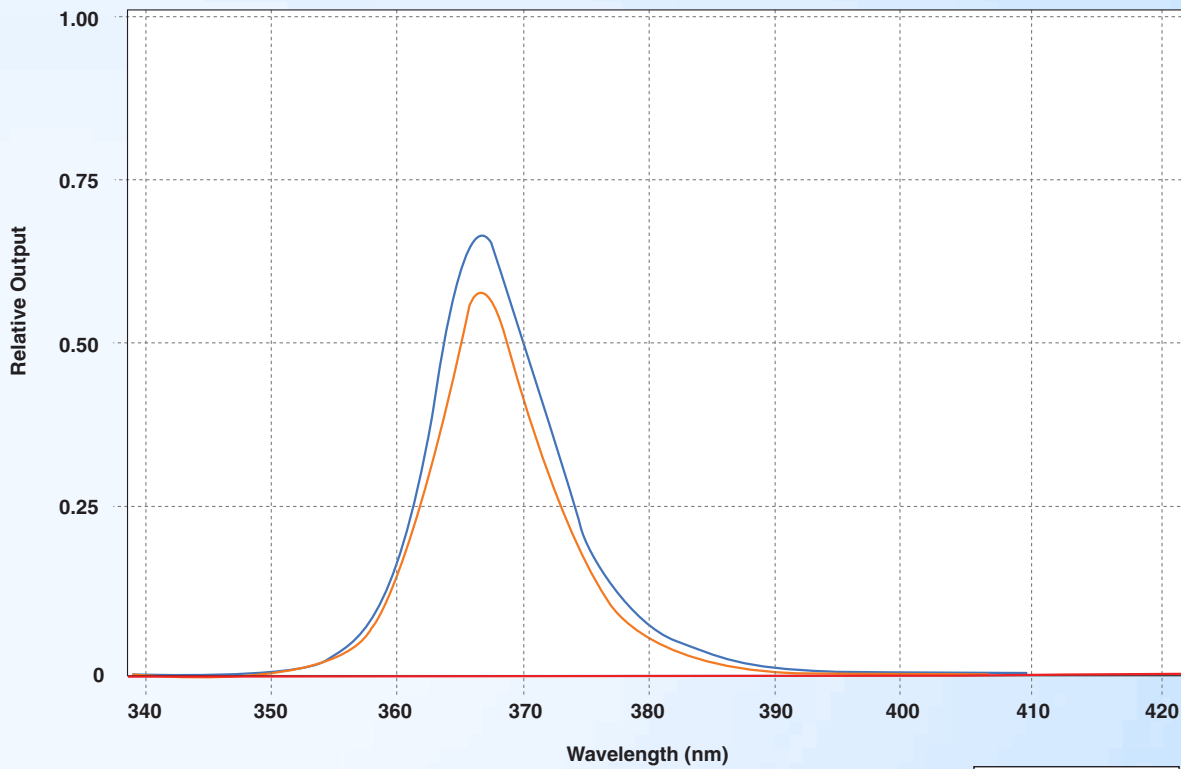
Both lamps are “tuned” to provide a nominal steady-state UV-A intensity of $4,500 \mu\text{W}/\text{cm}^2$ at 15 inches (38 cm). This addresses aerospace industry concerns.

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

UV-A Beam Profiles

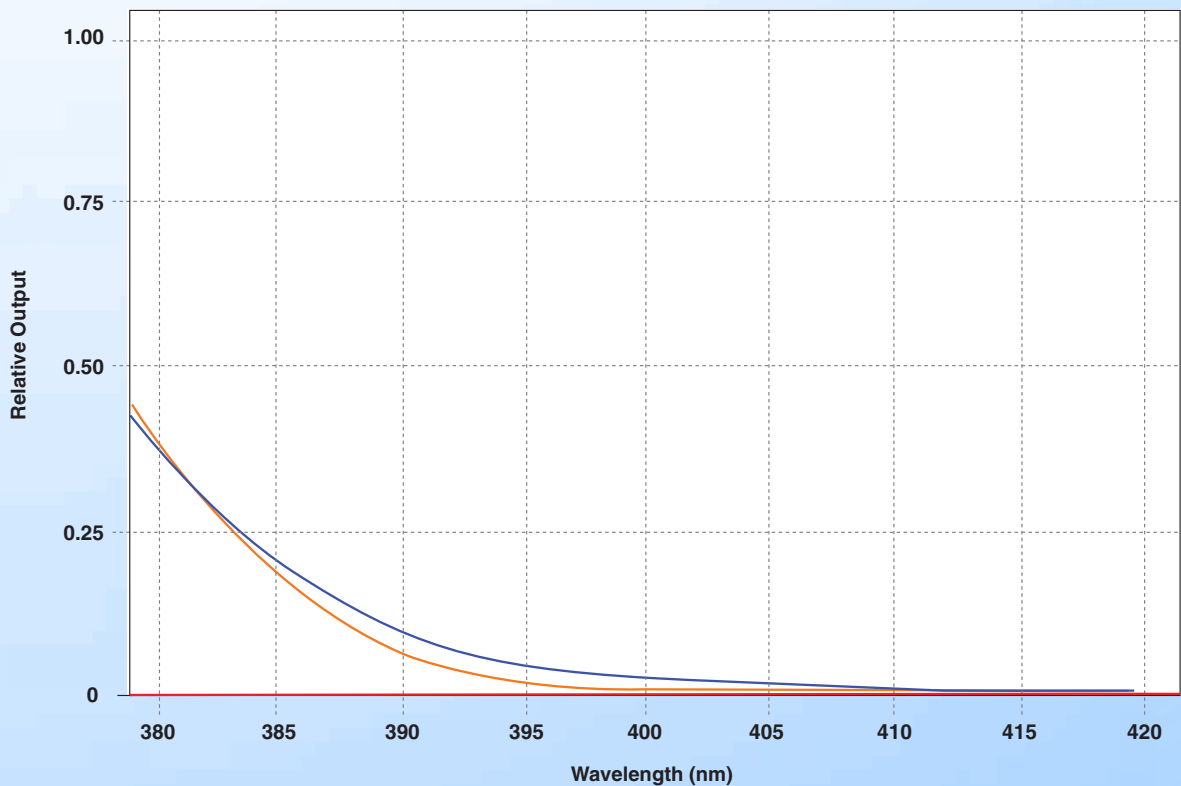


Normalized UV Irradiance



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	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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