QDR-365 S-Series

QUADRAN™365

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

Feature <u>four</u> ultra-hi-flux UV-A LEDs <u>plus</u> 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 in-line and hand-held applications. Two models are available, either with or without integral black light filters to meet <u>your</u> specific NDT inspection requirements.

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

- Choice of <u>two models</u>, both with a maximum standard UV-A intensity of **_4,500 μW/cm²_** 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 μW/cm²_**
- Low visible light emission — <u>less</u> than 1 foot-candle (11 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
- Long-lasting UV-A lenses reduce the rate of solarization
- 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).
- Meets ASTM UV-A intensity and wavelength specifications for LPT and MPT
- **_Certificate of compliance_** for <u>both</u> wavelength and output measurements supplied with every lamp
- UV-absorbing spectacles and soft carrying case included

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

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-365SA	4,500 µW/cm² maximum ②	< 1 foot-candle (11 lux)	5 in (13 cm)
QDR-365SBLA With integral black light filters	4,500 µW/cm² maximum ②	< 0.5 foot-candle (5 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-365SA, QDR-365SBLA) 120VAC* power cord supplied with lamp
AC/DC Lamp
(QDR-365MSA, QDR-365MSBLA) 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

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Also Available:

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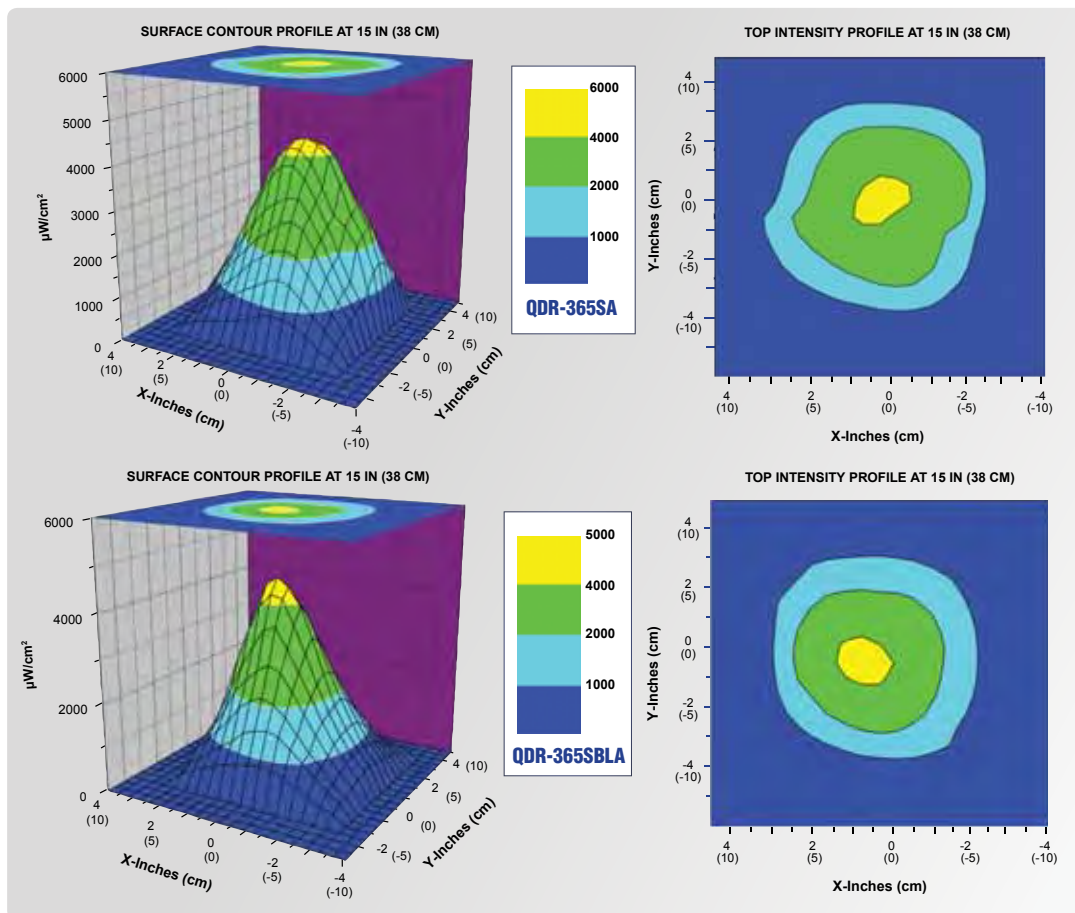
UV-A BEAM PROFILES

QUADRAN™ 365 S-Series lamps are available in two models (**QDR-365SA** and **QDR-365SBLA**).

Both are designed for NDT inspection applications requiring limited UV-A output. The **QDR-365SA** comes with a standard faceplate. The **QDR-365SBLA** is equipped with a faceplate containing integral black light filters that reduce the output of wavelengths longer than 400 nm.
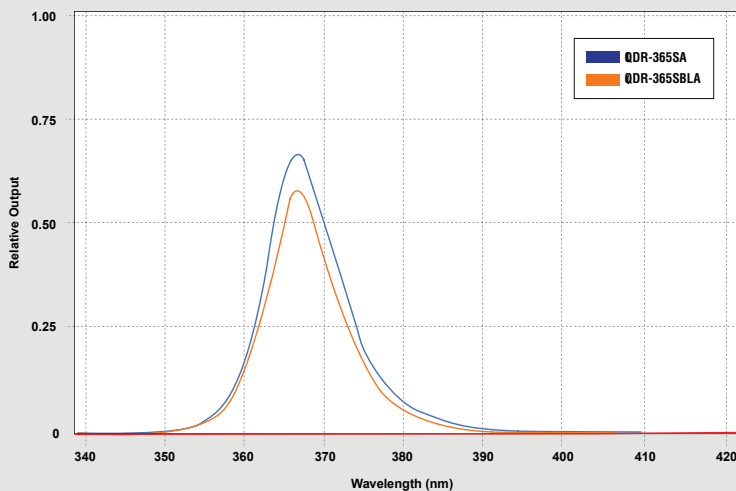
Both lamps are "tuned" to provide a nominal steady-state UV-A intensity of **_4,500 µW/cm²_** at 15 inches (38 cm). This addresses aerospace industry concerns.

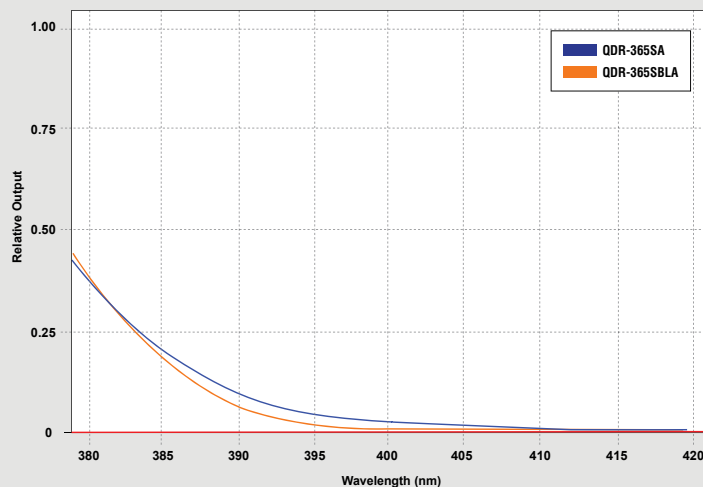In addition, both lamps have a high/low switch to control the white light LED output.

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)

QDR-365SA

TOP INTENSITY PROFILE AT 15 IN (38 CM)

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)

QDR-365SBLA

TOP INTENSITY PROFILE AT 15 IN (38 CM)

NORMALIZED UV IRRADIANCE

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

QDR-365SA
QDR-365SBLA

SELECT WAVELENGTHS WITH AND WITHOUT BLACK LIGHT FILTER

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.

QDR-365SA
QDR-365SBLA

All QUADRAN™ 365 S-Series lamps are ideal for performing _both_ in-line and hand-held inspections!

Each lamp can easily be attached to a variety of Spectroline® mounting accessories, as well as to our optional in-line power supplies.

QUADRAN™ 365 lamp shown with optional **PS-200A (left)** and **PS-300A (right)** power supplies.

Replacement Parts & Accessories for the QDR-365 & QDR-365 S-Series

129141	Standard, 8 foot (2.4 m) AC power cord		**FA-100**	Flexible arm
129145	Extra-long, 20 foot (6.1 m) AC power cord		**FP-550**	Rubber bumper with Borofloat® glass
129162	3.5 foot (1.1 m) DC power cord for "M" series lamps		**PSA-250A**	AC/DC power supply adapter for "M" series lamps
127922	Particulate filter assembly		**PS-200A**	Industrial power supply. Primary cord: 8 feet (2.4 m); secondary cord: 20 feet (6.1 m).
127944	Standard faceplate			
128094	Faceplate with integral black light filters		**PS-300A**	In-line power supply. Primary cord: 8 feet (2.4 m); secondary cord: 8 feet (2.4 m).
B-6	Bench mount			
BP-30	Battery pack with 12V rechargeable NiMH battery		**W-6**	Wall mount with pin
BR-150A	Smart AC charger		**WM-100**	Wall mounting bracket
CC-400	Soft carrying case		**UL-100**	UV-A Lens
			UVS-30	UV-absorbing spectacles

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