

**SPECTROLINE®**

# PowerMAX™ 365 Series

## ***UV-A LED Panel Flood Lamps Designed Specifically for NDT Professionals!***

PowerMAX™ 365 Series flood lamps feature a panel of 16 powerful UV-A (365 nm) LEDs specially engineered for non-destructive testing applications. These versatile, stationary light sources can be installed overhead or in-line, and can be ganged together to provide an even wider coverage area.

Available in four models to meet your specific inspection needs: high-intensity and standard-intensity versions, each with or without a black light filter. Ideal for NDT inspection booths, fluorescent penetrant and magnetic particle inspection, screening of fluorescent particles, wash station inspection and many other applications requiring maximum uniformity of UV-A coverage over a large area.

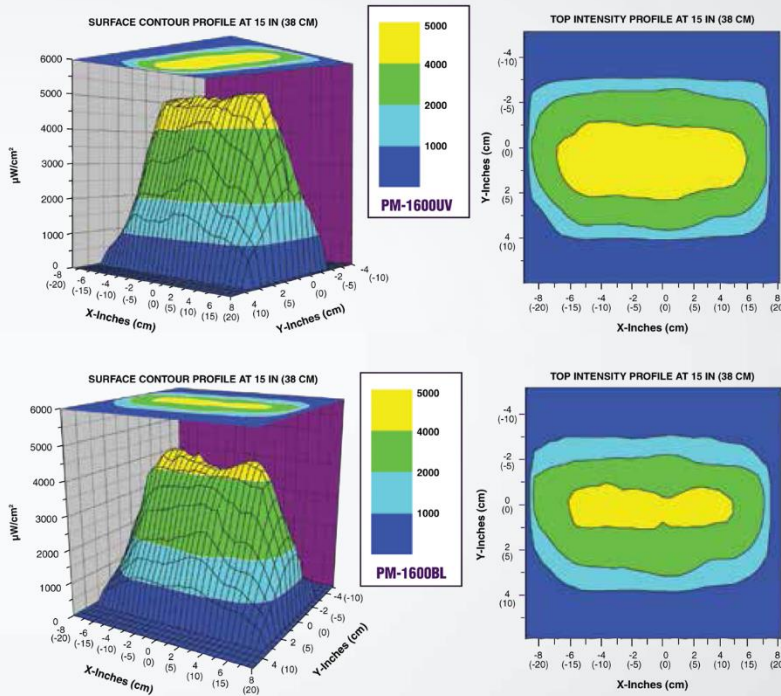


### **FEATURES:**

- ▶ Choice of two high-intensity models with a nominal steady-state UV-A intensity as high as  $8,000 \mu\text{W}/\text{cm}^2$  or two standard-intensity models with a maximum UV-A intensity of  $4,500 \mu\text{W}/\text{cm}^2$  at 15 inches (38 cm)
- ▶ Large coverage area of 15 inches by 6 inches (38 cm x 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)
- ▶ Easily mountable for overhead inspection or in-line applications
- ▶ Built-in fans keep LEDs cool to maintain optimum light output during extended use
- ▶ Meets ASTM UV-A intensity and wavelength specifications for FPI and MPI
- ▶ Customizable! Multiple lamp units can be “ganged” together longitudinally or back-to-back for a larger coverage area to meet your specific inspection requirements
- ▶ Both high- and standard-intensity versions available with or without black light filter
- ▶ *Certificate of compliance* for both UV-A output and wavelength measurements is supplied with each unit

# Standard-Intensity Models

## UV-A Beam Profile

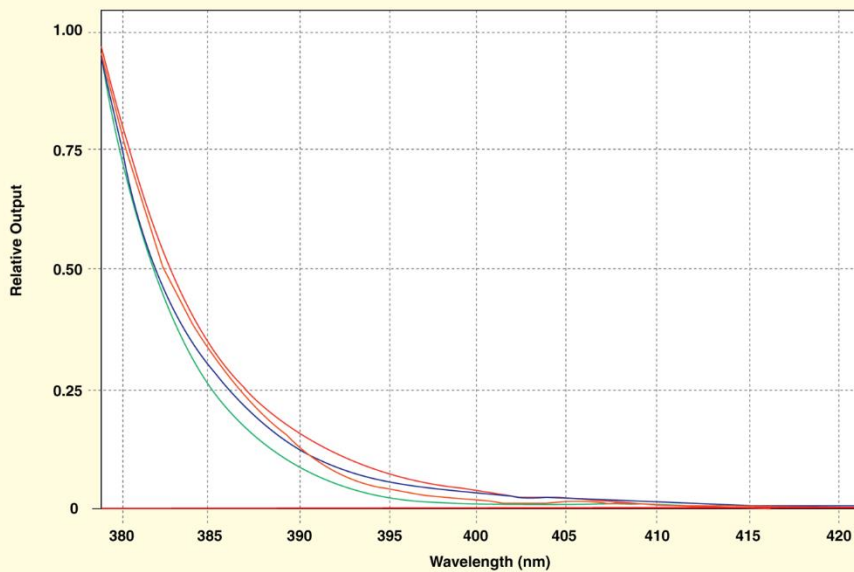


PowerMAX™ 365 Series UV-A LED panel flood lamps are also available in two standard-intensity models that are designed for NDT inspection applications requiring limited UV-A output. Both versions address aerospace industry concerns.

The PM-1600UV is equipped with a clear glass filter and provides a nominal steady-state UV-A intensity of 4,500  $\mu\text{W}/\text{cm}^2$  (maximum) at 15 inches (38 cm).

The PM-1600BL is equipped with a black light filter that reduces the output of wavelengths longer than 400 nm. It provides a nominal steady-state UV-A intensity of 4,000  $\mu\text{W}/\text{cm}^2$  (maximum) at 15 inches (38 cm).

## Wavelengths With and Without Black Light Filter



As the wavelength of the PowerMAX™ 365 moves into the visible light range, the black light filter significantly reduces the output of the lamp at 400 nm.



## Easily Expandable!



For applications requiring extremely large coverage areas, the PowerMAX™ 365 can be quickly ganged together longitudinally (top) or back-to-back (below) using customized, easy-to-install connecting plates and brackets.



## 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 2000 µW/cm²)
<b>PM-1600UVH</b> High intensity, with clear filter	8,000 µW/cm²	< 2 foot-candles (22 lux)	15 in by 6 in (38 cm x 15 cm)
<b>PM-1600BLH</b> High intensity, with black light filter	6,500 µW/cm²	< 2 foot-candles (22 lux)	15 in by 6 in (38 cm x 15 cm)
<b>PM-1600UV</b> Standard intensity, with clear filter	4,500 µW/cm² maximum ②	< 2 foot-candles (22 lux)	15 in by 6 in (38 cm x 15 cm)
<b>PM-1600BL</b> Standard intensity, with black light filter	4,000 µW/cm² maximum ②	< 2 foot-candles (22 lux)	15 in by 6 in (38 cm x 15 cm)

**Light Source:** 16 UV-A (365 nm) LEDs  
**Lamp Style:** Panel flood lamp  
**Dimensions:** 5.5 x 13.75 x 6 in (14 x 35 x 15 cm)  
**Weight:** 9 lb (4 kg)  
**Power Requirement:** AC power (main AC power cord supplied with the unit)  
 (Available in 120V, 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

<b>BF-365PM</b>	Black Light Filter Assembly
<b>CF-100</b>	Clear Glass Filter Assembly
<b>127918</b>	Particulate Air Filter
<b>127956</b>	End Cap
<b>CC-200</b>	Connector Cable for Ganging Lamps
<b>CP-100</b>	Top Connecting Plate for Ganging Lamps Longitudinally
<b>CP-200</b>	Top Connecting Plate for Ganging Lamps Back-to-Back (Two Required)
<b>CP-300</b>	Side Connecting Bracket for Ganging Lamps Longitudinally (Two Required)
<b>UL-100</b>	UV-A Lens
<b>UVF-80</b>	Face Shield, UV-Absorbing
<b>UVG-50</b>	Goggles, UV-Absorbing
<b>UVS-30</b>	Spectacles, UV-Absorbing