

OmniCure V3 UV LED Heads

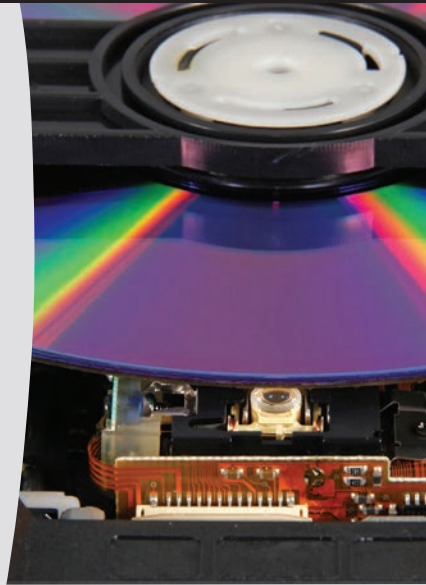
Class Leading Optical Performance & Flexibility for UV Spot Curing

Power: Offers class leading irradiance (W/cm^2) and optical power (W) at 365nm, 385nm, 395nm and 405nm.

Efficiency: More energy efficient, lower maintenance, longer service life for use in industrial manufacturing.

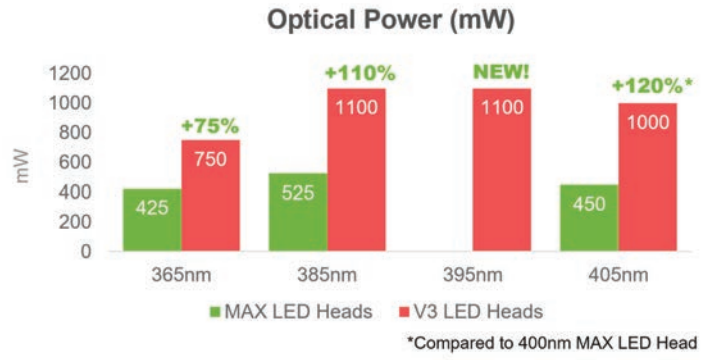
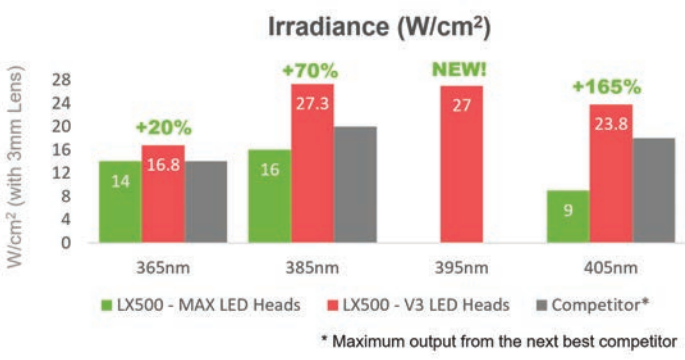
Consistency: Improved radiation distribution across beam cross section. Delivers consistent, controlled, and repeatable cure when paired with LX500 Controller.

Versatility: Wide range of cross compatible accessories including focusing lenses, adapters, and extension cables with customization support. Enables use in a variety of applications.



Leap into the Future of UV Curing with Omni

OmniCure® V3 UV LED Heads for LX500 Controller use next generation UV LEDs to deliver best-in-class optical performance. With higher power delivery, improved efficiency, enhanced beam profile and an available range of cross compatible accessories, V3 Heads have been optimized for use in a variety of industrial manufacturing applications. They are able to deliver higher dosage, distributed uniformly across the spot area for faster, more consistent cures with greater control and higher efficiency. V3 Heads offer superior thermal management to extract and dissipate internal heat generated by the LED, allowing enhanced air cooling efficiency in even the most challenging manufacturing environments.

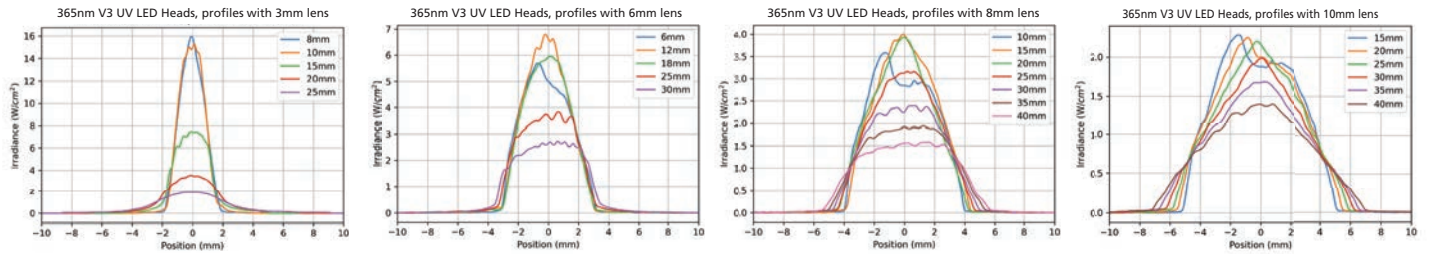


| FEATURES | BENEFITS |
|--|--|
| V3 UV LEDs provide high output <ul style="list-style-type: none"> • 16.5W/cm², 750mW (typical) at 365nm • 27.3W/cm², 1,100mW (typical) at 385nm • 27.0W/cm², 1,100mW (typical) at 395nm • 23.8W/cm², 1,000mW (typical) at 405nm | Reduces manufacturing costs with faster curing times and higher power efficiency. |
| Ultra-cool UV LED heads Patented Intelli-Lamp® technology for real-time monitoring of LED temperature and number of hours of operation. | Long UV LED head lifetime, improved power efficiency and low cost of ownership. Maximizes UV LED head power efficiency, long-term reliability and lifetime. |
| Locking HDMI Connector Identical form factor, Wavelength, Accessories compatibility compared to MAX UV LED Heads. | Designed for easy installation Mechanical and Optical Compatibility with your existing setup allows for seamless update to V3 Heads from MAX LED Heads. |

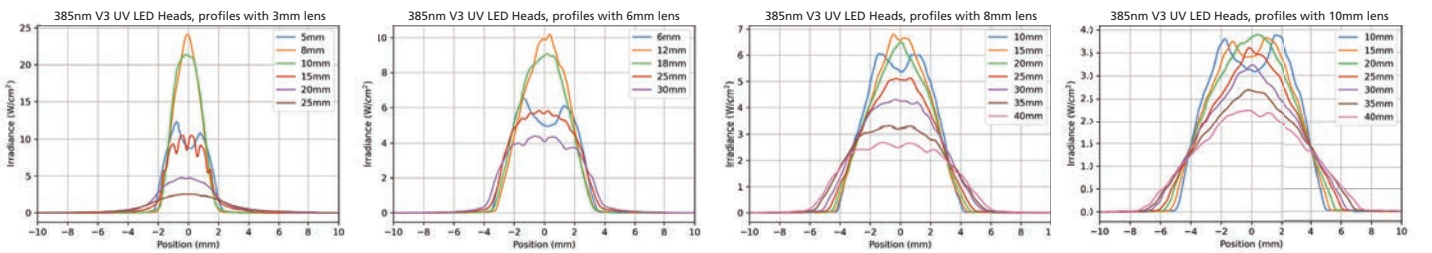


Beam Profiles

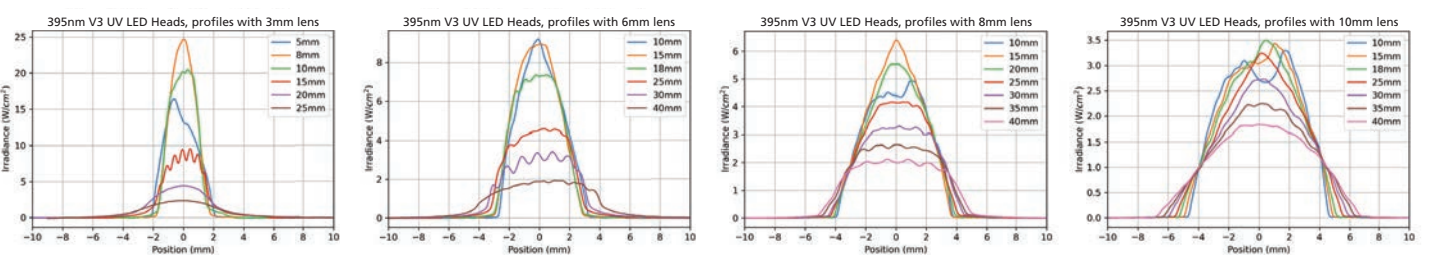
365nm



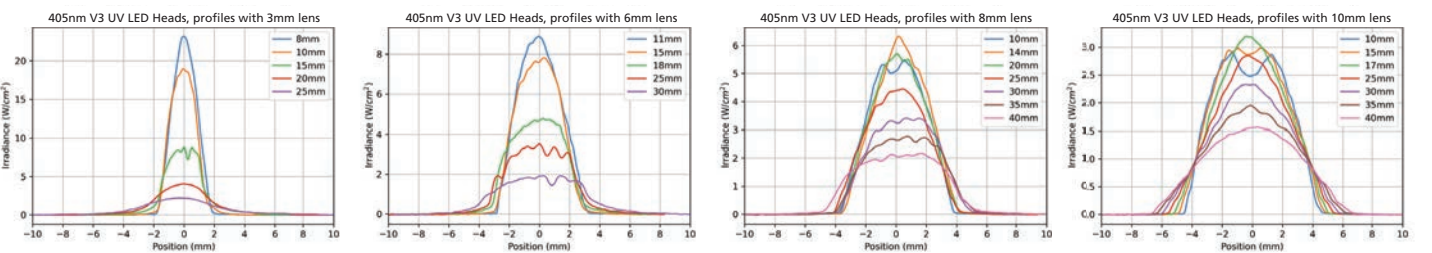
385nm



395nm



405nm



Compatibility

V3 UV LED Heads v/s MAX UV LED Heads

Optical Compatibility

V3 Heads offer 25% higher peak irradiance and 75% higher optical power at same working distance (365 nm with 8 mm Lens).

Wavelength Compatibility

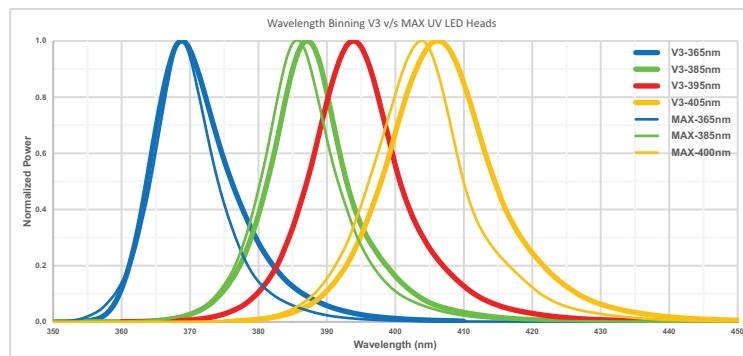
Comparable wavelength binning.

Mechanical Compatibility

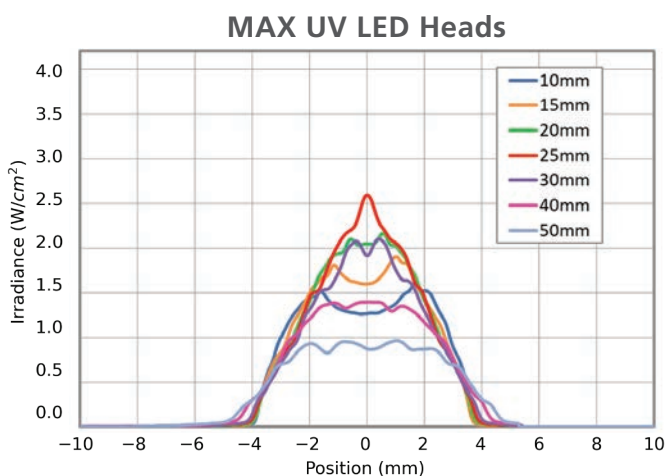
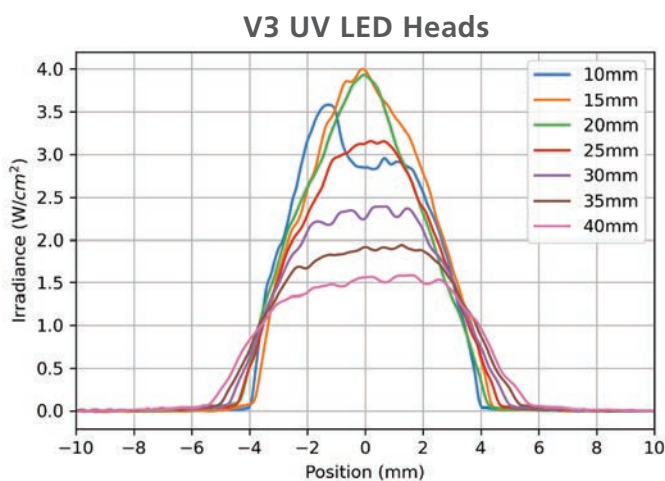
Same form factor as MAX Heads.

Controller Compatibility

Limited compatibility with older generation controller. Refer to LX500 instruction manual for more details.



Optical Output Comparison 365nm (8mm Lens)



GENERAL SPECIFICATIONS

| | |
|---|---|
| Typical Peak Irradiance | 16.8 (365nm) 27.3 (385nm) 27.0 (395nm) 23.8 (405nm) W/cm ² respectively with 3mm lens* |
| Optimal Working Distance (mm) (Lens Dia.(mm)) | 7.5 (3) 11.5 (6) 14 (8) 16.5 (10) 16.5 (12) |
| Typical LED Lifetime | 20,000 hours** |
| LED Temperature Monitoring | LED temperature monitoring & over temperature protection by patented Intelli-Lamp® technology |
| LED Lifetime Monitoring | LED number of hours of operation monitored by patented Intelli-Lamp technology |
| Cable Included with the Head | Length: 1 meter (extension cables also available: 1m, 3m and 10m) |
| Head Dimensions | Head outside diameter: 12mm Long head length: 125mm • Short head length: 55mm |
| Light Source | LED Class, Risk Group 3 |
| Certifications & Safety Standards | RoHS compliant and meets CE requirements |
| Warranty | Guarantee of 10,000 hours or 3 years, whichever comes first. |

* Typical Maximum Irradiance Variation: +/- 20% (as specified by the LED device manufacturer)

** With 100% initial output at 25°C temperature and secured to standard installation clamp. This data is for reference only.



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