OmniCure®
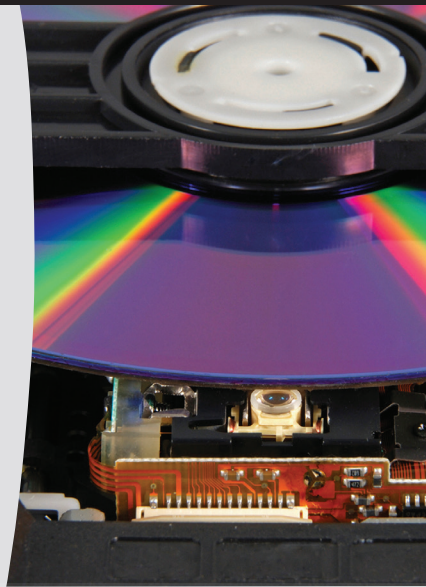## V Curing • In Control

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 maintainance, longer service life for use in industrial manufacturing.
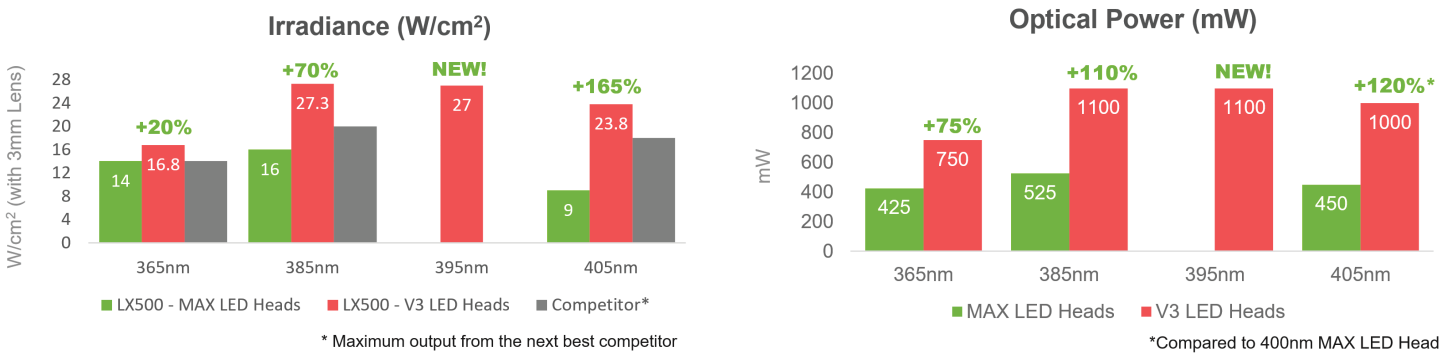
Consistency: Improved radiation distribution across beam cross section. Delivers consistent, controlled, and repeatable cure when paired with LX500 Controller.

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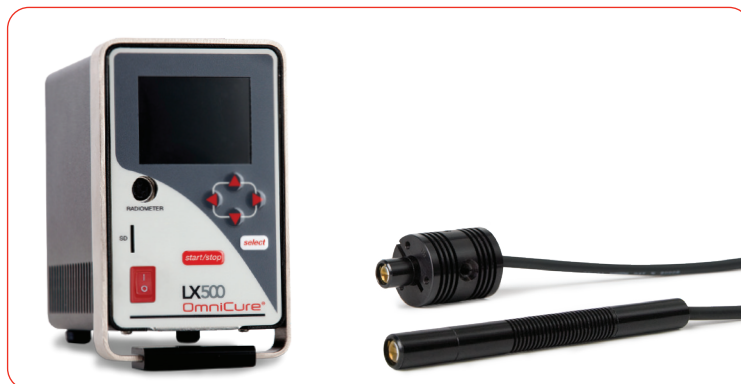
EXCELITAS
TECHNOLOGIES®

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 uniformaly 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.
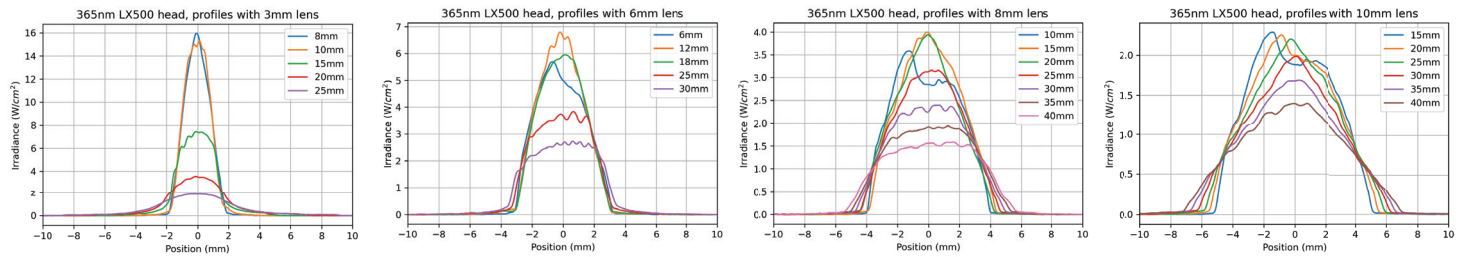
Irradiance (W/cm²)

	365nm	385nm	395nm	405nm
LX500 - MAX LED Heads	14	16		9
LX500 - V3 LED Heads	16.8 (+20%)	27.3 (+70%)	27 (NEW!)	23.8 (+165%)
Competitor*				

W/cm² (with 3mm Lens)

* Maximum output from the next best competitor

Optical Power (mW)

	365nm	385nm	395nm	405nm
MAX LED Heads	425	525		450
V3 LED Heads	750 (+75%)	1100 (+110%)	1100 (NEW!)	1000 (+120%*)

mW

*Compared to 400nm MAX LED Head

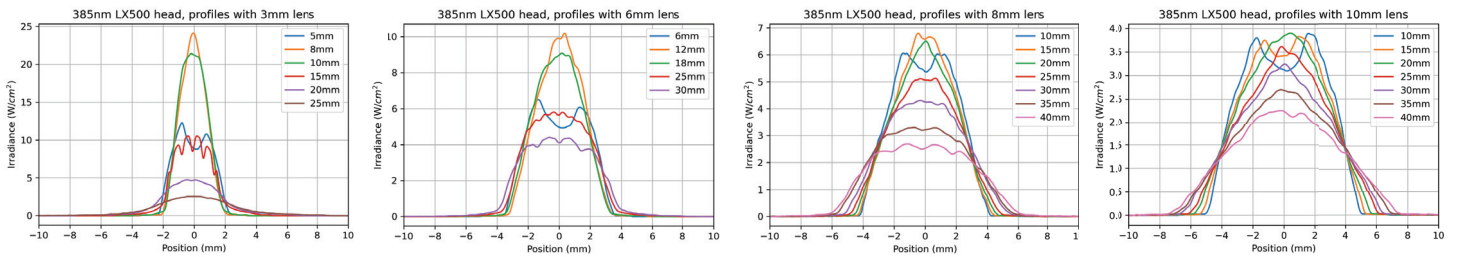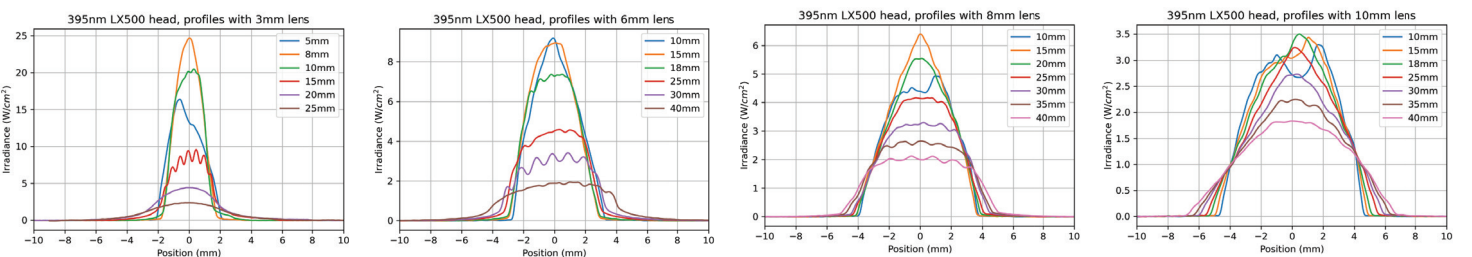| FEATURES	BENEFITS
V3 UV LEDs provide high output • 16.5W/cm², 750mW (typical) at 365nm • 27.3W/cm², 1,100mW (typical) at 385nm • 27.0W/cm², 1,100mW (typical) at 395nm • 23.8W/cm², 1,000mW (typical) at 405nm	Reduces manufacturing costs with faster curing times and higher power efficiency.
Ultra-cool UV LED heads	Long UV LED head lifetime, improved power efficiency and low cost of ownership.
Patented Intelli-Lamp® technology for real-time monitoring of LED temperature and number of hours of operation.	Maximizes UV LED head power efficiency, long-term reliability and lifetime.
Locking HDMI Connector	Designed for easy installation
Identical form factor, Wavelength, Accessories compatibility compared to MAX UV LED Heads.	Mechanical and Optical Compatibility with your existing setup alows for seamless update to V3 Heads from MAX LED Heads.

Beam Profiles

365nm

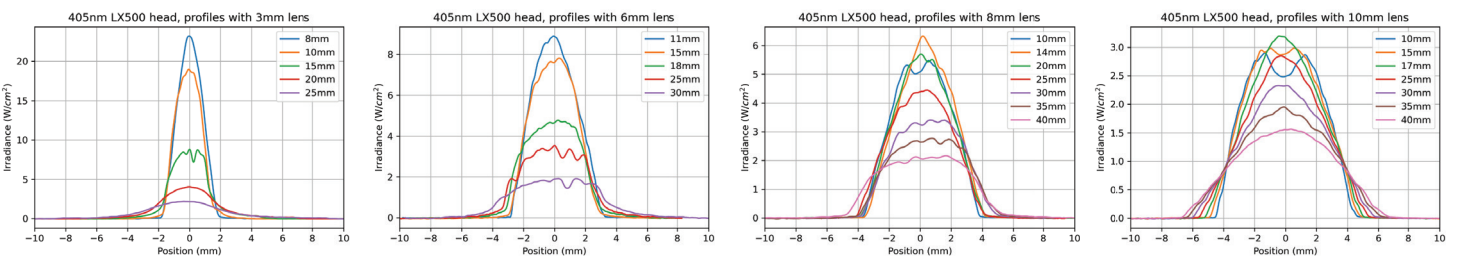

385nm

395nm

405nm

Compatibility
V3 UV LED Heads v/s MAX UV LED Heads

Optical Compatibilty
V3 Heads offer 25% higher peak irradiance and 75% higher optical power at same working distance (365 nm with 8 mm Lens).
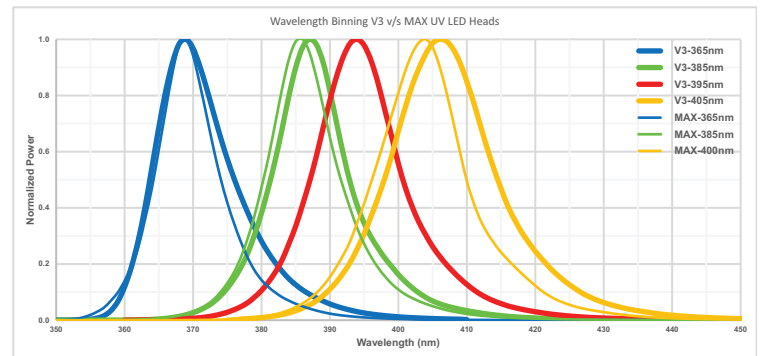
Wavelength Compatibility
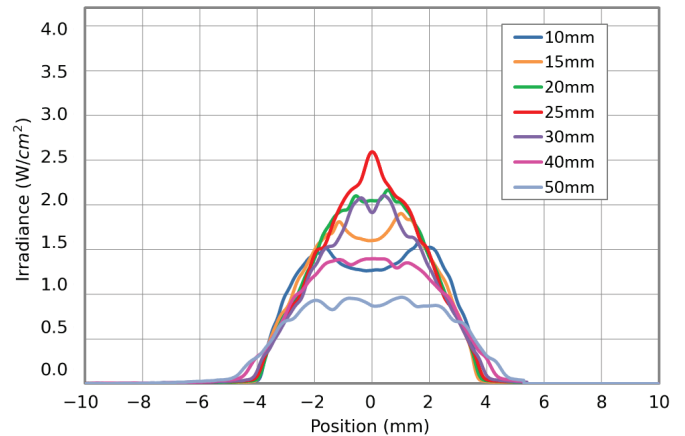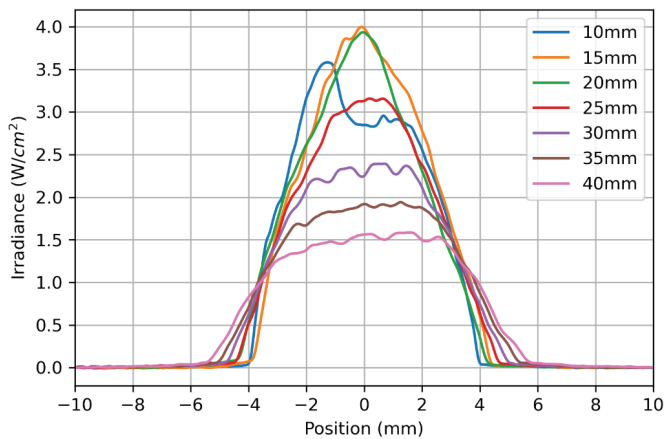Comparable wavelength binning.

Mechanical Compatibility
Same form factor as MAX Heads.

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

Wavelength Binning V3 v/s MAX UV LED Heads

Optical Output Comparison 365nm (8mm Lens)

GENERAL SPECIFICATIONS

Typical Peak Irradiance	16.8 (365nm) | 27.3 (385nm) | 27.0 (395nm) | 23.8 (405nm) W/cm² 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.

EXCELITAS
TECHNOLOGIES®

www.excelitas.com
omnicure@excelitas.com

2260 Argentia Road
Mississauga, Ontario
L5N 6H7 CANADA

Telephone: +1 905 821-2600
Toll Free (USA and CAN): +1 800 668-8752
Fax: +1 905 821-2055