

### Power, Reliability, Performance

# LED Light Curing Systems





Henkel offers innovative LOCTITE® LED light curing solutions that provide high power, portability, continuous duty, and long life. A wide range of systems are available – hand held point, spot wand, flood, and line array systems – offering maximum flexibility for any application. These light sources are optimized for curing our extensive line of UV/Vis light curing adhesive products to provide the customer with the optimal solution for their process needs.

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### ADVANTAGES OF LED TECHNOLOGY

- » Long Life up to 20,000 hours of operation (10x longer than typical UV bulbs) with minimal decay over time.
- » Instant On/Off no warm-up like traditional UV systems.
- » Zero infrared emissions, reducing part heating (warping) to an absolute minimum
- » 100% of LED light output is within the usable curing spectrum
- » Environmental Benefit (no mercury)
- » Low Maintenance Cost (no replacement bulbs)
- » Low Energy Consumption
- » Low Cost of Ownership









# LOCTITE<sup>®</sup> CL32 LED Spot

The LOCTITE<sup>®</sup> CL32 LED Spot is a cost effective, high powered, portable LED light source that offers a high level of flexibility for all your UV or visible light curing needs. The light weight compact design helps minimize operator fatigue, while its small size and long focus length make it perfect for applications in crowded areas and hard to reach bond areas. Usable as hand held or stationary mount, this system is perfect for prototyping, scale up, or full production environments.



### **PRODUCT FEATURES**

- » High intensity up to 3 W/cm<sup>2</sup> (@ 8-12mm)
- » Light weight compact design
- » Robust, ergonomic housing
- » 365nm and 405nm LED heads
- » Battery or line powered (3 hr battery life)
- » Hand held or stationary mount
- » Up to 100% duty cycle (with line power)
- » Integrated timer

### **TYPICAL INTENSITY PROFILE**





405nm Spot: **2182207** 365nm Spot: **2182210** Mounting Kit: **2182206** 

#### RADIAL DISTANCE FROM CENTER POINT (MM)

# LOCTITE<sup>®</sup> EQ CL28 LED CureJet<sup>™</sup>

The LOCTITE<sup>®</sup> EQ CL28 LED Spot system is one of our highest intensity LED spot curing devices available. With Intensities up to 27 W/cm2, this system delivers extremely high power for all of your fast curing needs. The innovative design combines both high intensity with a significantly wider cure area than most spot system for maximum performance.

### **PRODUCT FEATURES**

- » High Intensity up to 27 W/cm<sup>2</sup>
- » Wide spot cure area up to 20mm
- » Multiple wavelengths 380nm, and 405nm
- » Single or quad controller options
- » Stackable LED heads with 25mm center to center spacing
- » Intensity adjustment (with quad controller)
- » Up to 2.5 times improvement in cure through depth

#### **QUAD CONTROLLER FEATURES**

- » Controls Up to 4 channels independently, simultaneously, or in sequence
- » Intensity adjustment from 1 to 100%
- » Output current and temperature of each channel are continuously monitored to maintain consistent intensity
- » Up to 10 programs can be stored in memory
- » Self-diagnosis with warning messages and front panel indicator lights.

405nm Spot: 380nm Spot: Single Controller: Quad Controller: 1m Cable: 3m Cable:

Item Numbers

#### **TYPICAL INTENSITY PROFILES**

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**RADIAL DISTANCE FROM CENTER POINT (MM)** 

# LOCTITE<sup>®</sup> EQ CL10 LED Spot System

The LOCTITE<sup>®</sup> EQ CL10 system is one of Henkel's most cost-effective and versatile LED systems available. Offered in both a single and quad controller to provide maximum flexibility. It can be used in manual work stations as well as automated production lines.

#### **PRODUCT FEATURES**

- » Small profile LED heads for tight locations
- » 100% Duty Cycle
- » 365 nm and 405 nm wavelengths
- » Intensity Up to 2 W/cm<sup>2</sup>
- » 6 mm and 10 mm spot size
- » Single Controller with time and intensity adjustment
- » 4 Channel Quad controller with 5 operating modes and 10-step programming capability

#### Item Numbers

 EQ CL10 Single Controller: 1514636
 365 nm LED Head: 1538499

 EQ CL10 Quad Controller: 1514634
 405 nm LED Head: 1746633





Radial Distance from Center Point (mm)

## LOCTITE<sup>®</sup> EQ CL25 LED Spot System

The LOCTITE<sup>®</sup> EQ CL25 is one of the highest intensity LED systems available. With outupt as high as 20 W/cm<sup>2</sup> and a compact multi-channel design, this system provides a high level of both flexibility and performance.

#### **PRODUCT FEATURES**

- » Intensity up to 20 W/cm<sup>2</sup>
- » Small profile LED heads for tight, hard to reach locations
- » 100% duty cycle
- » 3 mm, 6 mm, and 10 mm spot sizes
- » 365 nm and 405 nm
- wavelengths
- » 4 Channel Controller with:
   » Multi-step programming capability and storage
  - » Intensity adjustment
  - » LED temperature monitoring



(lenses and cables sold separately)

### TYPICAL INTENSITY PROFILE



EQ CL25 UV Intensity Profile (365 nm w/3 mm Lens)

RADIAL DISTANCE FROM CENTER POINT (MM)

# LOCTITE<sup>®</sup> CL30 LED Flood System

The LOCTITE<sup>®</sup> CL30 LED Flood system is a high intensity flood system specifically designed to cure LOCTITE<sup>®</sup> UV and visible light cure adhesive. The large area flood allows for easy curing of large part assemblies and the LED heads can be stacked in both the X and Y directions further expanding the curing area if needed. The system can be easily integrated into either manual/stationary applications or fully automated processes.

#### **PRODUCT FEATURES**

» 100% Duty Cycle

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- » 100 mm x 100 mm cure area
- » Up to 1.5 W/cm<sup>2</sup> intensity (at 50 mm)
- » Optimal Curing Distance 50 mm
- » 365, 380 and 405 nm wavelengths.
- » LED Floods are stackable in both X and Y directions.
- » Controller with digital timer and indicator lights for status, over temperature, and error conditions.
- » Compact footprint with integrated air cooling.



#### **TYPICAL INTENSITY PROFILE**

CL30 Intensity Profile @50mm working distance



## LOCTITE<sup>®</sup> CL34 LED Line Array System

LOCTITE<sup>®</sup> CL34 LED line arrays offer adhesive curing solutions for high speed production lines while requiring minimal space intrusion due to the small and narrow profile of the LED head. The system features a 4-channel controller with independent timing operation for each channel.

### **PRODUCT FEATURES**

- » 100% Duty Cycle
- » Small profile LED heads
- » Stackable side by side
- » Up to 2.5 W/cm2 intensity
- » 5 mm x 80 mm Cure Area
- » 365 nm and 405 nm wavelengths

# Item Numbers

LED Line Array Controller: **1447728** LED Line Array 365 nm: **2210212** LED Line Array 405 nm: **2209919** 





#### RADIAL DISTANCE FROM CENTER POINT (MM)

### LOCTITE

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