

XENON RC-900

High-Power Modular UV Curing System

Delivering more curing power for greater productivity.

XENON has raised the bar for curing performance with the RC-900 High-Power Modular UV Curing System. The RC-900 leapfrogs the industry in power and capability, enabling faster, more efficient and cost-effective curing in the most challenging applications such as Blu-ray™ disc, high-density semiconductor arrays and many other uses.



More power = More productivity

The XENON RC-900 UV Curing System features increased power and energy output driven by a new 6 kilowatt power supply, resulting in faster curing through a faster pulse rate. Manufacturers benefit from greater productivity and higher throughput.

In addition, the RC-900 utilizes XENON's Pulsed Light technology – rapid pulses of high-energy light that cure quickly and deliver important competitive advantages:

- Precision control of the UV pulses allows delivery of a precise, predetermined, consistent energy level with every curing cycle. You achieve better results and can match the RC-900 to your application to a degree that is simply not possible with most other curing systems.
- The RC-900's on/off technology uses much less energy than continuous mercury-based systems, allowing you to achieve faster curing while keeping energy use low.

If you want faster, more cost-effective curing – and the improved manufacturing productivity that goes with it – contact XENON today to find out more about the XENON RC-900.

Case Study Snapshot

Challenge: A leading manufacturer of optical discs wanted to reduce their overall curing time to improve their manufacturing productivity. Curing had become a bottleneck to productivity.

Solution: They incorporated the XENON RC-900 into their manufacturing operation. XENON worked with the company to customize the solution to their needs.

Result: The company reduced curing time by over 20%, dramatically increasing overall manufacturing productivity.



Description

The RC-900 UV Curing System is comprised of a controller, power supply, lamp housing and lamp. The prime measure of the unit's performance is the faster pulse rate operation that gives the RC-900 the ability to deliver 207 joules/pulse at up to 25 pulses/second. A new 6 kilowatt power supply (model PS-916) powers this higher pulse rate. Users of the RC-800 Series can upgrade to the RC-900 – all interfacing controls for both families are the same.

Choose your system

The RC-900 is available in either a single-lamp or dual-lamp system. Dual-lamp systems are used to provide more curing options, such as multiple curing stations in batch processing applications. Our engineers can help you decide which system is right for your application:

- The RC-900 single-lamp system is comprised of a controller, a 6 kilowatt power supply and a single-lamp housing. Available with the LH-910 spiral lamp.
- The RC-900 dual-lamp system provides two lamps powered by a single power supply and controller. Each lamp is individually sequenced by the controller's high speed logic, making multi-lamp operation simple and cost-effective. Available with two LH-910 spiral lamps.
- The RC-900 InterWeave™ system provides the ultimate dual-lamp technology. InterWeave flashes both lamps at the full programmed frequency, delivering full power to each lamp from a single power supply. Each 30" lamp is flashed at a 100 pulses/second rate and 19.4 joules/pulse resulting in an overall 200 pulses/second rate. Available with two LH-870 30" linear lamps.

XENON offers application assistance from our team of experts. We'll work with you on incorporating the RC-900 into your manufacturing operations – so you can enjoy the benefits of rapid, energy efficient, highly-productive cool UV curing.

Features

- Lower power consumption
- Low substrate heat
- High peak power – deep penetration
- Modular – ease of installation
- Many options – ease of matching application
- Lamp instant ON/OFF – no warm-up time
- High throughput with ultra short cures
- Single- and dual-lamp configurations

Applications

- Optical disc – bonding, top layer and hard coat curing
- Medical device manufacturing
- Plastic – bonding without damage
- Pharmaceutical packaging
- Rapid low heat curing of UV adhesives, coatings, inks and paints



The spiral lamp handles a surface area of up to 140 mm diameter, and is used for curing Blu-ray™ disc, lens coatings, potting, as well as other applications.



The 30" linear lamp (for the InterWeave dual lamp system) is ideal where a wide curing surface is involved, such as wood coating, web printing, and many other applications.

Call us with your demanding application, and see what our engineers can do.



The Pulsed Light Experts

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Talk to XENON today

XENON Corporation is a pioneer in Pulsed Light technology. Our unique, patented lamps are used in a wide range of industries and applications. XENON's applications engineers are available to help you customize a curing solution for you. To learn more, visit www.xenoncorp.com.

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