

Upgrading to the RC-800 Series

Xenon Corporation's RC-742 and RC-1002 pulsed UV light systems have been assisting DVD process engineers achieve fast cure time with mercury-free pulsed UV light and low substrate temperatures.

Emerging DVD formats, such as HD-DVD (HD) and Blu-ray Disc (BD), increase content on each disc resulting in tightened manufacturing tolerances while market forces limit increases in cost. To provide lower operating costs, Xenon is introducing the RC-800 Series of highly flexible, robust, modular systems. These new systems are designed to replace the RC-742 and RC-1002 systems by providing:

Robust Design

- √ Improved Lamp Housing thermal management extends lamp life by 20%
- √ High noise immunity control logic reduces sensitivity to external electrical interference
- √ HVPS turn-on delay eliminates damage from mains line transient conditions
- √ Improved HV charge capacitor design extends operating life
- √ Improved lamp trigger design extends operating life
- √ Clamping diodes in controller offer protection from HVPS failure
- √ Retainer clip insures lamp is firmly seated under conditions of vibration and high air flow

Ease of Field Maintenance

- √ Lamp Housing reflector quickly replaced during scheduled field maintenance
- √ All control components contained on single board for quick field replacement
- √ Spring clamps are integrated with lamp insuring new contacts are installed with new lamp

Operator Safety

- √ High voltage charge indicator light on controller alerts personnel when servicing controller
- √ Discharge circuit insures capacitor is fully discharged in event main discharge circuit fails

Ease of Upgrade

- √ System I/O signals, connector and connector pin assignments match RC-742 I/O
- √ Lamp Housing cables more flexible making it easier to install in limited space
- √ Upgrading to 2-lamp system requires additional lamp housing and jumper pin change
- √ Controller mounting hole pattern matches the RC-742 Controller
- √ Lamp housing mounting hole pattern matches the RC-742 Lamp Housing
- √ All hardware mounting is metric meeting international standards

Added Advantages when upgrading from RC-1002

- √ System I/O signals, connector and connector pin assignments match RC-1002 I/O
- √ Switching module not required resulting in a 50% foot-print reduction

The RC-800 Series offers process engineers the most advanced UV curing systems matching the need for process flexibility with extended operating life. Top-down and bottom up curing configurations provide higher throughput with low substrate temperature.

