



# MonoCure™ Ultraviolet System

## More Intense UV With Less Heat

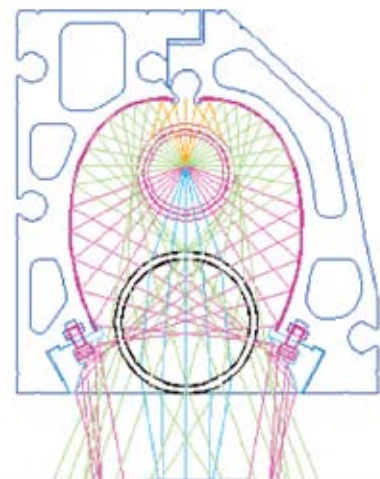
The NEW compact **Nordson MonoCure™** Lamphead combines a unique primary and secondary UV reflector design necessary for fast, thorough curing with innovative heat-reduction technology. The result is high UV output that provides superior performance on the most challenging heat sensitive substrates.



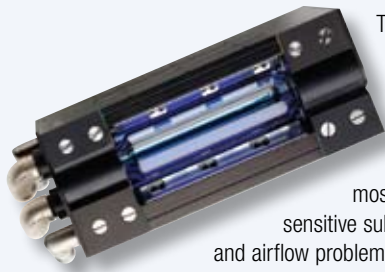
## THE MONOCURE LAMPHEAD: Incorporating Technology to Optimize UV Output

The MonoCure system provides an intense, focused band of UV energy to the substrate. The innovative design incorporates several technologies to deliver high intensity UV without the high-pressure airflows or infrared energy that is detrimental to many substrates.

- **Dichroic reflectors** reflect useful UV energy while absorbing harmful infrared energy.
- **Secondary external reflectors** refocus UV energy to maximize intensity on the substrate. This patented secondary reflector design provides a strong 2" band of UV energy below the lamphead.
- **Water-cooled lamphead and filtering tube** absorbs direct infrared energy and keeps it from adversely affecting heat-sensitive substrate. The filter tube does not heat up like conventional quartz plates that are normally designed into other lampheads. This quartz tube stays cool with the high velocity water circulating within.
- **Shutter-less design** provides the dependability of no moving parts. With the use of Nordson's digital power supply, the output power can be reduced to the point that heat is no longer a factor.
- **No ozone is produced** outside the lamphead, eliminating the need for costly air extraction systems saving thousands of dollars on installation and operation.
- **Elimination of cooling air** keeps the lamps and reflectors cleaner for reduced maintenance, longer service life and optimal UV performance. This also eliminates the need for noisy cooling blowers and the possibility of contamination to the end product. The unique design also eliminates the high velocity air blowing directly onto the substrates thus eliminating possible contamination and movement of fixtured parts.
- **5% Standby Power** available when driven by Nordson's solid-state Digital Power Supply.

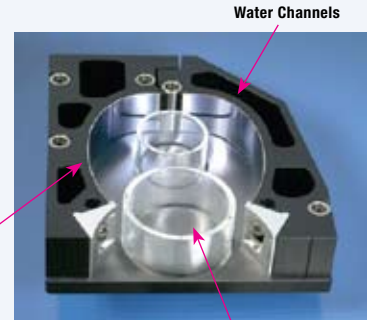


**When Nordson's MonoCure System is compared to a conventional electrode-style lamphead, MonoCure's advanced design and superior performance make it the obvious choice for most wide-width industrial applications.**



The MonoCure Lamphead is water-cooled, with only low-pressure airflow cooling the lamp. The lamphead does not require large volumes of air movement for cooling.

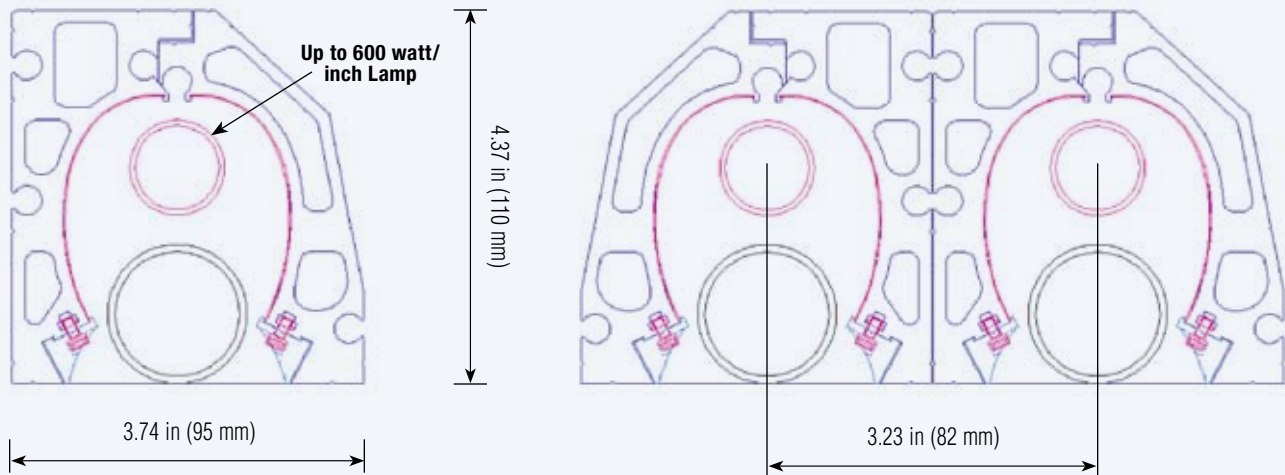
Conventional electrode systems provide no protection to the substrate from the harmful infrared energy emitted by the ultraviolet lamp. MonoCure's water filtering tube removes most of the harmful infrared energy that is detrimental to heat-sensitive substrates without reducing long wave UV. To overcome IR and airflow problems in conventional electrode systems, many manufacturers incorporate a quartz plate. This can heat up, get dirty or solarize, and is not nearly as effective as the MonoCure's water-cooled filtering tube.



The MonoCure also incorporates a patented secondary reflector technology to redirect UV energy back to center. MonoCure's water-cooled lamphead and filtering tube are cool enough to allow the lamphead to be placed close, sometimes within 2 mm to the substrate, minimizing escaping light and maximizing UV intensity. In many cases simplifying or eliminating expensive light shielding and air extraction hoods.

**MonoCure™ . It's about time™ .**

- Up to 600 watt/in (250 watt/cm)
- Narrow band of intense UV - deep cure
- No air movement to disturb coating or substrate
- No direct IR radiation
- No heat radiated from Lamphead
- No air handling required



Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.



*For more information, talk with your Nordson representative or contact your Nordson regional headquarters office.*

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