UV150 UV LED Curing System

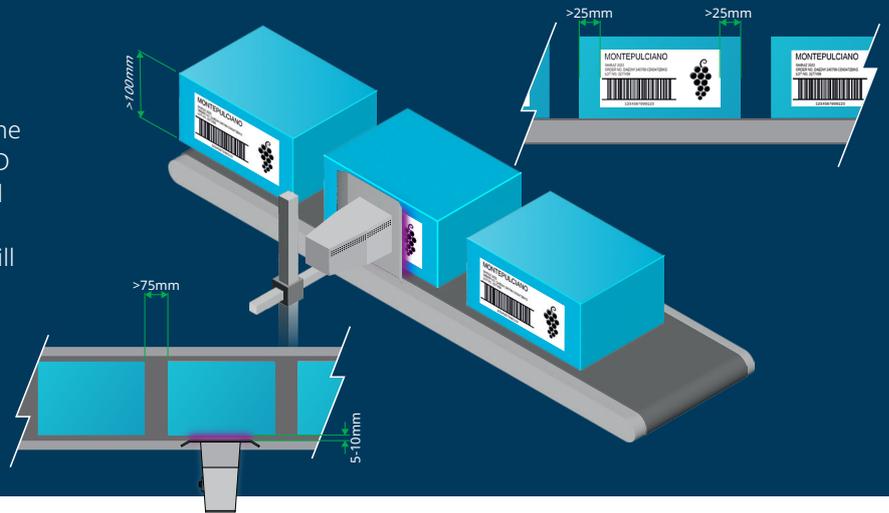## Simple, Safe & Instantaneous Curing of UV Inks

The **UV150** is a UV LED lamp system for the instantaneous curing of UV ink, immediately after printing. It is designed specifically for box coding, shelf-ready and secondary packaging applications, and is well suited for use in the food, beverage and pharmaceutical manufacturing sectors.

Its hygiene-conscious, innovative design maintains a high level of safety, facilitating simple installation, setup and operation – without the need for additional guarding.

For the lamp to be on, it must be fully covered by the box, and in the event of a box stopping in front of the lamp, the system cuts power to the lamp and raises an alert. Unexpected changes in power or temperature are continuously monitored by the lamp's control system. In short, the system is self-contained, simple, and safe.

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The adjacent graphic shows the criteria for the simple and safe installation of the **UV150** LED lamp system, without the need for additional parts, accessories or modifications. Where these criteria are not met, the **UV150** may still offer a solution, and applications should be discussed with Domino.

Technical Specification
UV150

Lamp	
Irradiance power	Nominal 12W/cm2 @5mm Set to 40%, 75% or 100% (application dependant) during installation
Wavelength	395nm
LED array dimensions	73.0mm x 29.0mm
Cooling	Integral fan cooling
Mounting position and orientation	Lamp position: parallel to the surface onto which the ink is to be cured, and with its front face 5-10mm from the surface onto which the ink is to be cured
Product detect sensors	Two integral sensors, configured for the direction of product movement. Typically installed at opposite, diagonal corners of lamp.
Lamp Life	20,000 hours, with power degradation <10% after 10,000 hours

System	
Dimensions	Lamp W 130.0mm / D 233.5mm / H 123.9mm Lamp Guard W 253.5mm / H 250.0mm Controller W 480.0mm x D 151.2mm x H 380.0mm
Electrical supply	Input 100-240Vac, 50-60Hz, 6Amps
Operating temperature	5-40 °C
Operating relative humidity	10-85% RH
Casing material	Stainless steel
Protection print head and inkbase	IP4X (do not wash down)
Line speeds *	Typically 5m/min. to 70m/min.

* The UV150 lamp can be used to cure print areas up to 73mm high. For print heights of 29mm or less, the lamp can be turned through 90 degrees to increase the maximum linear speeds at which products can be effectively cured. The system is equally effective curing codes printed onto the side of a box (horizontal operation) or those printed onto the top surface of a box (vertical operation).