



Article

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The versatility of the UniMulti

Today, there are several use cases for lamp driver technology, from UV Disinfection to curing applications. Likewise, there are numerous customer demands that must be met for lamp drivers to suit their specific application needs. This is where Nedap's UniMulti lamp driver excels, showcasing its strengths.

Versatility as standard

The UniMulti lamp driver entered production in 2010 and was designed to plug the gap in the market for projects requiring lamp power ranging from 60W to 440W. This driver can operate in two configurations: four lamps operating at 220W each or two lamps at 440W, providing a UV power supply of 880W. It is compatible with four voltage levels, enabling versatile configurations based on the lamps used alongside it.

Optimal performance

Flexibility is at the heart of the UniMulti and its series of drivers. The UniMulti is genuinely universal and can be used effectively in multiple applications. In response to customer demands, Nedap recently introduced a new version of the UniMulti driver with an extended input voltage range. The lamp driver now supports the North American standard input voltage of 120Vac, providing even more applications for this exciting technology.

Fit for the future

Nedap worked with lamp manufacturers when designing the UniMulti driver to ensure optimal settings and practical application. For example, we know conventional lamps need to be preheated before ignition. The current and duration required for filament preheating is determined on a per-manufacturer, per-type, and per-lamp basis. These settings can all be pre-programmed into the UniMulti driver's microprocessor, ensuring the best performance with any commercially available lamp type. Customers are provided with a lamp ID, which they can use to manage the driver's performance for each lamp.

The UniMulti driver offers incredible functionality but remains simple to use and can be paired easily. The unit has a staff plug (a small RJ45 connector) that prompts the driver to start automatically when input power is applied.

Customers have praised the UniMulti driver's ability to capture data. Operators can collect information on the lamp behaviour, driver behaviour or ballast. Using the information, they can rapidly identify issues with lamps while monitoring power, voltage, or current. The UniMulti driver is designed to give users the information they need to optimise operations. It's UV technology that combines visibility and versatility.



▲ The bare PCB of the UniMulti is placed in its fixture.



▲ The UniMulti is a lightweight lamp driver. A total of 6 UniMulti units are securely placed in a well-protected cardboard box.

The driver has UL and cUL approval for use in the USA and Canada and has been designed to meet the regulatory demands of today and the future. Its high energy efficiency standards make it a sustainable choice for all operators.

We're continuing to invest in the development of the UniMulti driver series. Working closely alongside customers and lamp manufacturers, we're already developing the next generation of innovative lamp driver technology.

We power UV
Smart UV driver technology for more sustainable operation



Nr. 1 technology • Most efficient driver technology, requires less installation space >900.000 electronic UV lamp drivers installed and in use worldwide.



Reliable • Nedap drivers are designed to last. The average lifetime production of our UV drivers is more than 10 years.



Flexibility • Digital lamp selection and optimization. UV lamp dimming down to 30% and beyond.



Insights • Embedded software for system data reporting.