

PRO8000UV

Ultra-High Resolution 4K+ Production

Ready Optical Engine

Pushing the Boundaries of Resolution and Performance

To meet the ever-increasing demands of ultra-high resolution and industrial-grade reliability in the 3D printing and structured light industries, **Wintech** proudly introduces its latest DLP® optical engine: the **PRO8000UV**.

The **PRO8000UV** offers significant advancements in resolution, output power, and mechanical robustness. Designed specifically for high-performance UV projection, this engine is ideal for professional and industrial 3D printing systems requiring exceptional image quality, stability, and configurability.

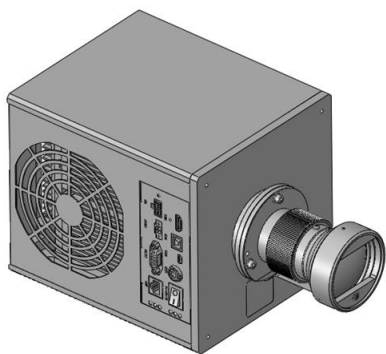


Image Resolution	3840 x 2400
LED Peak Wavelength	385/405 nm ± 5%
Optical Output Power	10 W ± 10%
Working Distance (WD)	Range 392 ~ 1580 mm (Continuously Adjustable)
Contrast Ratio	1500 : 1
Field of View (mm)	230x144 ~ 933x583
Uniformity (%)	>90% +/- 5%
Distortion (%)	<0.1
Cooling	Liquid and Air
Size (mm)	317x175x150
Weight (kg)	6.5

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Key Features and Specifications

- **4K+ UHD Projection:** Supports ultra-high display resolution of **3840 × 2400**, ideal for precision 3D printing and lithography applications
- **UV Wavelength Support:** Compatible with **405nm or 385nm** high-efficiency UV LED light sources
- **High Output Power:** Achieves **10W+ optical power**, with **256 levels of grayscale modulation** for precise exposure control
- **Industrial Zoom Lens:** Equipped with a **single, continuously adjustable zoom lens**, allowing flexible working distances and variable projection resolutions
- **All-Glass Optics with Homogenization:** Features a **full glass optical path** including **micro-lens array (fly's eye)** for superior light uniformity and optical performance
- **Industrial-Grade Mechanical Design:** Built with **all-metal mechanical components and chassis**, engineered for rugged environments and continuous operation
- **Rugged Hardware Interfaces:** Equipped with **reinforced, industrial-standard I/O interfaces**, ensuring reliable connectivity and long-term durability
- **Advanced Cooling System:** Utilizes **integrated water-cooling**, with real-time monitoring of **LED and DMD temperatures** to maintain stable output under extended use

