

ApexCure **Titan X** LED

Product Datasheet

Product code: AC-LED-WLT-DD-WC-LLLL-CTL

Revision: R1.0

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ApexCure **Titan X** LED is a high-power, water-cooled LED UV system. With direct output optics, Titan X LED is designed for maximum irradiance and dose for high-speed industrial and print processes.

Leveraging 18 years of LED UV experience, Apex Cure's LED technology is robustly designed for maximum output efficiency, reliability and easy integration into a wide range of processes and applications.



Specifications

Parameter	Typical Values
Wavelength	365 nm / 385 nm / 395 nm / 405 nm. Other wavelengths available on request UVC to IR
Peak irradiance	20 W/cm ² at 40mm (UVA)
Energy dose	2.8 J/cm ² at 10m/min (UVA) (High dose double window 5.6J/cm ² at 10m/min, (UVA))
Emitting window	(55mm x n) by 32 mm
Working distance	3mm to 120mm
Power input	450W per 55mm
Cooling	Water-cooled
Control	0–100% variable power, hardwire I/O with optional fieldbus control integrations on request to machine PLC's with Profibus / ProfiNET, Modbus TCP / RTU, CanOpen, Ethernet/IP, OPC-UA
HMI	Integrated to control cabinet or remote pendant
Ingress protection	Cabinet and Head IP43
Compliance	CE / UKCA (other approvals on application)

Key Features

- Efficient output for demanding applications.
- Modular head lengths in 55mm steps to suit different process widths and machine layouts.
- Water cooling for compact integration and optimum life.
- Varied wavelength selection for inks, coatings, adhesives and electronics assembly.

Typical Applications

Suitable for printing, coating cure, adhesive bonding, electronics assembly, optical bonding and conveyor-based industrial curing processes where repeatability, intensity stability and compact integration are important.

Mechanical Dimensions Head

Overall head length: $(55\text{mm} \times n) + 90\text{mm}$

Head width: 65.5mm

Head height: 80mm

Mechanical Dimensions Cabinet

Cabinet Height: 600mm

Cabinet width: 600mm

Cabinet depth: 250mm

Ordering and Configuration

Product code: AC-LED-WLT-DD-WC-LLLL-CTL (example AC-LED-395-ND-WC-550-HIO)

Option	Description	Code
Wavelength	365 / 385 / 395 / 405 nm	WLT
Output	Normal (ND) or High Dose (HD)	-DD
Cooling type	Water cooled	-WC
Illumination Width	110 / 220 / 330 / ... / 1980mm (note high dose double window max 990mm)	-LLLL
Interface	Manual Pendent (MP), Hard I/O (HIO), Fieldbus* (PRO, MOD, CAN, EIP, OPC), *Fieldbus will include HIO	-CTL

Notes: Performance values may vary depending on installation, operating conditions and application setup. Confirm final technical suitability, utilities and compliance requirements for the intended use before order placement.