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Data Sheet
August 1, 2026

105-AMX

UV LED Spot Light Source UV-LED-365-I

The UV LED Spot Light Source UV-LED-365-I is a compact and efficient ultraviolet light source ideal for various industrial applications. It emits a focused beam of UV light at a wavelength of 365nm, suitable for curing, inspection, and sterilization processes. Its small size and high intensity make it easy to integrate into existing systems.

MODEL 105-AMX UV-LED-365-I	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU UV-LED-365-I	LISTING https://aumictechlabs.com/products/uv-led-365-i-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The UV-LED-365-I is a compact ultraviolet spot light source engineered for industrial curing, inspection, and sterilization applications. It delivers focused 365 nm UV radiation with output power ranging from 750 mW to 3100 mW, achievable irradiance levels up to 24,000 mW/cm², and instantaneous on/off switching. The modular design accommodates system integration across machine vision, microscopy, and custom optical setups.Technical Specifications Optical Performance Wavelength: 365 nm (nominal) UV Output Power: 750 mW to 3100 mW Peak Irradiance: Up to 24,000 mW/cm² (6,800 mW/cm² at 27 mm typical) Beam Angle: 60° to >140° depending on configuration Spectral Width (FWHM): 9 nm LED Lifetime: 10,000 h to 30,000 h Electrical Specifications Input Voltage: 110–255 VAC (120 VAC/60 Hz or 220 VAC/50 Hz); 100–240 VAC; or 7.5–36 VDC module supply LED Forward Voltage: 3.8 V to 4.0 V Power Consumption: 6 W to 25 W (complete units) Maximum Current: 20 mA to 1700 mA Power Factor: 0.9 Physical

Characteristics LED Module Dimensions: 5.2×5.2 mm to 7.2×7.2 mm; spotlight diameter 7.90 mm Construction: Aluminum (standard) or aerospace-grade hard-anodized aluminum; ceramic SMDs Cooling: Air cooling; passive heat sinks for higher-power configurations Environmental Rating: IP65 to IP67 Operating Environment Operating Temperature: 0°C to +50°C (−10°C to +85°C for select models) Storage Temperature: −40°C to +70°C (−40°C to +100°C extended) Intensity Control: 10%–100% dimmable on select modelsKey Features Instantaneous switching response for dynamic applications Multiple form factors: bare LED modules, PCB-mounted SMDs, and integrated spotlights Scalable power output accommodates low- and high-intensity requirements Passive and active thermal management options Dimmable intensity control availableTypical Applications Fluorescence inspection and defect detection UV curing of adhesives and coatings Sterilization and disinfection systems Machine vision illumination Microscopy and analytical instrumentationCompatibility & Integration Configurable mounting supports breadboard assemblies, extrusion systems, microscope integration, and direct PCB integration via Surface Mount Device packages. Standard M8×1 connectors and flying leads provide connection flexibility across OEM and retrofit installations.

Features & description

From manufacturer datasheet

Features

• Nominal UV wavelength: 365 nm • Spot / directed beam form factor for localized illumination • Solid-state LED source (instant on/off relative to mercury arc lamps) • Intended for curing, inspection, and sterilization-class UV work depending on configuration • Compact size suitable for system integration

UVLED365I Characteristics / Specifications

PARAMETER	VALUE
Model	UV-LED-365-I
Instrument Type	UV LED spot light source
Wavelength	365 nm (nominal)
Optical Output / Irradiance	Not verified fromaprimary OEM datasheet for this exact part number; do not assume specific mW or mW/cm2 values without measuring the unit or obtaining the manufacturer sheet for the installed head
Electrical Supply	Configuration-dependent (AC mains controller or DC-driven LED module); confirm nameplate and connector on the physical unit
Form Factor	Spot light / LED head (exact mechanical envelope varies by vendor packaging)
Cooling	Typically air-cooled LED package for continuous or intermittent spot use Identification Note Multiple unrelated vendors sell 365 nm UV LED spot and curing lamps under similar descriptive names. Electrical ratings, irradiance, beam angle, and lifetime vary widely. Treat measured optical power and the unit nameplate as authoritative for the specific serial.
Nominal UV wavelength	365 nm

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

characteristics that follow from the part designation and from typical 365 nm UV LED spot sources of this class. Catalog brand marking associated with some inventory listings is 105-AMX.

Applications
UV adhesive and coating curing, fluorescence inspection and defect detection, machine-vision UV illumination, microscopy and analytical setups, and compact OEM optical integration whereafocused 365 nm spot is required.

Key Features
- Nominal UV wavelength: 365 nm
- Spot / directed beam form factor for localized illumination
- Solid-state LED source (instant on/off relative to mercury arc lamps)
- Intended for curing, inspection, and sterilization-class UV work depending on configuration
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Technical Specifications

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PARAMETER	VALUE
Model	UV-LED-365-I
Instrument Type	UV LED spot light source
Wavelength	365 nm (nominal)

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Specifications

PARAMETER	VALUE
Electrical Supply	Configuration-dependent (AC mains controller or DC-driven LED module); confirm nameplate and connector on the physical unit
Form Factor	Spot light / LED head (exact mechanical envelope varies by vendor packaging)
Cooling	Typically air-cooled LED package for continuous or intermittent spot use

Identification Note
Multiple unrelated vendors sell 365 nm UV LED spot and curing lamps under similar descriptive names. Electrical ratings, irradiance, beam angle, and lifetime vary widely. Treat measured optical power and the unit nameplate as authoritative for the specific serial.

Standard Operating Conditions
Use UV eye and skin protection. Do not stare into the beam. Operate within the marked supply voltage and duty cycle. Allow adequate heat sinking or forced air if the head is enclosed.

Operational Notes
For datasheet-grade optical power, irradiance atastated working distance, spectral FWHM, and lifetime, obtain the manufacturer document for the exact head or measure withacalibrated UV radiometer. Inventory descriptions that aggregate broad ranges across many UV LED products should not be treated as this part's guaranteed specs.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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