

High-intensity, Cool-operation LED Spot Curing System

The SkyBeam is a sleek, high-intensity LED spotlight curing system, perfect for dynamic applications on benchtops and automated production lines. Its integrated design, encompassing an in-built power supply, allows it to adeptly support up to four customizable light guides, negating the need for external adapters. User operations are a breeze, thanks to intuitive exposure controls, foot pedal activation, and the ability to tailor each of the four irradiation channels with adjustable timers and power. Durability is at its core, with robot-grade UV light guide cables that can withstand rigorous use, available in four distinct wavelengths. For those prolonged sessions, its advanced fan-cooling system and temperature sensors ensure the equipment remains at the right temperature. Encapsulated in a contamination-resistant sealed aluminum body, and further secured with a key for authorized adjustments, SkyBeam sets the gold standard for compact, efficient, and secure lighting solutions.



Features



4 Irradiation Channels

The system features 4 independent irradiation channels, each with 0-999.9 second exposure timer and 10 to 100% power adjustment range. Each channel's UV light spot size can be adjusted by replacing the optical lens at the end of its light guide, with the service life of each irradiation channel independently recorded.

Built-in Power Supply

The built-in power supply and compact design ensures the unit occupies minimal space, and eliminates the need to manage an external power adapter.

External Control Interface

The system can be remotely monitored and controlled using isolated logic signals available at the rear panel terminals. The digital logic functions allow high-speed control of the SkyBeam for applications requiring a direct interface with machine controllers or PLCs. Control signals include LEDs on/off and a safety interlock that disables LEDs for operator protection.

Cool Operation

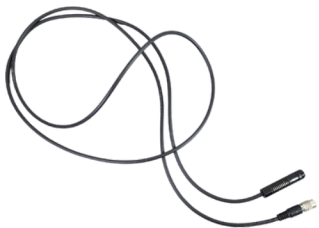
Both convection cooling and fan cooling UV LED light guides are offered. The fan cooling type has better heat dissipation and is suggested for continuous operation. The UV LED light guide has a built-in temperature sensor that monitors the temperature and prevents the light guide from overheating.

Security Key Switch

The system comes with a security key switch that prevents operators from making unauthorized changes to the approved running parameters.

Long-Life Flexible Light Guides

The cable of the UV LED light guides is a 2-meter flexible robot cable, tested to over 10 million bending cycles. 4 wavelengths are available, including 365, 385, 395 and 405 nm.



Dimensions & Specs

- **System Type:** LED Spot Curing System
- **Part #s:** UV3979
- **Input Voltage:** 100–240VAC ±10%
- **Input Current (Max @ 120/240V):** 1.0 Amps at 120V, 0.5 Amps at 240V
- **Irradiance @ 1":** From 900–14,000 mW/cm² UVA (lens dependent)
- **Curing Area:** From 3 mm–15mm spot size (lens dependent)
- **Weight:** 3.25 lbs
- **Size (L x W x H):** 140 mm x 92 mm x 160 mm

System Part Numbers

PART	Item	Details
UV3979-365F	SkyBeam Spot System w/ 365nm LED Fan Cooled Light Guide	Includes 6mm and 12mm lens, length=82mm
UV3979-385F	SkyBeam Spot System w/ 385nm LED Fan Cooled Light Guide	Includes 6mm and 12mm lens, length=82mm
UV3979-395F	SkyBeam Spot System w/ 395nm LED Fan Cooled Light Guide	Includes 6mm and 12mm lens, length=82mm
UV3979-405F	SkyBeam Spot System w/ 405nm LED Fan Cooled Light Guide	Includes 6mm and 12mm lens, length=82mm
UV3979-365C	SkyBeam Spot System w/ 365nm LED Convection Cooled Light Guide	Includes 6mm and 12mm lens, length=85mm
UV3979-385C	SkyBeam Spot System w/ 385nm LED Convection Cooled Light Guide	Includes 6mm and 12mm lens, length=85mm
UV3979-395C	SkyBeam Spot System w/ 395nm LED Convection Cooled Light Guide	Includes 6mm and 12mm lens, length=85mm
UV3979-405C	SkyBeam Spot System w/ 405nm LED Convection Cooled Light Guide	Includes 6mm and 12mm lens, length=85mm

Light Guide Part Numbers

PART	Item	Details
UV4053-365F	365nm LED Light Guide, Fan Cooled	Includes 6mm and 12mm lens, length=82mm
UV4053-385F	385nm LED Light Guide, Fan Cooled	Includes 6mm and 12mm lens, length=82mm
UV4053-395F	395nm LED Light Guide, Fan Cooled	Includes 6mm and 12mm lens, length=82mm
UV4053-405F	405nm LED Light Guide, Fan Cooled	Includes 6mm and 12mm lens, length=82mm
UV4054-365C	365nm LED Light Guide, Convection Cooled	Includes 6mm and 12mm lens, length=85mm
UV4054-385C	385nm LED Light Guide, Convection Cooled	Includes 6mm and 12mm lens, length=85mm
UV4054-395C	395nm LED Light Guide, Convection Cooled	Includes 6mm and 12mm lens, length=85mm
UV4054-405C	405nm LED Light Guide, Convection Cooled	Includes 6mm and 12mm lens, length=85mm

Light Guide Lens Part Numbers

PART	Spot Size	Irradiance at Distance	Wavelength
UV4030-12MM	12mm	1.5 W/cm ² at 27mm	365nm
UV4030-6MM	6mm	5.6 W/cm ² at 13mm	365nm
UV4030-4MM	4mm	8.5 W/cm ² at 7mm	365nm
UV4030-3MM	3mm	11 W/cm ² at 6mm	365nm
UV3982-15MM	15mm	1.4 W/cm ² 1.6 W/cm ² 1.9 W/cm ² at 28mm	385nm / 395nm / 405nm
UV3982-12MM	12mm	1.7 W/cm ² 2.0 W/cm ² 2.3 W/cm ² at 26mm	385nm / 395nm / 405nm
UV3982-6MM	6mm	5.3 W/cm ² 6.3 W/cm ² 7.4 W/cm ² at 11mm	385nm / 395nm / 405nm
UV3982-4MM	4mm	10.0 W/cm ² 12.0 W/cm ² 14 W/cm ² at 5mm	385nm / 395nm / 405nm

Accessories

PART	Item	Details
UV4045	Foot Switch, Exposure Control	With flying leads for attachment to controller terminal block
UV4046	Security Switch Replacement Keys	Set of two
UV4047	Power Cord	AC Power Cord, 120V US Plug for SkyBeam
UV2232	UV/IR Protective Safety Glasses	Sport contour, 5.0 shade
UV1890	UV Protective Face Shield	Lift-up face shield ideal for maximum protection, 5.0 shade
UV4006-XX	LEDCure Radiometer	Dynamic range 0.4-40W/cm ² . Available in L365, L385, L395, L405.
UV4244-12	LEDCure Radiometer Light Guide Fixture	Measure spot guide output with EIT radiometer