

UV Conveyor 40 Plus

UV Dual-Lamp Curing Conveyor

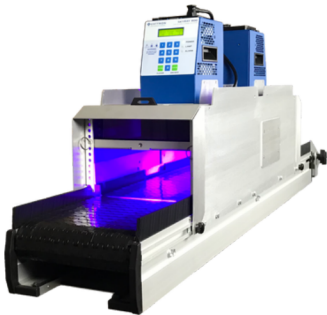


Dual-Lamp, Mid-Power UV Conveyor with side cure capability

The UV Conveyor 40 Plus is a compact, high-performance UV light curing conveyor system designed for lab and production use. It boasts a quiet, variable speed motor with consistent belt speed for varied loads, making it efficient for different applications. The system is flexible, with adjustable lamp height for varied part sizes and removable lamp heads that can also function as stand-mounted systems, offering versatility in use. This conveyor system can be equipped with either single or dual high-intensity lamp heads, delivering powerful UV curing capabilities. It is compatible with the SunRay arc lamp and SkyRay LED lamp systems and can also be paired with additional sidecure PortaRays arc lamps for applications demanding full UV coverage. This makes the UV Conveyor 40 Plus an adaptable solution for different UV curing needs. Designed with users in mind, it features full UV shielding for operator safety and a range of optional features for customized operation, including various reflector and lamp spectrum options and different conveyor lengths for special orders.



Features



Adjustable Lamp Height

Foldaway end hoods provide quick access to height adjustment pins, which provide perfectly repeatable settings of lamp head to belt distance.

Adjustable End Chute

The system has an adjustable position end chute for accumulating cured parts as they exit the conveyor.

Full UV Shielding

The conveyor light chamber is totally enclosed, shielding the operator and others nearby from any UV radiation. The light chamber entrance and exit are protected by sliding tinted acrylic doors with extended hoods.

Digital Speed Readout & E-stop Switch

A digital rate meter accurately displays the conveyor's belt speed in feet per minute, allowing for repeatable curing time settings. An emergency stop switch provides for quick and safe shutdown of conveyor and lamps.

Removable Lamp Heads

The system's dual lamp heads can be easily removed for bulb replacement and maintenance. The lamp heads can also be moved quickly from the conveyor to optional low cost shielded mounting stands or curing chambers. This feature allows for offline engineering process testing, and maximum equipment utilization. The system can be set up with sidecure and various dual top lamp heads for maximum output.

Dual Spectrum Capable

The UV Conveyor 40 dual lamp heads offer the unique curing advantage of mixing any of its 4 available lamp spectrum types. For instance, the conveyor's first lamp head can be fitted with a UVB lamp for sealing the surface, preventing oxygen from diffusing and causing surface tackiness. The second lamp can be a UVA type, whose longer wavelengths penetrate more effectively, providing deeper curing.



150 Front St., Unit 4 | West Springfield, MA 01089

413.731.7835 | uvitron.com | info@uvitron.com | SAM-DOC-025, 102323

UV Conveyor 40 Plus

UV Dual-Lamp Curing Conveyor



Dimensions & Specs

- **System Type:** Dual-lamp, variable-speed UV Curing Conveyor
- **Part #s:** UV3028-120M (120 VAC), UV3028-240M (240 VAC, required for dual SkyRay 800)
- **Input Voltage:** 100-120 / 200-240 VAC \pm 10%
- **Input Current (Max @ 120/240V):** 20A at 120V, 15A at 240V
- **Curing Width:** 6" exposure width, 9" max part width
- **Belt L x W:** 54 x 9"
- **Belt Speed:** 0.5-25' / min
- **Lamp Height, Adjustable:** 1.2-6.7", 0.5" steps
- **Size (L x W x H):** 54 x 14 x 16"
- **Weight:** 63.2 lbs

Lamp Type	2 SunRay 400 UVA (arc)	2 SunRay 600 UVA (arc)	2 SkyRay 800 365nm (LED)	2 PortaRay 400 Sidecure UVA (arc)
Lamp Power	400W	600W	800W	400W
Irradiance (3" distance)	115 mW/cm ²	175 mW/cm ²	1000 mW/cm ²	95 mW/cm ² @ 5"
Curing Energy (0.5-25' / min)	294-14,683 mJ/cm ²	447-22,344 mJ/cm ²	2600-116,000 mJ/cm ²	175-8,500 mJ/cm ² (per side)
Exposure Time	3.2-160 sec.	3.2-160 sec.	2.0-100 sec.	2.0-100 sec.

System Part Numbers

PART	Item	Details
UV3028-120M	UV Conveyor 40 Plus, 120 VAC	Bench-top variable speed conveyor (lamp heads and mounting stands sold separately). Includes adjustable end chute, power cord and manual
UV3028-240M	UV Conveyor 40 Plus, 240 VAC	Bench-top variable speed conveyor (lamp heads and mounting stands sold separately). Includes adjustable end chute, power cord and manual. Note: 240 VAC, required for dual SkyRay 800 or sidecure configurations.

Accessories

PART	Item	Details
UV0886	Conveyor Mounting Stands, Adjustable Height (set of two)	Extruded aluminum with swivel support brackets and adjustable leveler pads
UV4277	Photoelectric Sensor Kit	Triggers SkyRay Lamps via Parts Feed
(Multiple)	Power cords	Multiple types available
UV1450-XX	Uvicure Plus II Integrating Radiometer	UVA, UVB or Visible spectral ranges (available in multiple ranges)
UV4006-XX	LEDcure UV LED Integrating Radiometer	Dynamic range 0.4-40W/cm ² . Available in L365, L385, L395 or L405.
UV0495	UV/IR Protective Safety Glasses	OTG (fit over prescription eyewear), 3.0 shade
UV2231	UV/IR Protective Safety Glasses	Sport contour, 3.0 shade
UV1889	UV Protective Face Shield	Lift-up face shield ideal for maximum UV/Visible light protection, 3.0 shade
UV4268	Stainless Steel Curing Tray	7 x 9 x 1" (for small parts on belt)

Replacement Parts

PART	Item	Details
UV0899	Replacement Chain Conveyor Belt	High temperature polypropylene
UV0320	UVA Metal Halide Lamp	400W medium pressure
UV0544	UVB Enhanced Lamp	400W medium pressure
UV0489	Visible Metal Halide Lamp	400W medium pressure, 420nm
UV0545	Visible Metal Halide Lamp	400W medium pressure, 460nm
UV0834	UVA Metal Halide Lamp	600W medium pressure
UV1884	UVB Enhanced Lamp	600W medium pressure
UV1074	Visible Metal Halide Lamp	600W medium pressure, 420nm

