

SunBelt BT9

Compact UV Curing Conveyor



Compact, Tabletop UV Conveyor

The Uvitron SunBelt BT9 is a compact, tabletop UV conveyor system designed for swift curing of adhesives, resins, and other coatings. As a scaled-down variant of the larger SunBelt 25 and UV Conveyor 40, it's ideal for curing smaller parts in both labs and production lines. The device integrates a silent, variable-speed motor, and features adjustable lamp height for diverse part sizes, providing flexibility for different curing needs. With options to install one or two PortaRay lamp heads or a single SkyRay head, it offers versatility in UV curing applications. The SunBelt BT9 ensures operator safety with its effective UV shielding and allows for precise control over conveyor speed for accurate curing. Whether used with one or two PortaRay lamps, the system supports a combination of different lamp spectrums to optimize the curing process efficiently. With its user-friendly controls, adjustable components, and versatile lamp configurations, the SunBelt BT9 is a reliable choice for various UV curing requirements.



Features



Convenient Controls and Indicator Panel

The side-mounted controls and indicator panel include a variable frequency drive with a digital speed readout, allowing precise adjustment and regulation of the conveyor belt speed. This feature enables repeatable product exposure times and consistent curing doses, with the LED display providing real-time feedback.

Versatile Curing Options

SunBelt BT9 can be equipped with either PortaRay broad-spectrum UV arc lamp heads or a SkyRay 800 UV LED lamp head, allowing it to adapt to different materials and curing requirements. This flexibility makes it suitable for a wide range of applications, from curing light-activated adhesives to resins, coatings, inks, and paints.

Adjustable Lamp Height

With adjustable position lamp headrests (sold separately), users can seamlessly set the lamp height to achieve the optimum curing distance for various part sizes. The closer the lamps are to the curing substrate, the higher the effective intensity of the UV light, providing flexibility for different curing needs.

Effective UV Shielding

The conveyor boasts a completely enclosed UV curing chamber, safeguarding operators from hazardous UV light exposure. The sliding aluminum entry and exit doors, in conjunction with UV shield curtains at the entrance and exit, provide additional safety while allowing parts to pass through smoothly.

Removable and Interchangeable Lamp Heads

Lamp heads can be easily removed for bulb replacement or maintenance tasks, and they can also be transferred quickly to optional benchtop mounting stands or curing chambers for offline testing, ensuring maximum equipment utilization and operational efficiency.



150 Front St., Unit 4 | West Springfield, MA 01089
413.731.7835 | uvitron.com | info@uvitron.com | SAM-DOC-010, 102323

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Dimensions & Specs

- **System Type:** Variable-speed, Compact UV Conveyor
- **Part #s:** UV4080 (120VAC); UV4081 (240VAC)
- **Lamp Power:** PortaRay: 400/600W; SkyRay 800: 800W
- **Input Voltage:** 100-120 / 200-240 VAC $\pm 10\%$
- **Input Current (Max @ 120/240V):** 20 Amps at 120V / 10 Amps at 240V
- **Curing Energy:** 0.172–10 J/cm² (1 PortaRay 400) / 1.12–65 J/cm² (1 SkyRay 800 365nm)
- **Curing Width:** 5"
- **Belt Width:** 9"
- **Belt Speed:** 0.5 to 29' /min
- **Lamp Height, Adjustable:** 3–6.5" (PortaRay) / 0.5– 4" (SkyRay)
- **Weight:** 35.1lbs
- **Size (L x W x H):** 30 x 14.56 x 13.36"

System Part Numbers

PART	Item	Details
UV4080	SunBelt BT9, 120VAC	Bench-top variable speed conveyor; includes adjustable end chute, power cords and manual (PortaRay or SkyRay lamp heads and headrests sold separately)
UV4081	SunBelt BT9, 240VAC	

Accessories

PART	Item	Details
UV1051	Power Cord	2.5 meter, North American (for use with UV4080)
UV3954	Power Cord	2.5-meter, Continental Europe (for use with UV4081)
UV3614	Power Cord	3-meter, United Kingdom (for use with UV4081)
UV3006	Power Cord	2.5-meter, China / Australia (for use with UV4081)
UV4006-XX	LEDcure UV LED Radiometer	Dynamic range 0.4-40W/cm ² . Available in L365, L385, L395, L405.
UV1450-XX	UVICure Plus II Integrating Radiometer	UVA, UVB, UVC or Visible spectral ranges (available in multiple ranges)
UV0495	UV / IR Protective Safety Glasses	OTG (fit over prescription eyewear), 3.0 shade
UV0231	UV / IR Protective Safety Glasses	Sport contour, 3.0 shade
UV1889	UV Protective Face Shield	Lift-up face shield ideal for maximum light protection, 3.0 shade
UV4268	Stainless Steel Curing Tray	7 x 9 x 1"
UV4133	Headrest Assembly, Single SkyRay Lamp Head	Includes lamp head power cord and mounting hardware
UV4135	Headrest Assembly, Single PortaRay Lamp Head	Includes lamp head power cord and mounting hardware
UV4137	Headrest Assembly, Dual PortaRay Lamp Heads	Includes lamp head power cord and mounting hardware

Replacement Parts

PART	Item	Details
UV4079	Replacement Conveyor Belt	Stainless Steel Wire
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



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