Benchtop High-Power Light Curing Conveyor
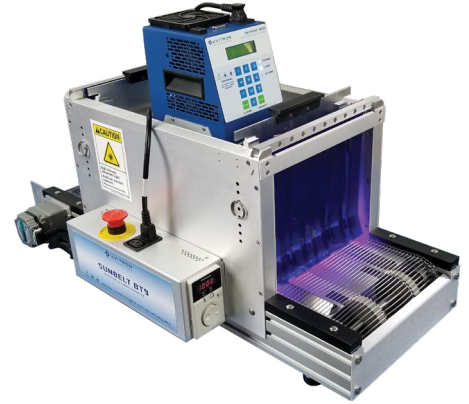
The Uvitron SunBelt BT9 is a bench or tabletop mounted conveyor designed for the rapid curing of light activated adhesives, resins, coatings, inks and paints on smaller parts. The unit is suitable for laboratory or volume production. The SunBelt BT9 features a quiet variable speed motor with a velocity regulating drive that keeps the belt speed constant for varying loads. The conveyor can be outfitted with either one or two PortaRay broad-spectrum UV arc lamp heads or one SkyRay 800 UV LED lamp head. The system also provides two AC line input versions and an adjustable end chute.
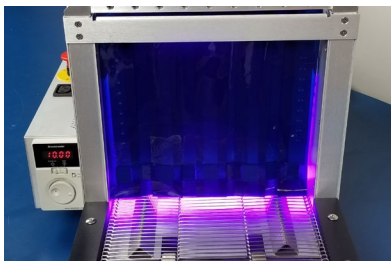
Features

Adjustable Lamp Height
The conveyor's adjustable position lamp headrest (sold separately) allows you to easily and repeatedly set the lamp height for an optimum curing distance for various part sizes. The lamp to belt adjustment is 3–6.5" for the PortaRay and 0.5–4" for the SkyRay.

Effective UV Shielding
The SunBelt BT9 has a completely enclosed curing chamber, which shields the operator from UV light, as well as sliding aluminum entry and exit doors designed to block UV light. The curing chamber shield curtains provide supplemental protection against light scatter.

Convenient Side-Mounted Controls and Indicators Panel
The SunBelt BT9 features a variable frequency drive with a digital speed readout that adjusts and regulates the conveyor belt speed up to 29' per minute, allowing for repeatable product exposure time and curing dose. The system also features a red E-stop push button for power cutoff in emergency shut-off situations.

Dimensions & Specs

- **System Type:** Conveyor, variable speed
- **Part #s:** UV4080 (120VAC) / UV4081 (240VAC)
- **Lamp Power:** PortaRay 400W / 600W; SkyRay 800W
- **Input Voltage:** 100–120 / 200–240VAC + 10%
- **Input Current (Max):** 20 Amps @ 120V / 10 Amps @ 240V
- **Curing Energy:** 0.172–10 J/cm^2 (1 PortaRay 400) / 1.12–65 J/cm^2 (1 SkyRay 800 365nm)
- **Curing Width:** 5.0"

- **Belt Width:** 9.0"
- **Belt Speed:** 0.5 to 29 feet/min
- **Lamp Height, Adjustable:** 3–6.5" (PortaRay) / 0.5– 4" (SkyRay)
- **Weight:** 35.1 lbs
- **Size (L x W x H):** 30" x 14.56" x 13.36"

Accessories and Replacement Part Numbers

Part No.	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-XXX	LEDCure UV LED Radiometer	365, 385, 395 or 405nm, 40W/cm2
UV1450-MX	UVICure Plus II Radiometer	UVA, B, C, or visible, 10–1000W/cm2
UV0495	UV / IR Protective Safety Glasses	OTG (fit over prescription eyewear), 3.0 shade
UV02231	UV / IR Protective Safety Glasses	Sport contour, 3.0 shade
UV01889	UV Protective Face Shield	Lift-up face shield ideal for maximum UV / Visible light protection, 4.0 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

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Part No.	Item	Details
UV4080	SunBelt BT9, 120VAC 50 / 60 Hz	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 50 / 60 Hz	Bench-top variable speed conveyor; includes adjustable end chute, power cords and manual (PortaRay or SkyRay lamp heads and headrests sold separately)