

UV Conveyor 40 is a bench-top or stand-mounted light curing system designed for laboratory or high volume production applications. The conveyor features a quiet variable-speed motor, with a velocity regulating drive that keeps the belt speed constant for varying loads. The system can be configured with single or dual high intensity lamp heads, which can be removed and reconfigured as stand mounted systems for increased versatility. The belt-to-lamp height can be easily adjusted from 1.5 to 5 inches, for improved compatibility with varying part sizes. A side curing option is available. UV Conveyor 40 Plus adds optional UV curing lamps to each side of the conveyor for full UV coverage.



- 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 and 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.



- Side Curing Option

The UV Conveyor 40 can be configured with side curing by adding a PortRay UV cure unit to each side. This will ensure complete coverage for applications where a side cure is necessary. To order, refer to UV Conveyor 40 Plus Side-Cure.



- 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.



- Exhaust Port

The light chamber has a top-mounted 3" diameter port, for optional venting to facility exhaust systems.



- 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. This method optimizes adhesive reaction speed, without the need for expensive nitrogen purge or the delays of pulse curing.

- Optional Mounting Stands

The system may be configured with extruded aluminum height adjustable mounting stands. The stands have unique swivel support brackets that allow them to support inclined conveyors, as well as provide angular transitions between continuous conveyors.



- Conveyor Performance

0.5 to 12 Ft. /min., >100 mW/cm² UVA, Exposure: 1 lamp = 3.3-80 sec. (333- 8,000 mJ/cm²), 2 lamps = 6.65 to 160 sec. (665-16,000mJ/cm²).



- Conveyor Dimensions

54 inch length, 10 inch width, 15.5 to 20 inch overall height, 9-inch belt width, 6-inch cure width. Other conveyor lengths are available as special order.