

Case Study

Application: UV Conveyor Systems with LED Curing



Ultra LED Conveyor System



Phoseon FireJet™ FJ200

- Proven Reliability
- Superior Performance
- Innovative Technology

Systematic Automation integrates UV LED curing by Phoseon into conveyors

The Systematic Automation Ultra LED conveyor is designed to support a wide array of UV curing applications with a quick return on investment.

About the Ultra LED Conveyor (<https://youtu.be/IVLFJRLBIMI>)

The Ultra Light LED is used for curing coatings, adhesives and inks. It features the Phoseon FireJet™ series UV LED light sources. Inside and out, Systematic Automation's conveyors are manufactured to withstand the most rigorous work environments. Systematic Automation's Teflon coated conveyor belts are built to withstand continuous use.

The Ultra LED conveyor features adjustable shroud and conveyor belt height, adjustable LED focal point, and intensity along with LED temperature readings. The Ultra LED is very energy efficient (compared with conventional UV), emits less light intensity and is ozone free (no venting is required).

Lifetime of at least 20,000+ hours of run time.

Ultra LED Conveyor Features:

- Modular LED input-with LED system of choice.
- Digital display of conveyor speed, speed easily changed by up/down arrow keys.
- Programmable scale factor in different units.
- Standard conveyor speeds 1-50 or 1-10 FPM, with custom speeds available.
- Relay output provided for interface to other equipment.
- Light shielding.
- Height adjustment for taller products, from 1" to 3.25" in .75" increments.
- Special Teflon coated belt for longer life than conventional belts.
- Unique conveyor pulley design for perfect belt tracking.
- Adjustable legs for conveyor height position from 35.5" (902 mm) to 42.5" (1079 mm).

LED Light Sources

Phoseon's air-cooled FireJet FJ100 and FJ200 light sources are the most common systems integrated into the Ultra LED conveyors. The FireJet high-irradiance UV LED curing system is capable of curing at the highest speeds for a variety of applications.

About Systematic Automation

Systematic Automation Inc. has been the industry leader in automating production for over 30 years. What began with screen printing machines, spread to UV curing systems, flame treatment systems and vacuum tables. For more information visit:

<http://www.systauto.com/>