

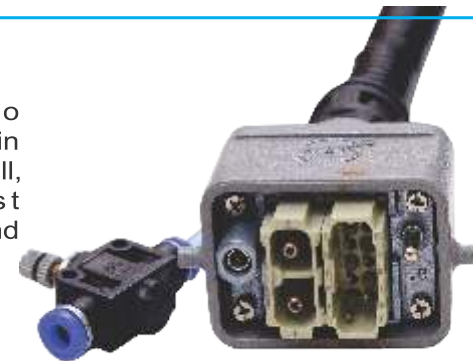
LED technology has become a real alternative solution in the sphere of light curing. To date, the efficiency of both the individual LEDs and the system as a whole have been increased, resulting in further improved drying quality. Simple integration, dispensing with ozone and mercury and the lack of thermal radiation favour a broad range of applications for this technology in industrial curing.

Whether in the curing of printing inks, adhesives or varnishes on various substrates – LED UV curing is seeing high growth rates in coating industries. However,

distribution of the two technologies differs widely in the various segments. Overall, LED systems are most frequently used in inkjet and adhesives applications.

What is LED UV CURING

LED UV systems are used for materials that contain photo initiators, for example in applications for curing adhesives in bonding or sealing processes or for drying materials such as inks, lacquers, paints, and clear coats. Especially UV light, leads to photo polymerization or radiation curing.



Consistent Print Quality

- No set-off, so printed sheets can be stacked immediately after printing
- No color change due to dry-down

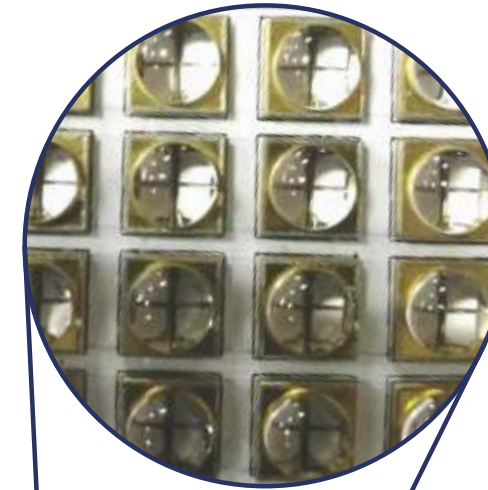
Shorter Lead Times

- There is no need to wait for Printed sheets to dry, work can immediately
- No space is needed to store printed sheets while they dry
- Synchronize with master press

No Ozone Smell

- No need to install decolorizing equipment or exhaust ducts
- LED-UV systems can be used in congested area

Lens for Focussed Curing

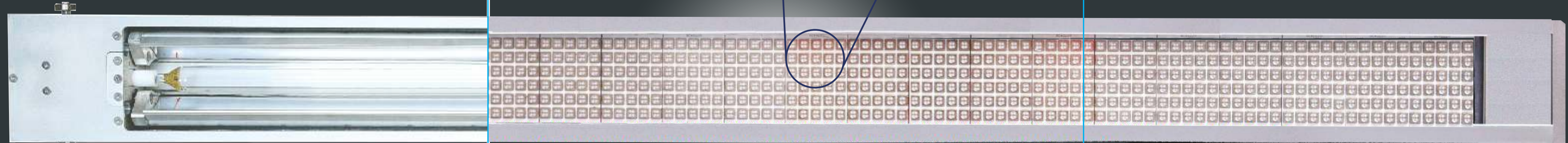


Greatly Reduced Power Consumption

- LED-UV uses 1/8th of the power a conventional UV Lamp system as needs
- Light source can be instantly switched on/off to suit the operation status
- Reducing power consumption during job turnover
- Curing length available 100mm to 1600mm
- Power intensity - 8w/cm²-30 w/cm²
- Printing speed 225 meter/minute
- Wavelength - 365nm, 385nm, 395nm \$ 405nm
- Easy to maintain & user-friendly
- Step power control 5% to 100% for LED
- Individually replaceable chip ø



Efficient LED UV CURING Technology for Coating Industries



LED UV CURING SYSTEM

.....Best curing solution for a PERFECT printing



PRODUCT FEATURES

- Easy To Install & Compact Design
- Only 1 LED Cassette required for 4 colour
- Compatible with all Presses
- Life of Diodes 25000 working hrs
- Wave length is 365 - 395 nm
- About 80% Power Saving
- Single Touch Operating System
- No Heat Generated such as Conventional UV

AREA OF APPLICATION

- Printing Industry
- Rubber Industry
- Automobile Industry
- Wood & Floor Paint Industry
- Fungi & Sterilization Treatment



SHEET-FED OFFSET & FLEXO PRINTING

Environment Friendly

- Powerless printing ensure a cleaner work environment
- LED-UV ink is recyclable and easily removable
- Lower energy consumption leading to reduced Co₂ emissions O₃ (ozone)
- Substrate moisture retention
- Birmingham Printing Commitment to Environment Friendly Print

Compatible With Special Media

- Printing is possible on resin film, PVC, PET, PC, PP etc.
- Synthetics Sheets
- Metalized sheet Printing
- Gumming Sheet Printing
- Vinyl Sheet Printing
- Other types of special media

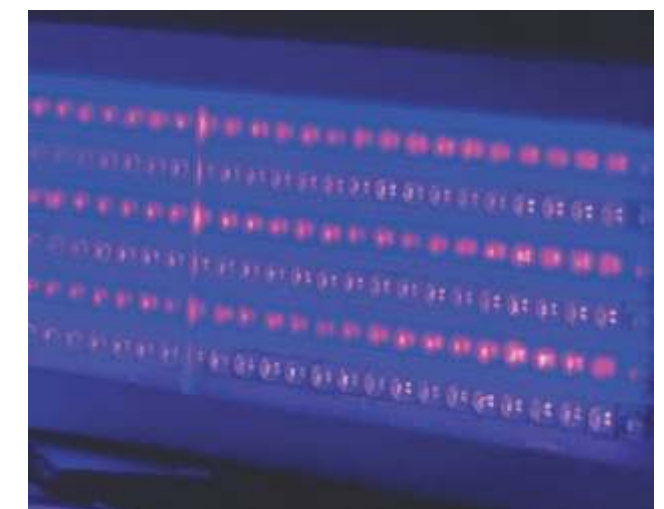


No Infrared Light

- LED-UV perfecter produce no infrared light, so the unit generates much less heat
- LED-UV emit very little infrared heat 60°C unlike conventional UV \$ H-UV
- Printed sheets do not shrink due to heat
- The LED-UV system is compatible with resin film and other media

Long Life

- Conventional UV Lamp Systems = 1,000 lifetime hours
- UV Lamp systems must be remain illuminate during job changeover, the LED-UV system can be switched off
- Low maintenance required
- One LED-UV is ample for four color printing



385nm 395nm
MULTI-WAVE LED Curing