

ADT AV-57L LED UV Curing Machine Owner's Manual

[Home](#) » [ADT](#) » ADT AV-57L LED UV Curing Machine Owner's Manual 

Contents

- [1 ADT AV-57L LED UV Curing Machine](#)
- [2 Operation](#)
- [3 Maintenance](#)
- [4 Description](#)
- [5 Curing Data](#)
- [6 Nitrogen Kit \(Optional\)](#)
- [7 Frequently Asked Questions](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)



ADT AV-57L LED UV Curing Machine



Specifications

- **Type:** LED UV Curing System
- **UV Wavelength:** 365 nm
- **Intensity:** Controllable from 0% to 100%
- **Voltage (single-phase):** 100-230 VAC
- **Current:** 16-20 Amps
- **Frequency:** 50/60 Hz
- **Power:** 2,880-5,280 VA
- **Operating Temperature:** 15-30°C (59-86°F)
- **Operating Humidity:** 20-90% RH (non-condensing)
- **Maximum Frame Diameter:** 12
- **Exposure Area:** 400×400 mm

Operation

The AV-57L LED UV Curing System is designed for efficient curing of various materials. Follow these steps to operate the system:

1. Ensure the system is connected to a power source within the specified voltage and current range.
2. Turn on the power switch located on the system.
3. Set the desired intensity level using the controller.
4. Place the material to be cured within the exposure area of the system.
5. Activate the curing process using the user interface panel.
6. Monitor the curing process through the LED intensity indicators and light tower.

Maintenance

To ensure optimal performance, regular maintenance of the AV-57L LED UV Curing System is essential. Follow these maintenance guidelines:

- Clean the system components regularly to prevent dust buildup
- Check for any loose connections or damaged parts and repair them promptly.
- Calibrate the intensity control periodically to maintain curing efficiency.

Safety Precautions

When using the AV-57L LED UV Curing System, observe the following safety precautions:

- Do not look directly at the UV light source to avoid eye damage.
- Ensure proper ventilation in the operating area to dissipate heat generated during curing.
- Use appropriate personal protective equipment, such as gloves and safety goggles, when handling materials.

LED UV Curing System

Cutting-edge UV LED Curing Machine The AV-57L features advanced LEDs emitting a precise 365 nm light wave, offering unmatched curing efficiency for demanding applications. Experience new levels of speed and performance.

• System Features

- Compact design: Space-saving tabletop unit without compromising functionality
- Touchscreen controls: Real-time monitoring with precision
- Fast curing: Achieves superior results in just 5 seconds

• Operational Features

- Programmable controls for tailored efficiency
- Manual or automatic stop options for flexibility
- Light tower & buzzer for clear alerts
- Fast curing: Achieves superior results in just 5 seconds

• Intensity

- The nominal intensity of the UV LED is shown in the following graph:

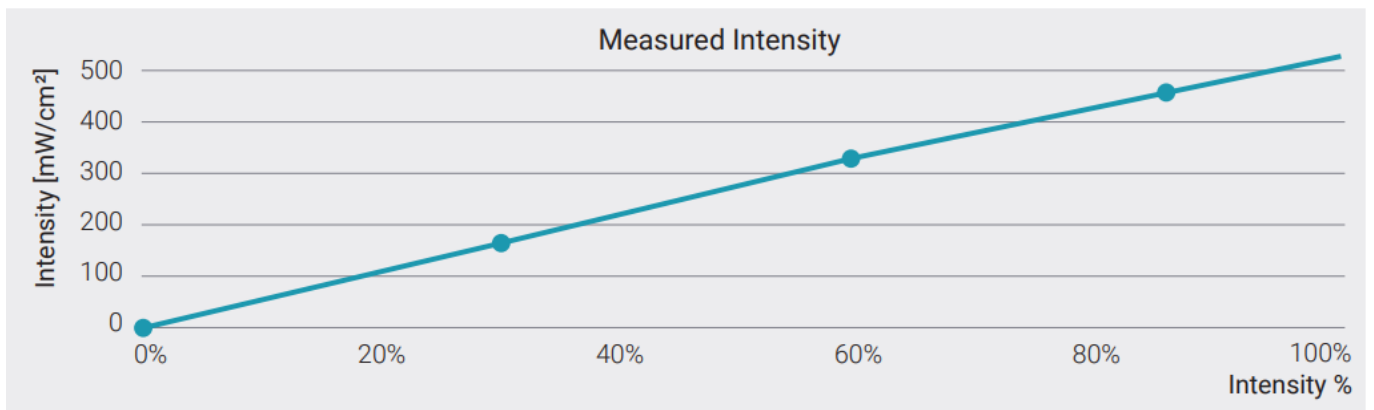
• Safety Features

- Emergency Stop Button: Instantly cuts power for safety
- Drawer sensor: Automatically halts operation if opened
- Separate work area: Keeps electronics isolated for added safety

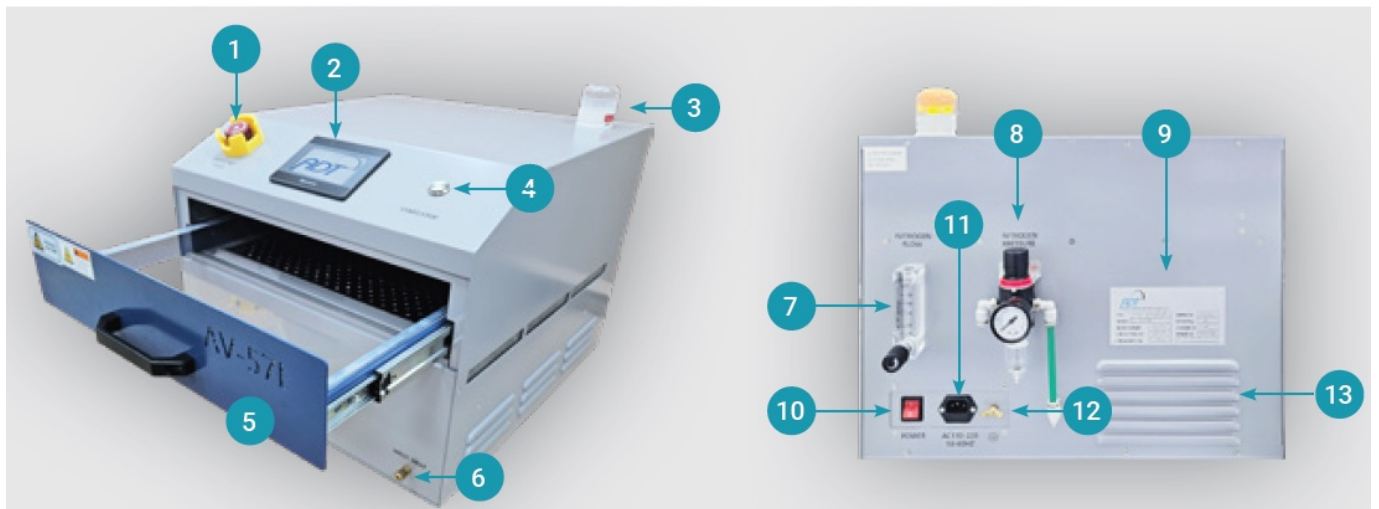
• Versatile Curing Options

- Nitrogen Kit: Removes Oxygen for optimal curing
- Frame Shutter Kit: Protects the frame from UV radiation

Measured Intensity



Description



1. Emergency stop button
 2. Controller
 3. Light tower
 4. Start/Stop button
 5. Sliding drawer
 6. ESD wrist-strap socket
 7. Nitrogen* flow control
 8. Nitrogen* pressure valve with gauge
 9. System nameplate
 10. Power (on/off) switch
 11. AC mains power socket
 12. Grounding wire holder
 13. Ventilation exit
- Nitrogen Kit (Optional)

User Interface Data

PLC Operator Panel	
Type	Electrically programmable _____controller_____
Display size	4.3" color touchscreen
User control	Setup and manual _____activation_____
Indications	Curing timer and process _____parameters_____
Log	Machine errors
Led intensity	Controllable (0%-100%)
Light tower	Green, Yellow, Red, Buzzer
Power Cut off	EMO – Emergency push _____button_____

Dimensions

Width	500 mm (19.7")
Depth (drawer closed)	550 mm (21.7")
Depth (drawer open)	1100 mm (43.3")
Hight	400 mm (15.7")
Weight	56 Kg (123.5 lbs.)

Site Requirements

<u>Voltage (single-phase)</u>	<u>100-230 VAC</u>
Current	16-20 Amps
Frequency	50/60 Hz
Power	2,880-5,280 VA
<u>Operating Temperature</u>	15-30 (59-86) 0C (0F)
<u>Temperature Variation</u>	<u>±1 (±1.8) 0C (0F)</u>
Operating Humidity	20-90 %RH (non- <u>condensing</u>)

Curing Data

Maximum frame Dia.	12"
Exposure Area	400×400 mm
UV wavelength	365 nm

Nitrogen Kit (Optional)

Pressure	2-3 bar
Flow	0-25 LPM
Quick Inlet	8 mm (OD)
Fibration Level	<0.1 µm



- sales@adt-co.com
- adt-co.com



Frequently Asked Questions

Q: What is the purpose of the Emergency Stop button?

A: The Emergency Stop button is designed to immediately halt all system operations in case of an emergency or safety concern.

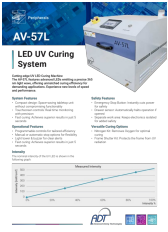
Q: How can I adjust the curing timer and process parameters?

A: The curing timer and process parameters can be adjusted through the user interface panel on the system. Refer to the user manual for detailed instructions on parameter settings.

Q: Is it necessary to use the optional Nitrogen Kit?

A: The Nitrogen Kit is optional and can be used for specific applications that require nitrogen-assisted curing. It is not mandatory for general curing operations.

Documents / Resources

 <p>AV-57L LED UV Curing System</p> <p>Key Features:</p> <ul style="list-style-type: none">High Power LED UV SourceAdvanced Temperature ControlLarge Capacity Curing ChamberEasy-to-Use InterfaceCompact Design <p>Technical Specifications:</p> <ul style="list-style-type: none">Power: 1500WWavelength: 365nmOutput Power: 150WTemperature Range: 0°C to 150°CChamber Size: 1000mm x 1000mm x 1000mm	<p>ADT AV-57L LED UV Curing Machine [pdf] Owner's Manual</p> <p>AV-57L, AV-57L LED UV Curing Machine, LED UV Curing Machine, UV Curing Machine, Curing Machine, Machine</p>
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References

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