Peripherals
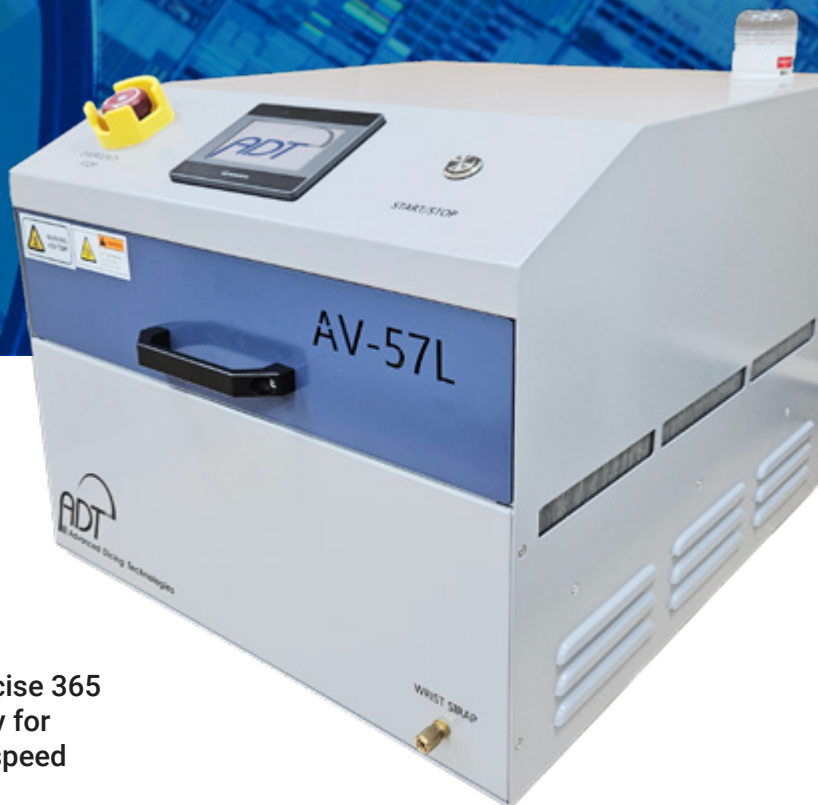
AV-57L

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.
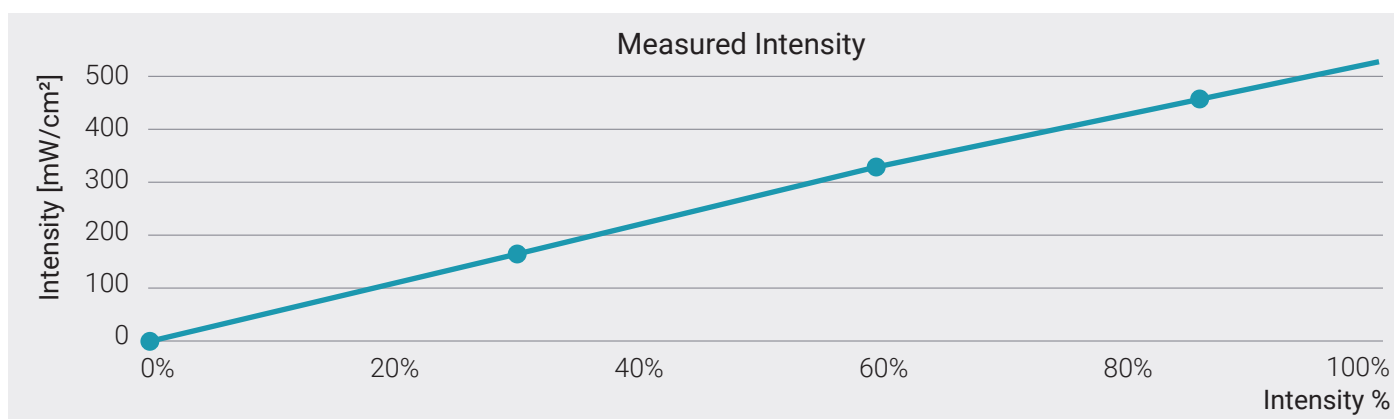
System Features

- 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 intencity of the UV LED is shown in the following graph:
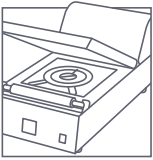
Safety Features

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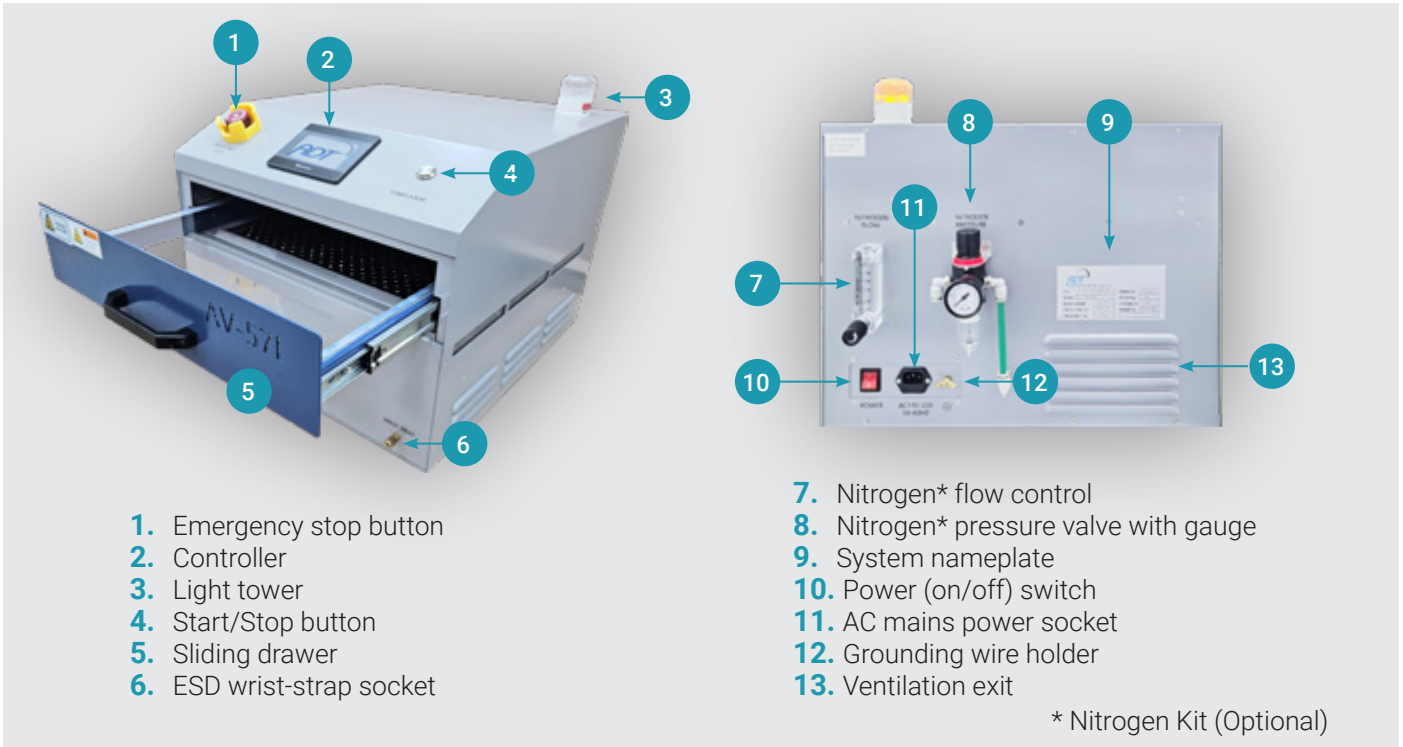
Versatile Curing Options

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

Measured Intensity — Intensity [mW/cm²] vs Intensity %

AV-57L LED UV Curing System

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

Dimentions

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

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

Curing Data

Maximum frame Dia.	12"
Exposure Area	400x400 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

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