The adphos aLITE® energy source (advanced Light Initiated Thermal Emission) takes heating, drying and curing to a new level.

Designed specifically for 3D printing and manufacturing applications, this compact heating module can be mounted nearly anywhere.

- A remote laser diode with PLC controller sends 50 Watts of 808 nm energy via light pipe right where you need it.
- Variable power can be focused between 1 mm to 10 mm in diameter with intelligent energy control to match your process.
- A separate low power LED is included to help position the aLITE® energy.
- Completely air-cooled. No costly water-water cooling required!

adphos aLITE®-3D applications include:

- Drying and sintering water- and, solvent-based inks for printing directly onto 3D shapes
- Melting of plastic or metal particles for 3D additive manufacturing processes
- Drying and sintering functional layers in 3D printing systems
- Thermal Processing (e.g. forming of plastics)

**Technical Data:**

**Dimensions:**

- Central Unit: L = 500 mm
  W = 180 mm
  H = 465 mm (w/feet)

- Focus Process Head: $\Phi_{\text{max}} = 57 \text{ mm}$
  Height$_{\text{max}}$: 150 mm
  Focus: 150 mm
  $\Phi_{\text{focus}}$: 1 mm
  (other focus possible)

- Light Pipe: Length: up to 5 m
  $\Phi_{\text{pipe}}$: 400 $\mu$m

- Power: 230 VAC, 4 A, 50/60 Hz

- aLITE®
  Wave Length: e.g. 808 nm
  (other wavelength possible)
  Power: 50 W (optical)
  Laser Class: 4

- Position-LED
  Wave Length: 650 nm
  Power: $\leq 5 \text{ mW}$
  Laser Class: 3R