

adphosLITE®-3D

Energy Focused to a Pinpoint

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: $\varnothing_{\text{max}} = 57 \text{ mm}$
Height_{max}: 150 mm
Focus: 150 mm
 $\varnothing_{\text{Focus}}$: 1 mm
(other focus possible)

Light Pipe: Length: up to 5 m
 $\varnothing_{\text{pipe}}$: 400 μm

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

