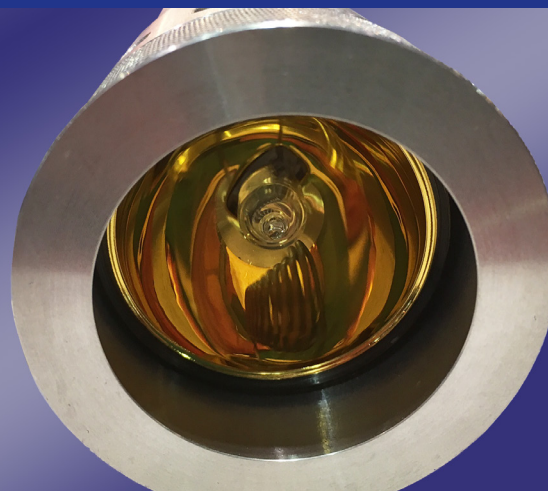


NIRDot® 3D-System



Efficient and Effective Design

The adphos NIRDot 3D-System is a focused, high energy-density tool that delivers near laser like performance at a fraction of the cost when compared to laser systems.

Designed specifically for 3-dimensional printing and spot focusing manufacturing applications, this compact heating module can be mounted nearly anywhere, including on automated robotic arms.

A power supply sends 150 Watts via our patented adphosNIR® emitter, where and when you need it most.

Variable power can be focused as small as 5mm in diameter at a high watt density (~ 8MW/m²) with an included light shield to reduce visible light.

An on-board fan can provide heated air to your drying process or be exhausted away for pure heating applications.

Applications

The applications for the new adphos NIRDot 3D-System include but are not limited to the following:

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

Specifications for NIRDot 3D-Systems:

Input Voltage:	88-264 VAC, 50/60 Hz
Power:	150W
Spot:	Ømin. 5mm (0.2 in) at 2mm (0.08 in) distance from heated opening
Coling system:	Air cooled with internal fan
Process Air:	Convertible between air blowing on heated area or away
On/Off:	Switch on electrical box
Power Supply:	Potentiometer on electrical box
Included:	Electrical box with 3m (10 ft) power cable and 3m (10 ft) module supply cable
Casing:	Aluminum
Dimensions:	Ø62mm (2.44 in) x 124mm (4.88in)

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