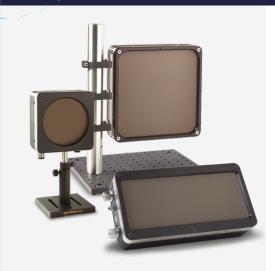


Custom sizes and shapes, up to 120 000 W upon request



KEY FEATURES

- > THE HIGHEST POWER HANDLING Custom models handle up to 120 000 W of continuous power
- > INFINITE CUSTOMIZATION CAPABILITIES
 - 1. Choose YOUR size
 - 2. Choose YOUR maximum power
 - 3. We will customize one just for you!
- COMPACT AND LIGHT WEIGHT Lighter and more compact than any other high power detector on the market, thanks to our unique design
- AVAILABLE WITH YAG AND CO, CALIBRATIONS All HP models can be calibrated at YAG and CO, wavelengths with a calibration uncertainty of $\pm 5\%$
- DIRECT USB CONNECTION TO A PC Each head comes with both a DB15 connector (for use with a Gentec-EO display device) and a USB2.0 output for direct connection to a PC. Other connectors available upon request
- TRACK WATER PARAMETERS Water flow and temperature are monitored in real time and displayed continuously
- HIGH POWER NIST-TRACEABLE CALIBRATION WITH A 5 KW FIBER LASER

OUTPUT OPTIONS

- **SMART DB15 CONNECTOR** Contains all the calibration data
- **USB PORT**
 - Connects directly to a PC
 - Included in all HP models

COMPATIBLE DISPLAYS & PC INTERFACES







MIRO ALTITUDE

MAESTRO

TUNER



UNO

ACCESSORIES







Extension cables (4, 15, 20 or 25 m)



(Included)



Pelican carrying case

1

Germany and Other Countries

Laser Components Germany GmbH Tel: +49 8142 2864-0 Fax: +49 8142 2864-11 info@lasercomponents.com www.lasercomponents.com

France

Laser Components S.A.S. Tel: +33 1 39 59 52 25 Fax: +33 1 39 59 53 50 info@lasercomponents.fr www.lasercomponents.fr

Nordic Countries

Laser Components Nordic AB Tel: +46 31 703 71 73 Fax: +46 31 703 71 01 info@lasercomponents.se www.lasercomponents.se





SUPER HP (NST* HP280A-30KW-HD **CUSTOMIZATION CAPABILITIES** MAX AVERAGE POWER 30 000 W 50 000 W Up to 120 000 W **EFFECTIVE APERTURE** 280 x 280 mm 100 mm Ø Up to 500 x 500 mm COOLING METHOD Water-cooled Water-cooled Water-cooled MEASUREMENT CAPABILITY Spectral range 0.19 - 20 µm 0.8 - 12 um 0.19 - 20 um Calibrated spectral range ^a 1.064 - 1.070 µm 1.030 - 1.080 µm 1.064 - 1.070 µm Noise equivalent power ^b ± 30 W ± 200 W Adapted to maximum power 1000 W 1000 W Minimum average power Adapted to maximum power Rise time (nominal) 25 s 80 s Back reflections < 2.5 % 10-15% Depends on the design Calibration uncertainty d ±5% ± 5 % Repeatability ±2% ± 2 % ± 2% Linearity with power ±2% ± 2 % ± 2% DAMAGE THRESHOLDS Maximum average power density 6 10 kW 2.5 kW/cm² 25 kW/cm² 2.5 kW/cm²

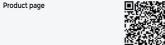
PHYSICAL CHARACTERISTICS			
Effective aperture	280 x 280 mm	100 mm Ø	Square apertures up to 400 x 400 mm Rectangular and round apertures also available
Absorber (high damage threshold)	HD	GD	HD
Cooling water			
Required cooling flow	0-30 kW: (15 - 18) LPM < ± 1 LPM/min ^f 0-10 kW: (12-15) LPM < ± 1 LPM/min ^f	(18 - 25) LPM < ± 1 LPM/min	Adapted to maximum power
Temperature range	15 - 25 °C	15 - 25 °C	15 - 25 °C
Rate of temperature change	<±3°C/min	< ± 1°C/min	< ± 3°C/min
Dimensions	314H x 324W x 89D mm	305H x 324W x 197D mm	
Weight (head only)	20 kg	60 kg	

11 kW/cm²

ORDERING INFORMATION

30 kW

Available output options	DB15 & USB	DB15 & USB	DB15 & USB
Compatible stand	STAND HP280A-30KW-HD	Ask	Ask







0.2 kW/cm²

* These products are custom-built. Contact us with your requirements for a version tailored to your needs.

0.2 kW/cm²

- a. Calibrations at 0.248 to 2.5 μm and 10.6 μm are available on special request. a. Calibrations at 0.24s to 2.5 µm and 10.6 µm are available on special request.

 b. Nominal value, actual value depends on electrical noise in the measurement system.

 c. For lower powers, call your Gentec-EO representative.

 d. At 1064 nm and 1070 nm.

 e. At 1064 nm, 1.07-1.08 µm and 10.6 µm.

 f. > 1min

Specifications are subject to change without notice

Germany and Other Countries Laser Components Germany GmbH Tel: +49 8142 2864-0

Fax: +49 8142 2864-11 info@lasercomponents.com www.lasercomponents.com

Laser Components S.A.S. Tel: +33 1 39 59 52 25 Fax: +33 1 39 59 53 50 info@lasercomponents.fr www.lasercomponents.fr

Nordic Countries

Laser Components Nordic AB Tel: +46 31 703 71 73 Fax: +46 31 703 71 01 info@lasercomponents.se www.lasercomponents.se