

2-Axis Deflection Unit

PSH-20-AW

- Additive Manufacturing
- Premium 2-Axis Scan Head
- Outstanding Low Drift
- Highest Repeatability
- Fast Marking Speed
- Laser Power < 2000 Watt



TECHNICAL SPECIFICATIONS:

PSH-20-AW			
Input Aperture	20 mm	Long-Term Drift (8h) ³	< 40 μ rad
Wavelength	1030-1090 nm	Zero Offset	< 5 mrad
Tracking error time	\leq 0.3 ms	Digital Interface	XY2-100 Protocol
Writing Speed ^{1 2}	450 cps	Ambient Temperature	+10 to +40 °C
Precision Marking Speed	< 1.8 m/s	Working Temperature	+ 15 to +35 °C
Positioning Speed ¹	< 8 m/s	Storage Temperature	-20 to +60 °C
Typical Deflection	\pm 0.418 rad	Humidity	\leq 80% Non-condensing
Resolution	5 μ rad	Voltage	\pm 15 V DC
Repeatability (RMS)	< 2 μ rad	Current	max. 5 A
Max. Gaindrift ³	10 ppm/K	Weight	Approx. 4.0 kg
Max. Offsetdrift ³	8 μ rad/K	Dimensions L x W x H	205 x 134 x 155 mm
		Cooling Method	Water

¹ F-Theta f=163 / field size 120 x 120 mm

² Single-strokefont / 1mm height

³ Drift per axis