

2-Axis Deflection Unit

PSH-14-AW

- Additive Manufacturing
- Premium 2-Axis Scan Head
- Outstanding Low Drift
- Highest Repeatability
- Fast Marking Speed
- Laser Power < 1000 Watt



TECHNICAL SPECIFICATIONS:

PSH-14-AW

Input Aperture	14 mm
Wavelength	1030-1090 nm
Tracking error time	≤ 0.19 ms
Writing Speed ^{1 2}	650 cps
Precision Marking Speed	< 2.5 m/s
Positioning Speed ¹	< 12 m/s
Typical Deflection	±0.418 rad
Resolution	5 μrad
Repeatability (RMS)	< 2 μrad
Max. Gaindrift ³	10 ppm/K
Max. Offsetdrift ³	8 μrad/K

Long-Term Drift (8h) ³	< 40 μrad
Zero Offset	< 5 mrad
Digital Interface	XY2-100 Protocol
Ambient Temperature	+10 to +40 °C
Working Temperature	+ 15 to +35 °C
Storage Temperature	-20 to +60 °C
Humidity	≤ 80% Non-condensing
Voltage	±15 V DC
Current	max. 5 A
Weight	Approx. 4.0 kg
Dimensions L x W x H	176 x 118 x 145 mm
Cooling Method	Water

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

² Single-strokefont / 1mm height

³ Drift per axis