

2-Axis Deflection Unit

PSH-30H-WA-2.1

- Premium 2-Axis Scan Head
- Outstanding Low Drift
- Highest Repeatability
- Fast Marking Speed
- Laser Power < 6000 Watt



TECHNICAL SPECIFICATIONS:

PSH-30H-WA-2.1

Input Aperture	30 mm
Wavelength	1030 – 1090, 9300, 10600 nm
Tracking error time	≤0.4 ms
Marking Speed ¹	< 1 m/s
Positioning Speed ¹	< 7 m/s
Typical Deflection	± 0.418 rad
Resolution	12 μrad
Repeatability (RMS)	< 2 μrad
Max. Gain drift ²	15 μrad/K
Max. Offset drift ²	10 μrad/K

Long-Term Drift (8h)	< 100 μrad
Zero Offset	< 5 mrad
Digital Interface	XY2-100 Protocol
Ambient Temperature	+10 to +40 °C
Storage Temperature	-20 to +60 °C
Humidity	≤ 80% Non-condensing
Voltage	±15 V DC
Current	max. 4 A
Weight	Approx. 8 kg
Dimensions L x W x H	218.5 x 180 x 165 mm
Cooling Method	Air Flush and Water

¹ F-Theta f=163 / field size 120 x 120 mm / 1030 - 1090 nm

² Drift per axis