

2-Axis Deflection Unit

PSH-30

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



TECHNICAL SPECIFICATIONS:

PSH-30

Input Aperture	30 mm
Wavelength	1030 - 1090, 9300, 10600 nm
Tracking error time	≤0.4 ms
Writing 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	+15 to +35 °C
Storage Temperature	-20 to +60 °C
Humidity	≤ 80% Non-condensing
Voltage	±15 V DC
Current	max. 4 A
Weight	Approx. 6.7 kg
Dimensions L x W x H	206.9 x 152 x 180 mm
Cooling Method	Passive

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

² Drift per axis