

2-Axis Deflection Unit

PSH-20

- Premium 2-Axis Scan Head
- Outstanding Low Drift
- Highest Repeatability
- Fast Marking Speed
- Laser Power < 500 Watt



TECHNICAL SPECIFICATIONS:

PSH-20

Input Aperture	20 mm
Wavelength	1064, 9300, 10600 nm
Tracking error time	≤ 0.28 ms
Marking Speed ¹	< 2 m/s
Positioning Speed ¹	< 9 m/s
Typical Deflection	± 0.418 rad
Resolution	12 μrad
Repeatability (RMS)	< 2 μrad
Max. Gain drift ²	10 μrad/K
Max. Offset drift ²	8 μrad/K

Long-Term Drift (8h)	< 90 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. 5.3 kg
Dimensions L x W x H	176 x 120 x 131 mm
Cooling Method	Passive

¹ F-Theta f=163 / field size 120 x 120 mm / 1064 nm

² Drift per axis