

3-Axis Deflection Unit

VJ-3D10

- High Accuracy
- Compact Size
- Fast Processing
- Very Competitive Price



TECHNICAL SPECIFICATIONS:

VJ-3D10

Max. Input Aperture	8 mm
Magnification	1.2x
Wavelength	355, 532, 1064 nm
Tracking error time	0.22 ms
Writing Speed ^{1 2}	> 500 cps
Positioning Speed ¹	> 15 m/s
Typical Deflection	± 0.393 rad
Resolution	12 µrad
Repeatability (RMS)	< 22 µrad
Max. Gain drift ³	80 ppm/K
Max. Offset drift ³	30 µrad/K
Long-Term Drift (8h) ³⁴	< 300 µrad
Zero Offset	< 5 mrad

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

² Single-stroke font / 1 mm height

Digital Interface	XY2-100 Protocol
Focus Shift	±20 - ±30 mm
Field Size	70x70 - 300x300 mm
Ambient Temperature	+10 to +40 °C
Storage Temperature	-5 to +60 °C
Humidity	≤ 80% Non-condensing
Voltage X/Y-Axis	±15 V DC
Current X/Y-Axis	max. 5A
Voltage Z-Axis	±24 V DC
Current Z-Axis	max. 6A
Weight	Approx. 7.0 kg
Dimensions L x W x H	311 x 150 x 164 mm

³ Drift per axis

⁴ After warming-up, variation of ambient temperature <1K