

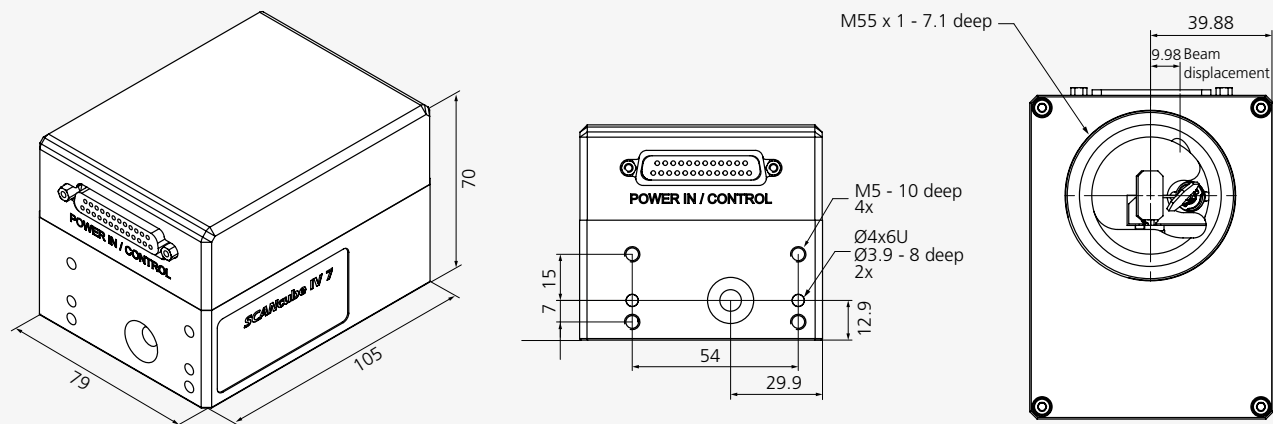


SCANcube IV 7

High Speed Scanning in Pocket Size

- Highest dynamics: 1840 cps
- Application-specific tunings
- Compatible with laser powers up to 300 W

Preliminary Specifications



all dimensions in mm

Dynamics

Tuning	Sharp Edge
Tracking Error [ms]	0.02
Speed ⁽¹⁾	
Positioning speed [m/s]	24
Marking speed [m/s]	4.8
Writing speed ⁽²⁾	
Good writing quality [cps]	1840
High writing quality [cps]	1300
Step Response Time ⁽³⁾	
10 mrad [ms]	0.1
100 mrad [ms]	0.7
Mechanics	
Dimensions (L x W x H) [mm ³]	105 x 79 x 70
Beam displacement [mm]	9.98
Repeatability (RMS) [μrad]	< 2
Nonlinearity ⁽⁴⁾	< 0.7 mrad

Further Specifications

Optical Performance	
Typical scan angle [rad]	± 0.35
Gain error [mrad]	< 5
Zero offset [mrad]	< 5
Power Requirements	30 V, max. 1.1 A
Digital Interface	SL2-100 or XY2-100
Weight [kg]	approx. 0.9

(all angles are in optical degrees)

- ⁽¹⁾ with F-Theta objective, f = 160 mm
⁽²⁾ single-stroke characters of 1 mm height
⁽³⁾ in tolerance band ±450 μrad
⁽⁴⁾ related to 0.77 rad