

NEW



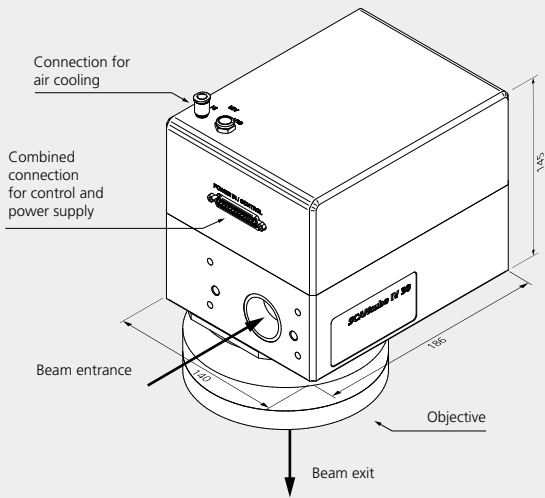
SCANcube IV 30: Compact and Versatile

The SCANcube series is now also available with 30 mm aperture

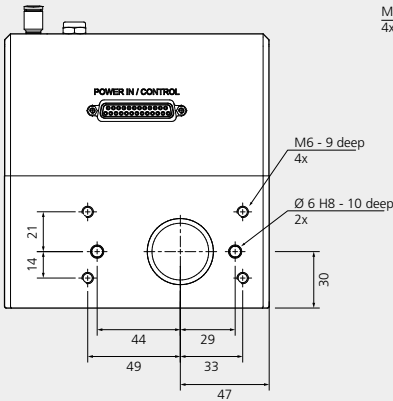
- Read back functionality for position, temperature, and status signals
- Choice of different tunings
- Power compatibility up to 5 kW

Technical Drawings

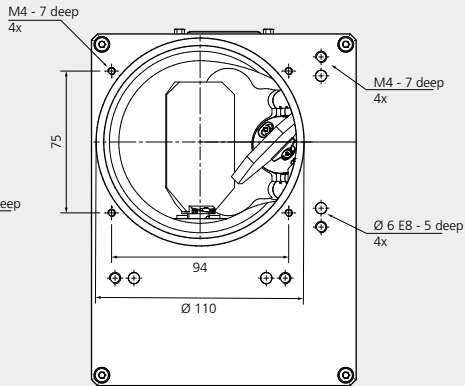
Layout and connections



Beam entrance side



Beam exit side



Preliminary Specifications

Dynamics

Tuning (Sharp edge and line scan tunings on request)	Vector
Tracking error [ms]	0.37
Maximum speed	
[rad/s]	44.0
[m/s] ⁽¹⁾	7.0
Step response time ⁽²⁾	
10 mrad opt. [ms]	0.81
100 mrad opt. [ms]	2.86

⁽¹⁾ with F-Theta objective, f = 160 mm

⁽²⁾ in tolerance band $\pm 450 \mu\text{rad}$

(all angles are in optical degrees)

Precision & Stability

Repeatability (RMS) [μrad]	< 2
Positioning resolution [bit] ⁽³⁾	20
Nonlinearity [mrad] ⁽⁴⁾	< 0.7
Temperature drift	
Offset [$\mu\text{rad/K}$]	< 20
Gain [ppm/K]	< 35
Long-term drift	
8-h-drift (after 30 min warm-up) ⁽⁵⁾	
Offset [μrad]	< 50
Gain [ppm]	< 50

⁽³⁾ only together with SL2-100 interface

⁽⁴⁾ related to 0.77 rad

⁽⁵⁾ at constant ambient temperature and load

Further Specifications

Optical performance	
Typical scan angle [rad]	± 0.35
Gain error [mrad]	< 5
Zero offset [mrad]	< 5
Power requirements (RMS)	30 V DC, max. 3.0 A
Interfaces	SL2-100 & XY2-100
Mechanics	
Dimensions (L x W x H) [mm ³]	185 x 140 x 145
Beam displacement [mm]	35.54
Weight [kg]	approx. 5.4