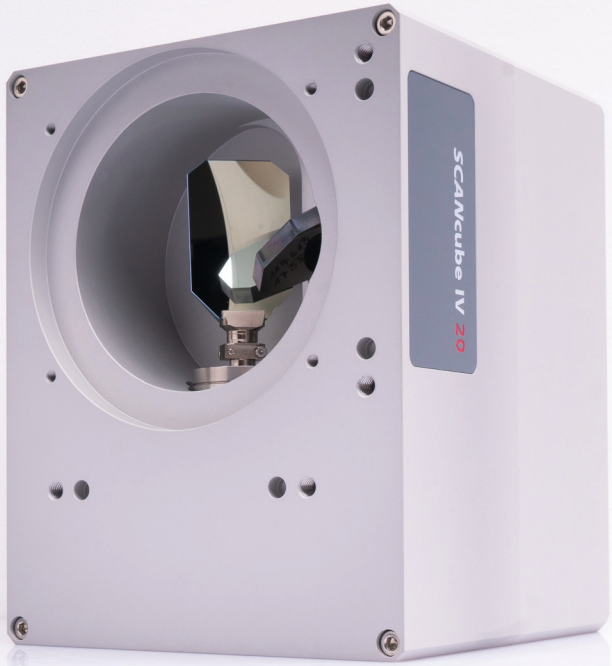
NEW!



*SCAN*cube IV 20: Compact and Versatile

The *SCAN*cube series is now also available with 20 mm aperture

- Choice of different tunings
- Read back functionality for position, temperature, and status signals
- Automatic detection of the data transfer protocol

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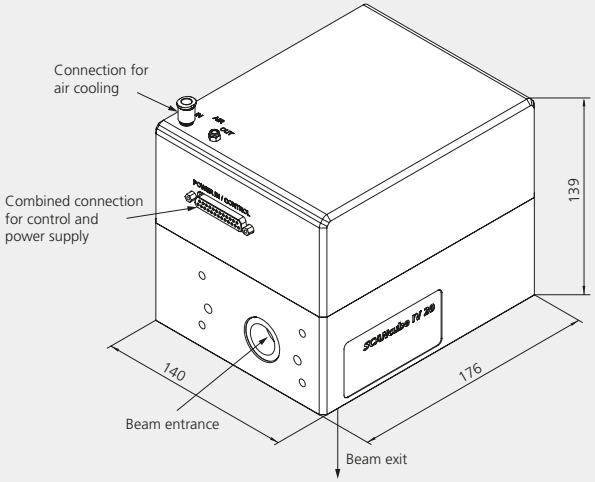
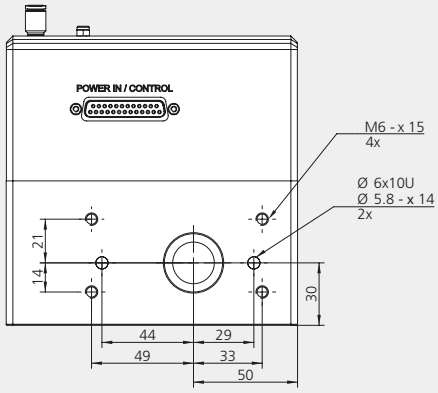
Technical Drawings

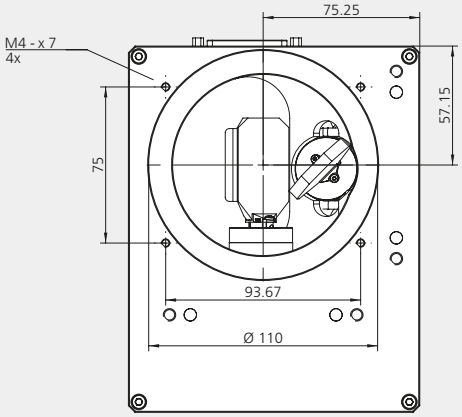
Layout and connections



Beam entrance side



Beam exit side



Preliminary Specifications

Dynamics

Tuning (Sharp edge and line scan tunings on request)	Vector
Tracking error [ms]	0.25
Maximum speed [rad/s]	80
[m/s] (1)	12.8

Precision & Stability

Repeatability (RMS) [µrad]	< 2
Positioning resolution [bit] (2)	18
Nonlinearity [mrad] (3)	< 0.9
Temperature drift	
Offset [µrad/K]	20
Gain [ppm/K]	20
Long-term drift	
8-h-drift (after 30 min warm-up) (4)	
Offset [µrad]	100
Gain [ppm]	100
24-h-drift (after 3 h warm-up) (4)	
Offset [µrad]	100
Gain [ppm]	100

Further Specifications

Optical value	
Typical scan angle [rad]	± 0.35
Deviation of the scan angle [mrad]	< 5
Deviation from the zero position [mrad]	< 5
Power requirements (RMS)	30 V DC, max. 2.6 A
Interfaces	SL2-100 & XY2-100
Weight [kg]	approx. 5.5

(1) with F-Theta objective, f = 160 mm
(2) only together with SL2-100 interface
(3) related to 0.77 rad
(4) at constant ambient temperature and load
(all angles are in optical degrees)

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