NEW

basiCube 20
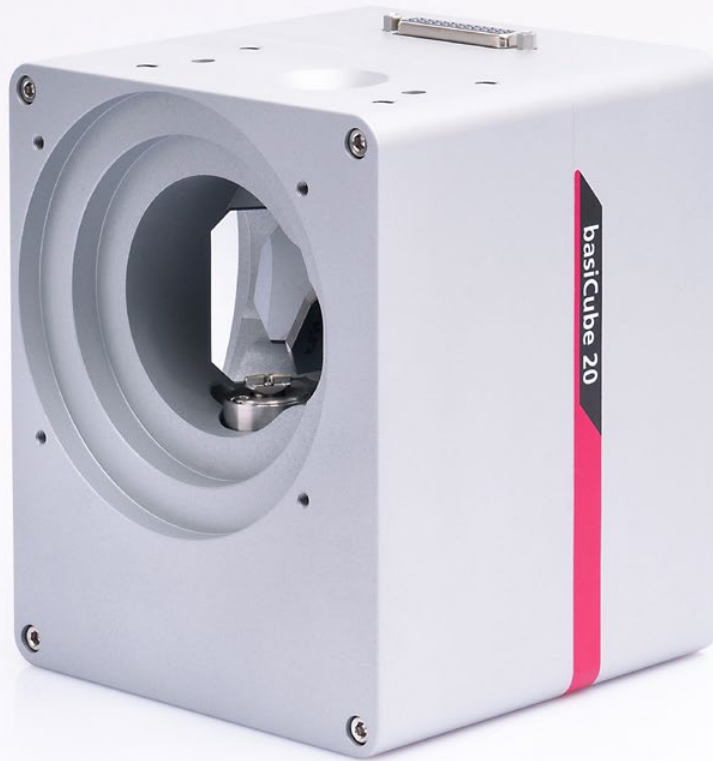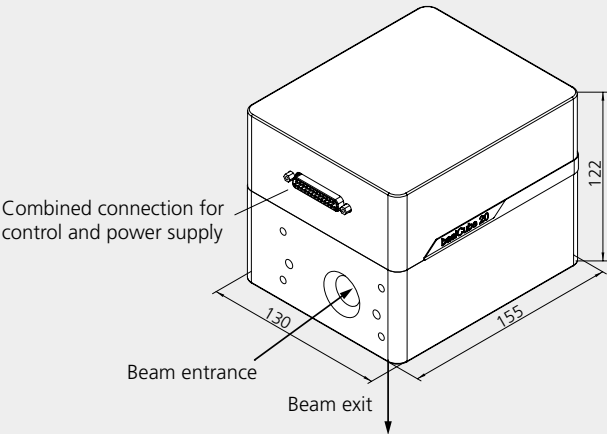
basiCube 20: First Class Performance, Economy Price

Our entry-level scan head is now available with 20 mm aperture
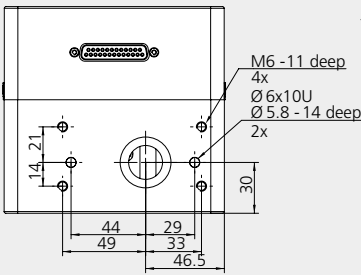
- Ultra compact size
- Excellent price–performance ratio
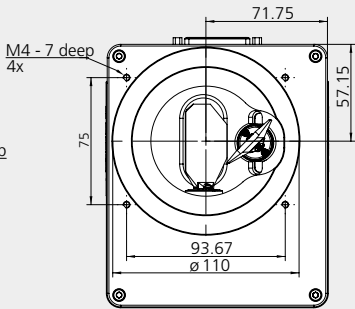- Engineered and manufactured in Germany

Layout and connections   **Beam entrance side**   **Beam exit side**

Combined connection for control and power supply

Beam entrance

Beam exit

130 · 155 · 122

M6 -11 deep
4x
Ø 6x10U
Ø 5.8 - 14 deep
2x

14 · 21 · 30

44 · 49 · 29 · 33 · 46.5

M4 - 7 deep
4x

71.75 · 57.15 · 75 · 93.67 · ø 110

Preliminary Specifications

Dynamics

Tuning	Vector
Tracking error [ms]	0.25
Maximum speed	
[rad/s]	50
[m/s] [1]	8

Precision & Stability

Repeatability (RMS) [µrad]	< 2
Positioning resolution [bit] [2]	20
Nonlinearity [mrad] [3]	< 0.9
Temperature drift	
Offset [µrad/K]	< 30
Gain [ppm/K]	< 160
Long-term drift	
8-h-drift (after 30 min warm-up) [4]	
Offset [µrad]	< 100
Gain [ppm]	< 250

Further Specifications

Optical performance	
Typical scan angle [rad]	± 0.35
Gain error [mrad]	< 5
Zero offset [mrad]	< 5
Power requirements (RMS)	available variants: 24 V DC, 30 V DC; max. 2.6 A each
Interfaces	SL2-100 or XY2-100
Weight [kg]	3.7

[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)

SCANLAB innovators for industry

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