

compact and economic

SCANLAB's basiCube **scan heads** are the ideal entry-level **2D scan systems** for deflecting and positioning laser beams in the working plane.

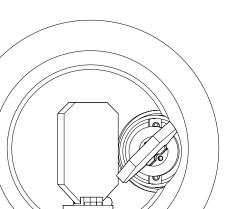
Key Features

- Compact & light-weight design
- Very fast writing speed
- Excellent price/performance ratio

The basiCube scan head series offers superior cost effectiveness and is optimized for coding and marking.

Typical Applications

- Marking
- Processing-on-the-fly





Specifications

Dynamics

	basiCube 10
Aperture [mm]	10
Tracking error [ms]	0.14
Typical speeds ⁽¹⁾	
Marking speed [m/s]	2.5
Positioning speed [m/s]	12.0
Writing speed (2)	
Good writing quality [cps]	800
High writing quality [cps]	570
Step response time (3)	
1% of full scale [ms]	0.35
10% of full scale [ms]	1.0

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

(2) single-stroke characters of 1 mm heigth

(3) settling to 1/1000 of full scale

Further Specifications

	basiCube
Optical performance	
Typical scan angle [rad]	±0.35
Gain error [mrad]	< 5
Zero offset [mrad]	< 5
Power requirements	±15 V DC,
	max. 3 A each
Interface (digital)	SL2-100,
	XY2-100
Operating temperature [°C]	25 ± 10

(all angles are in optical degrees)

Precision & Stability

asiCube
2.0
5
3.5 mrad/44° ⁽⁶⁾
30
160
100
250

 $^{\scriptscriptstyle (4)}$ based on the full angle range (e.g. positioning resolution

11 µrad for angle range ±0.36 rad)

 $^{(5)}$ at constant ambient temperature and load $^{(6)}\,44^\circ$ = 0.768 rad

Options & Variants

Extensions

• varioSCAN: Extension into a 3-axis scan system

Optics

- Coatings for the following wavelengths: 355 nm, 532 nm, 1064 nm, 10600 nm
- Suitable objectives available for various image fields and focal lengths

Control Boards

• RTC4 (PCIe, Ethernet) and RTC5

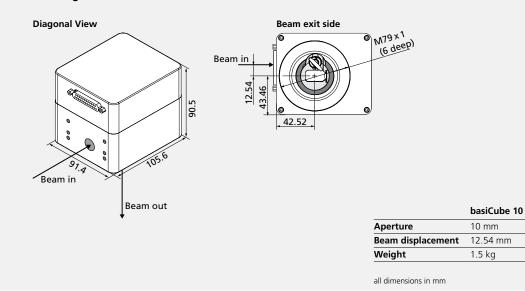
Software

- correXion pro: System-specific customizing of correction files
- Flexible calibration solutions: correXion pro, CALsheet



Google Play

App Store



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