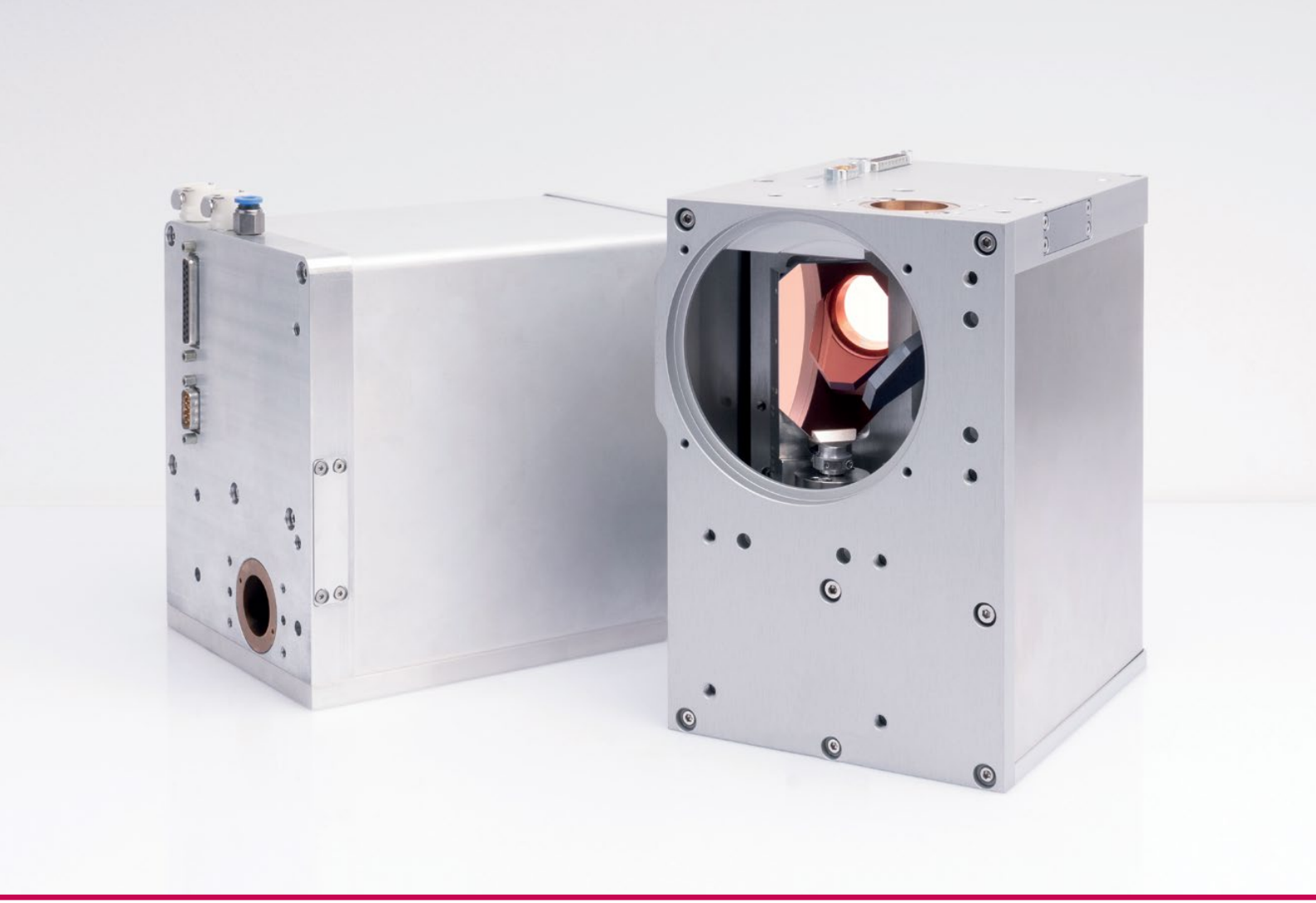


hurry*SCAN*

SCANLAB
innovators for industry

Optics

Scan mirrors and objectives with optimized mounts are available for all typical laser types and working fields.

Cooling

The hurry*SCAN* 20 and 30 scan heads provide water-cooling connections for the entrance aperture, electronics and galvanometer scanners, along with air-cooling of the deflection mirrors. This ensures constant working conditions and excellent long-term stability, thus guaranteeing reliable operation even in high-laser-power applications.

Options

- vario*SCAN* II: upgrade to a 3-axis scan system
- Available as a scan module without housing (except hurry*SCAN* 30)
- Water and air cooling (standard for hurry*SCAN*20 and 30)
- Camera adapter for optical process monitoring

Control

All scan heads of these series are equipped with either analog or digital standard interfaces and are easily controlled via SCANLAB's RTC control boards.

Attachment Provisions

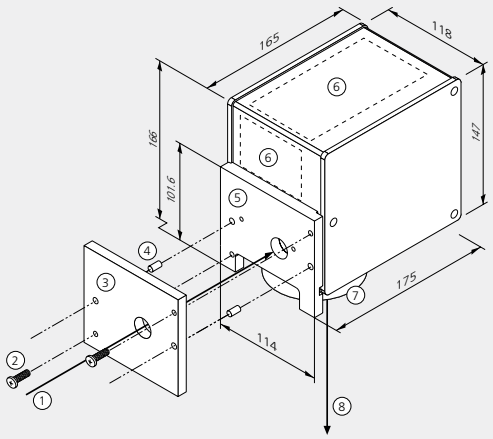
Threaded and non-threaded holes at the housing's beam entrance side of hurry*SCAN* 20 and 30 facilitate mounting of the scan head and installation of fiber optic outputs.

On the beam exit side, threaded holes are available for attaching add-on components such as cross jets, illumination, distance sensors or thermal shields.

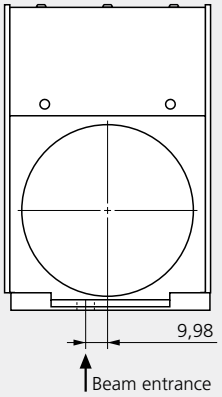
Quality

The high quality of SCANLAB's scan heads is the result of years of experience in the development and manufacture of galvanometer scanners and scan systems. In addition, every scan system must first pass the *SCAN*check burn-in test before it is released for shipment to the customer.

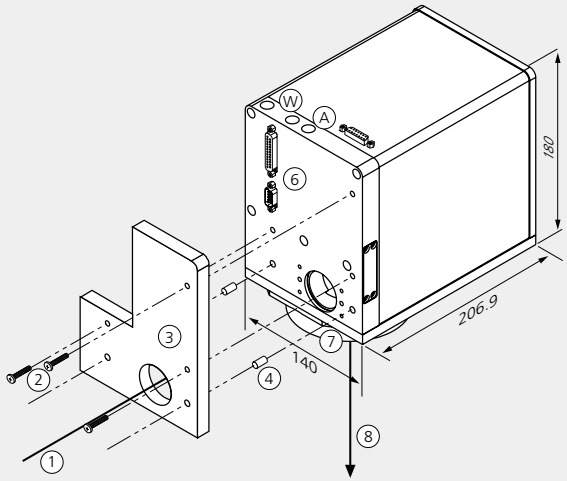
hurry*SCAN* II 7



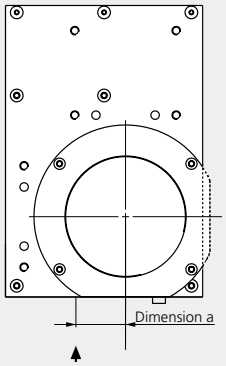
Beam exit side
with beam displacement



hurry*SCAN* 20
hurry*SCAN* 30



Beam exit side
with beam displacement



Dimensions	hurry*SCAN* 20	hurry*SCAN* 30
Aperture	20 mm	30 mm
Beam displacement (Dimension a)	25.25 mm	35.53 mm

all dimensions in mm

Legend

1 Beam entrance
2 Mounting screws (M6 threads)(*)
3 Flange(*)
4 Alignment pins (6_{h6})(*)
5 Scan head mounting bracket
6 Electrical connections
7 Objective
8 Beam exit
A Connection for cooling air
W Connections for cooling water

(*) not included

Technical Specifications

Type-Dependent Specifications	hurry*SCAN*II	hurry*SCAN*	
Aperture [mm]	7	20	30
Tracking error [ms]	0.11	0.35	0.55
Step response time (1)			
1% of full scale [ms]	0.23	0.80	1.20
10% of full scale [ms]	-	2.50	4.50
Typical speeds (2)			
Marking speed [m/s]	3.5	1.0	0.7
Positioning speed [m/s]	15.0	6.0	3.0
Writing speed			
Good writing quality [cps]	1100	320	220
High writing quality [cps]	800	210	150
Long-term drift (8-h-drift) [mrad]	< 0.3 (3)	< 0.6 (4)	< 0.6 (4)
Weight [kg] (without objective)	approx. 3 (5)	approx. 5.8	approx. 5.8

(all angles are in optical degrees)

(1) settling to 1/1000 of full scale
(2) with F-Theta objective, f = 160 mm respectively f = 163 mm (hurry*SCAN* 20 und 30)
(3) at constant ambient conditions, plus offset drift < 30 µrad/K and gain drift < 100 ppm/K
(4) after warm-up
(5) with optional water cooling up to 4.7 kg

Common Specifications

Repeatability (RMS) [µrad]	< 2
Positioning resolution [bit]	18 (6)
Optical performance	
Typical scan angle [rad]	±0,35
Gain error [mrad]	< 5
Zero offset [mrad]	< 5
Orthogonality error [mrad]	< 1,5
Nonlinearity [mrad]	< 3.5 (7)
Power requirements	±(15+1.5) V DC, max. 3 A (max. 6 A for hurry*SCAN*20 and 30)
Input signals	
Digital version	SL2-100 or XY2-100
Analog version	±4.8 V;
Operating temperature [°C]	25 °C ± 10 °C
Cooling options	water cooling, air cooling

(all angles are in optical degrees)

(6) based on the full angle range (e.g. positioning resolution 2.8 µrad for angle range ±0.36 rad), resolutions better than 16 bit (11 µrad) only together with SL2-100 interface
(7) related to 0.77 rad

11/2026 Information is subject to change without notice.
Product photos are non-binding and may show customized features.

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