

SMARTTRACK3

Plug-and-play tracking for small volumes

The SMARTTRACK3 is a compact tracking system designed for small volumes. Two cameras and a controller are integrated into a single housing. Pre-calibrated on delivery, the system is ready for immediate use. The optional SMARTTRACK3-IF version is designed for operation under daylight conditions, particularly for in-car tracking.



Technical Specifications

Parameter	Specification
Sensor type	CMOS, global shutter
Sensor resolution	1280 x 1024 pixels, 1.3 MP
Adjustable frame rate	up to 240 Hz
Minimum camera latency	6 ms
Image processing	integrated
IR source	high-power LEDs, 850 nm, adjustable in intensity (exempt group according to IEC 62471-1)
IR filter, standard version	long-pass filter
IR filter, IF version	narrow band-pass filter for improved suppression of stray light and unwanted wavelengths; out-of-band suppression at least 10 times higher than with the standard version; reduced tracking range
Adjustable camera parameters (IF-Version only)	Exposure time and marker-detection threshold adjustable to increase passive-marker detection range under favorable conditions or improve robustness against ambient light and unwanted reflections.
Typical passive-marker detection range	3.5 m ¹
Status indicator	2 status LEDs; brightness adjustable down to complete deactivation
Data interface and power supply	Gigabit Ethernet with PoE according to IEEE 802.3af-2003; cable length up to 100 m using CAT5 or higher
Synchronization in / out	1x BNC: Video Signal (75 Ω), TTL, LVTTTL (in / out not simultaneously)
Peripherals	1 x USB 2.0 (e.g. Radio Transceiver2/3, service access)
Mounting	ART D2 ceiling mount; 2 x 1/4"-20 UNC mounting threads via adapter
Cooling	passive, fanless
Operating temperature	0 - 35°C
Relative humidity	5 - 85% (non-condensing)
Max. power consumption	12 W
Nominal dimensions, W x H x D	381 x 54 x 93 mm
Weight	approx. 1.5 kg, including lenses, excluding mounting hardware

¹ measured at 180 Hz with an SMARTTRACK3 equipped with 2.86 mm lenses, using a 12.7 mm passive marker centred in the field of view and default settings

Camera Configuration

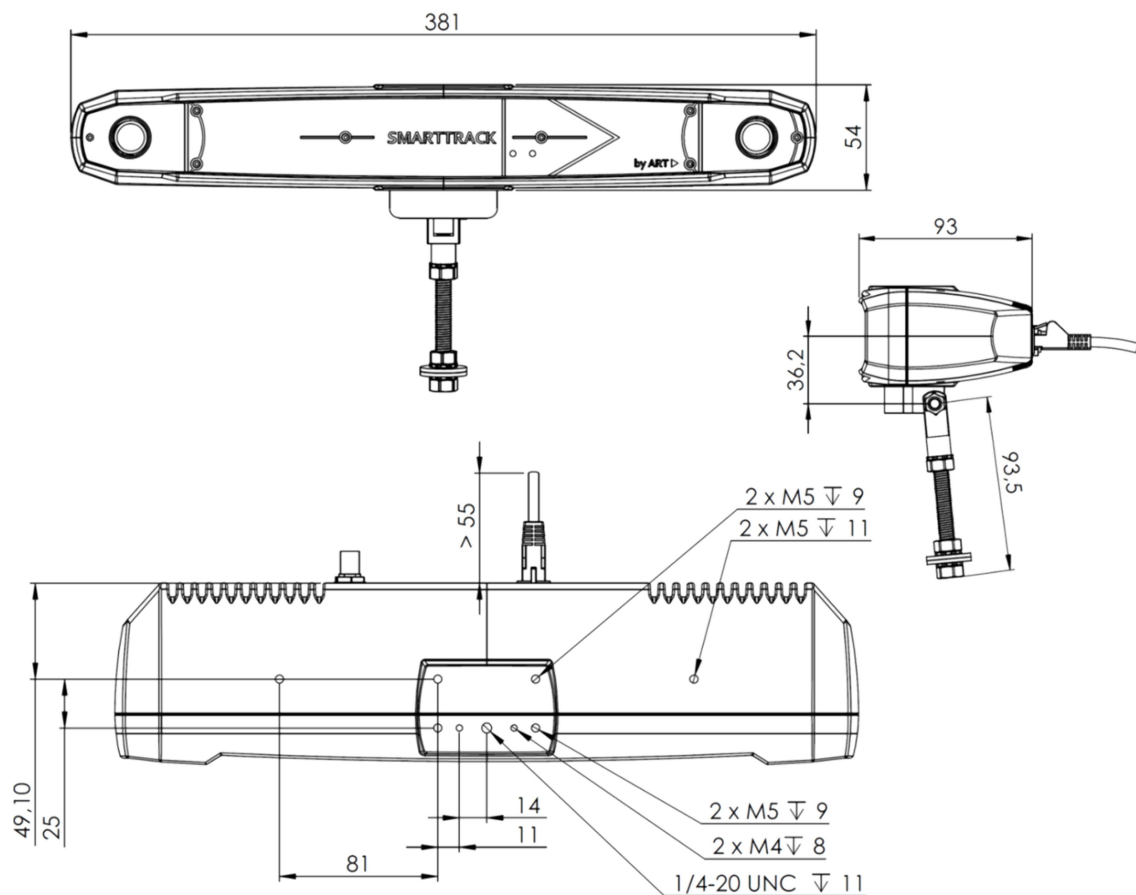
Typical camera operating modes		180 Hz mode	240 Hz mode
Available lens options	Sensor resolution (pixels)	1280 x 1024	1280 x 800
2.86 mm	Field of view H x V (°)	135 x 102	135 x 78
3.50 mm		83 x 70	83 x 56
System latency with 4 targets [ms]		9	6

Certifications

- CE
- FCC Part 15 Subpart B, Class B
- TÜV SÜD NRTL

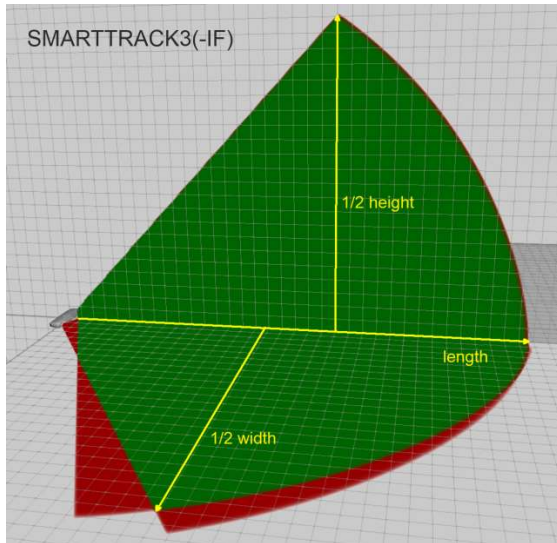
Technical Drawing

all dimensions shown are nominal in [mm] unless otherwise specified



Tracking Area

all dimensions shown are nominal in [m] unless otherwise specified



Tracking Area	lens (mm)	length (m)	½ width (m)	½ height (m)
SMARTTRACK3	2.86	0.3 - 3.5	3.0	1.8
SMARTTRACK3-IF	2.86	0.3 - 2.5	1.9	1.0