

Real-time tracking within large volumes

The PST Iris series has the largest tracking range of the PST tracking family. PST Iris is the ideal solution for tracking objects in larger working areas.

It is also a good choice for situations where the PST can not be positioned close to the tracking target. It is ideal for use in measurement tasks, monitoring a working environment or larger simulation environments.

- Calibration-free bar-tracker
- Tracking distance 50 cm 7 m
- Field of view 65° (horizontal), 45° (vertical)
- · Connect more than 1 tracker
- Maximum frame rate 120 Hz (Adjustable)
- External Synchronization via trigger IO

Tochnical data

Number of targets

Technical data	
Performance	
Accuracy Position	Position: < 0.5 mm RMSE / Orientation: < 1 deg RMSE
Latency	15-25 ms (depending on shutter time and filter settings)
Tracking distance	50 cm – 5 m, up to 7 m
Field of view	60° (horizontal), 45° (vertical)
Refresh rate	120 Hz, adjustable to 30, 60, 120 Hz
Intended use	Recommended for tracking in front of screens > than 55", powerwalls, tracking areas > 1.5 m
Usability	
Set up	Plug and play
Calibration	Pre-calibrated unit
Origin definition	One click process – dedicated tool included
Units needed for 6 DoF tracking	One, each PST Iris is a full 6 DoF motion tracker
Expandable tracking area	Expandable, multiple trackers can be connected to expand the tracking area
Aligning units	Easy routine in seconds
Ambient Conditions	Normal indoor lighting conditions
Illumination	Integrated IR LED illumination (wavelength 850 nm). Flash illumination fully adjustable in PST Software Suite 5
Operating Temperature	15 - 35 deg. C
Devices and Markers	

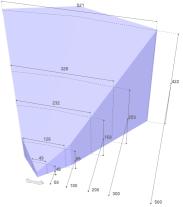
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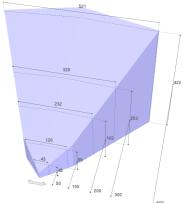


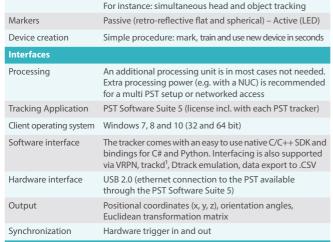


Measurement Area Configurations

The measurement volume is the area in which marked devices can be tracked. The distances in the images below are expressed in centimetres.







At least 15 independent 6DoF bodies.

Hardware	
Weight	Approx. 1.2 kg
Size	50.5 x 6 x 9.5 cm (W x H x D)
Mounting	1/4"-20 UNC tripod mounting point
Power supply	Output 9 V, 40 W. Input 100-240 V, 50-60 Hz

1. trackd is a trademark of Mechdyne, Marshalltown, IA, USA.

Max. 12 W

Power consumption

