pst *pico*

User interaction tracking when small size matters

PST Pico, the smallest member of the PST tracking family. With the size of about a pair of glasses it fits almost anywhere.

PST Pico is the ideal user interaction tracker to be placed on top of a monitor, in a small simulator or any installment where tracking needs to be integrated at very close range.

- Calibration-free user interaction tracker
- Tracking distance 5 cm - 1.5 m
- Field of view 110° (Horizontal), 100° (Vertical)
- Adjustable infrared flash and frame rate of up to 50 Hz
- Available in aluminium and black

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Technical data

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Specifications

Performance	
Accuracy Position	N/A
Latency	N/A
Tracking distance	5 cm up to 1.5 m
Field of view	110° (Horizontal), 100° (Vertical)
Refresh rate	Up to 50 Hz
Intended use	User interaction tracking in small, compact spaces (e.g. simulators, desktop)

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 Pico is a full 6 DoF motion tracker
Expandable tracking area	N/A
Aligning units	N/A
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	
Number of targets	At least 15 independent 6DoF bodies. For instance: simultaneous head and object tracking
Markers	Passive (retro-reflective flat and spherical) - Active (LED)
Device creation	Simple procedure: mark, train and use new device in seconds

Interfaces	
Processing	N/A
Tracking Application	PST Software Suite 5 (license incl. with each PST tracker)
Client operating system	Windows 7, 8 and 10 (32 and 64 bit) and Linux (64 bit)
Software interface	The tracker comes with an easy to use native C/C++ SDK and bindings for C# and Python. Interfacing is also supported via VRPN, trackd[1], Dtrack emulation, data export to .CSV
Hardware interface	Requires two USB 3 ports each with full bandwidth and capable of providing 2.7 Watts min. and 5 Watts max. (ethernet connection to the PST available through the PST Software Suite 5)
Output	Positional coordinates(x, y, z), orientation angles, Euclidean transformation matrix
Synchronization	N/A

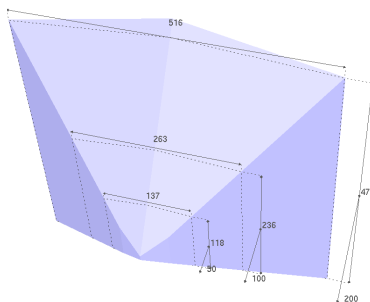| Hardware	
Weight	Approx. 0.5 kg
Size	15 x 4 x 4 cm (W x H x D)
Mounting	1/4"-20 UNC tripod mounting point
Power supply	Output 5 V, 12 W. Input 100-240 V, 50-60 Hz + USB power
Power consumption	Max. 15W

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

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.

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