

# Helmet Tracker



**Optical 470nm LED**  
**No Field Calibration**  
**6 DOF Streaming Output**  
**Hardware Independent**  
**Single Sensor Tracking**  
**Real Time Low Latency**



SPICA Helmet Tracker is a variable wavelength ( UV - IR ) optical real time 6 DOF head tracking system for dynamic and moving environments, impervious to all external G-forces and designed to provide external devices with spatial data to recreate 3D virtual reality environments.

The Spica HT system is automatically calibrated in less than a second with minimal user input, and is only required if any of the imaging sensor optics have been changed.

Sensor movement does not mandate recalibration and the system continues to track even while the sensor is moving.

System provides a 6DOF real time data stream with a single sensor from 120 to 500 Hz depending on sensor type, and tracking data can be provided within a full  $4\pi$  steradians spatial envelope.

COTS hardware and proprietary lens distortion correction algorithms are used for maximum accuracy and affordability. Dual sensor systems provide full redundancy and remains functional even while exposed to strong external sunlight conditions.

Tracking algorithms are available for licensing and are portable to most hardware platforms.

Spica Technology Corporation's Helmet Tracker is the most advanced optical head tracking tool available, and is highly customizable to fit your requirements. Please contact us for more detailed information



<http://www.spicatek.com>

[spicatek@spicatek.com](mailto:spicatek@spicatek.com)

3400 Kehala Dr., Kihei

HI 96753. Phone (808) 879.0343