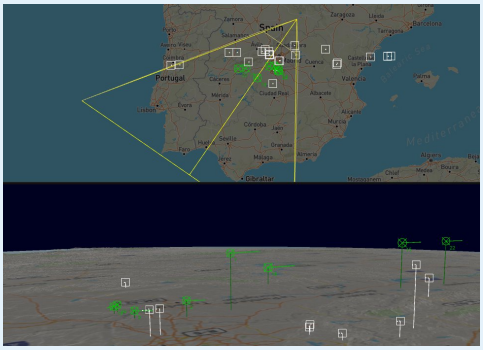
SPx Viewer-3D



Features:

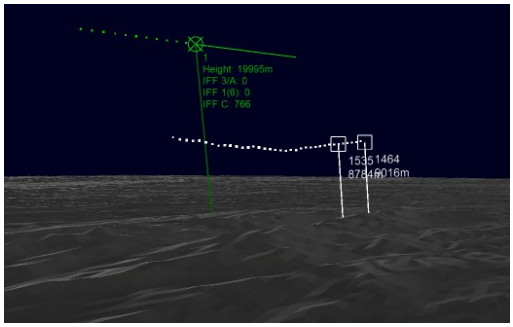
- Windows or Linux support
- Underlay map display
- Terrain display
- SPx input
- ASTERIX input
- AIS input
- ADS-B input
- Tracks symbology for primary, secondary and fused tracks, AIS and ADS-B tracks
- Plan-Position Indicator (PPI) view
- Range-Height Indicator (RHI) view
- 3D view
- Track table
- Track monitor with history graph display
- RHI and 3D position information shown on PPI view
- Programmable track source colours
- Follow or view from selected track in 3D view

Benefits:

- Simple-to-use, multi-view track display
- Works with a wide range of track formats
- Extensible to other track formats
- Intuitive user interface

SPx Viewer-3D is a software application for Windows or Linux that provides a 3D visualisation of radar track reports arriving in SPx or ASTERIX format, as well as AIS and ADS-B messages. The software provides 2D PPI and RHI views and also a 3D view of track reports. The user may manipulate the viewpoint to observe the tracks and history trails from any angle.

SPx Viewer-3D receives track reports over a network interface and displays the track symbol as an overlay to a map or rendered terrain. Track history is shown as a sequence of trail dots, a track vector shows the estimated direction and speed of travel of the track and optional display of additional track details, such as track name and height. A typical application of the viewer is to show radar tracks from 2D or 3D radars, along with AIS and ADS-B information.

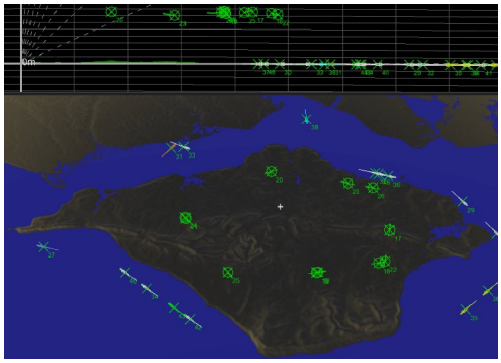


Input Tracks

Track input formats and sources include SPx, ASTERIX, AIS and ADS-B. SPx Viewer-3D supports multiple sources of the same track type. Each track source has a unique IP address and port and any permutation and combination of supported radar track sources can be displayed; for example SPx track reports from a primary radar video, SPx track reports from a secondary IFF radar video, and ADS-B messages. Proprietary and legacy track input formats, such as NMEA, YLC and GeoJSON, may be supported via Cambridge Pixel's SPx Track Manager product.

Visualisation

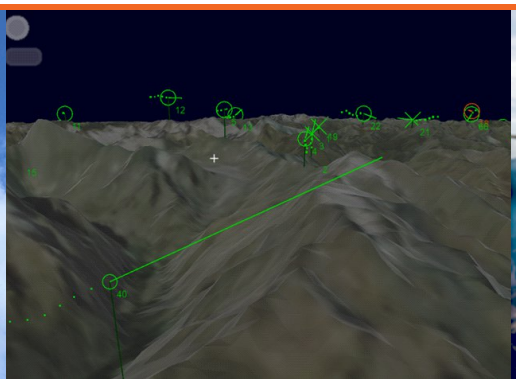
On Windows, SPx Viewer-3D is a standard Windows application and on Linux, the application is a server with a browser-based GUI. The application provides an intuitive display of the tracks and local terrain, allowing the user to change the viewpoint in real-time.

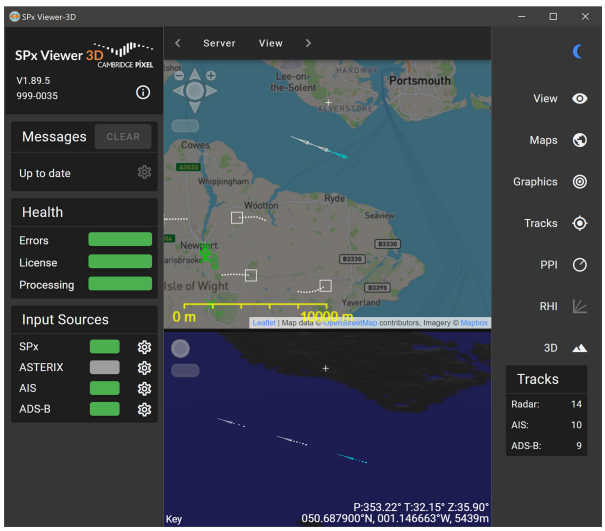


SPx Viewer-3D Specifications

CP-16-530-01, Issue 1.1

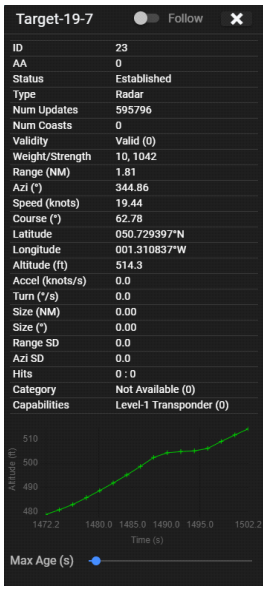
DATASHEET

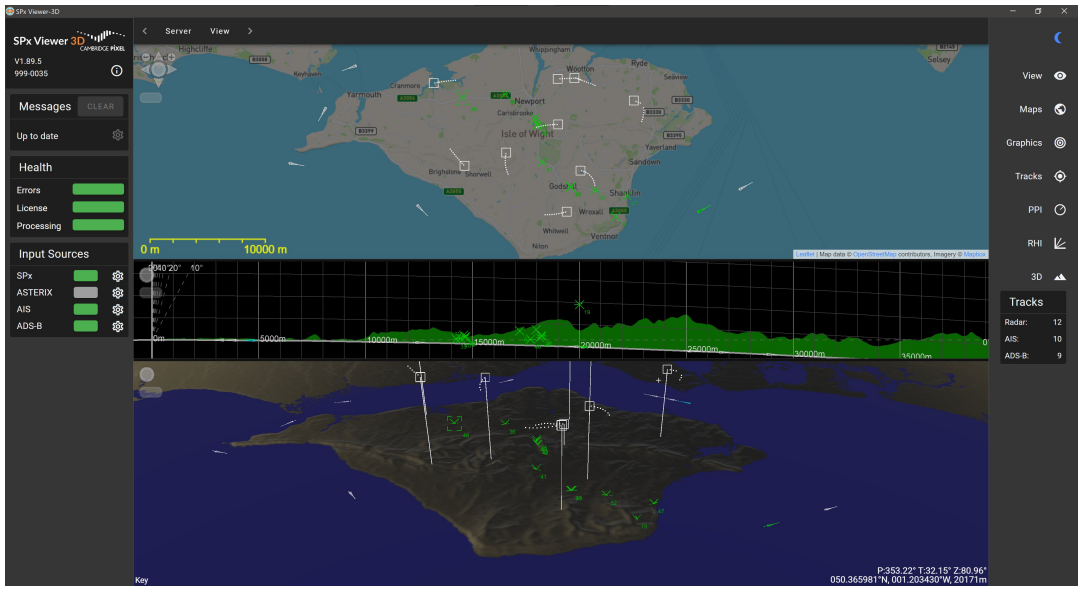




Specifications

Platform:	Windows 10/11 (or later version) and Linux
Configuration:	Configuration file read at start-up Application or browser-based user interface
Track Inputs:	SPx, ASTERIX, AIS or ADS-B • ASTERIX CAT-1 (with CAT-2) CAT-10, CAT-48 (with CAT-34), CAT-20, CAT-62 • AIS input: NMEA-0183 • ADS-B input: CAT-21, KAL, AVR, BEAST, AIRNAV, FR24
Display:	PPI display - shows 2D view with maps and charts. RHI display - Range Height Indicator view, shows 2D cross-section of terrain and track positioning. 3D display - shows 3D-projected terrain with tracks mapped in 3D.
Supported Browsers:	Chrome, Safari, Edge, Firefox





For more information, please contact:

CAMBRIDGE PIXEL
AN EMPLOYEE-OWNED COMPANY

Cambridge Pixel Ltd
New Cambridge House
Litlington, Royston
Herts SG8 0SS

+44 (0) 1763 852749
enquiries@cambridgepixel.com
cambridgepixel.com