![Planevision SYSTEMS — Industrial. Tracking. Solutions.]

Industrial. Defense. Tracking.

Aircraft. UAV. Vessels.

Planevision Systems presents a family of professional 1U/2U 10/19-inch rack-mounted Basestation kits designed for cost-effective AIR & SEA integrated surveillance products.

HARDWARE

Looking to set up an air traffic tracking ground station? Our receivers, available in both land and rugged maritime versions, offer network-based remote control and ensure trouble-free operation.

SOFTWARE

Whether you have specific requirements for receiver software or need a radar display application, Planevision Systems provides a range of state-of-the-art solutions. These include on-device software and high-end virtual radar display software from Cambridge Pixel.

CUSTOMIZATION

Drawing on the vast experience of its founders in RF, receiver design, and software programming, Planevision Systems can help you design and install your preferred tracking receiver solution.

CONSULTATION

Facing a challenging location or network setup? With over 10 years of experience, Planevision Systems can guide you on the design needs for your project to ensure optimal coverage and reliability.

Industrial. Defense.
Rack. Low-cost. Off-the-shelf.

At Planevision Systems, we've been delivering reliable, high-value surveillance data Basestations since 2013. Our compact 19" and 10" **PlaneTRack** ADS-B and FLARM receivers are trusted globally across aviation and other sectors where certified airborne equipment isn't required.

We now offer **VesselTRack** and **DroneTRack** Basestations. **VesselTRack** captures AIS signals from ships, similar to ADS-B for aircraft. **DroneTRack** supports various signal formats used by UAVs and small aircraft, completing the surveillance picture.

With unified data output formats (ASTERIX, JSON, CSV, etc) across all three receiver models, integration into your existing IT or GIS environment is seamless—no aviation expertise needed. We also provide customized format converters to align with your current processing and display systems.

Planevision Systems makes professional-grade surveillance accessible, wherever your operations take you.

Commercial, Corporate, Military Transport Aircraft, General Aviation.

Advanced Technology in Your Rack

PlaneTRack receivers provide ADS-B and Mode-S detailed flight data to your IT system through a cost-effective, rack-mounted, and highly reliable Basestation.
Optimized for extended range and high throughput, its receiver technology is powered by a dedicated FPGA and its own high-speed processor.
These 19" 2U models offer an economical solution for standard racks without space constraints.

PlaneTRack
Type B/BDM
19 inch 2U
Single/Dual PSU
Unified Data

PlaneTRack
Type B10
10 inch 2U
Single PSU
Unified Data

**Space Constraints?
Here are our Compact Solutions**

PlaneTRack B10 10" 2U and B1U 19" 1U models offer the ideal solution for non-standard racks or limited slot height.
Fully compatible with all other PlaneTRack family members, these models and are served by the same processor core and
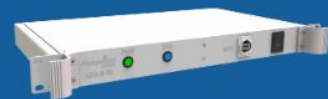decoder software.

Plug-and Play-Installation and Options

PlaneTRack devices are available as complete kits with accessories manufactured by well-known OEMs.
High quality antennas by **Amphenol Procom**, designed for rugged environments, ensure quick and reliable plug and play installation.
For applications requiring compensation for very long cable losses. we offer a high quality mast pre-amplifier by **Alaris Kuhne.**
Additional options include a **SNMP client** for seamless integration into industrial SCADA systems.
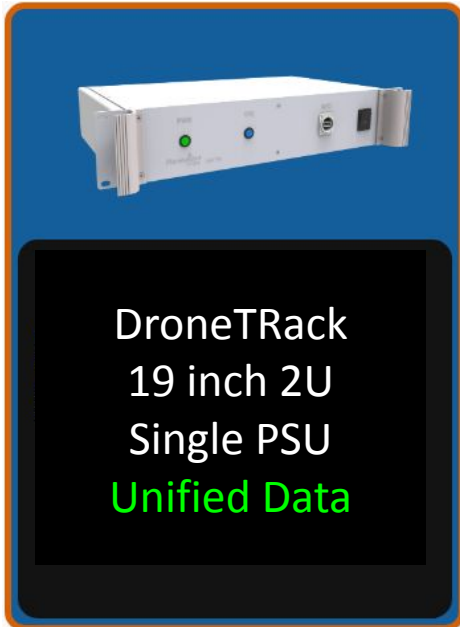
PlaneTRack
Type B1U
19 inch 1U
Single PSU
Unified Data

ADS-B

Planevision SYSTEMS — Industrial. Tracking. Solutions.

UAVs, Gliders, Very Light Aircraft

**DroneTRack
19 inch 2U
Single PSU
Unified Data**

Transparency for the Low-Level Airspace

Reconnaissance of drone and small aircraft flights is becoming increasingly important. With **DroneTRack,** we offer a high-technology 19" rack-mountable device that makes these flights trackable.

It supports five different data protocols across multiple regional frequency bands: **RemoteID** is a government-mandated format for drones, while **Flarm**, **FAnet**, and **Pilotware** are used for voluntary position transmissions by a large number of private small aircraft and gliders. **ADS-L** is intended to consolidate these formats in the future; we already offer it.

DroneTRack integrates seamlessly into our product family; with the same mechanical properties and data interfaces, the effort required for integration into your IT system remains minimal.

Ships. Vessels. Yachts. Barques. Boats.

AIR&SEA reconnaissance - growing together

With **VesselTRack** as a complement to our other family members, the dream of comprehensive reconnaissance becomes reality: **AIS** is the globally mandated source of position data for vessels of all types and sizes - we offer reception and processing as an ideal complement to an air situation picture.

Our advanced technology **VesselTRack** AIS receiver not only delivers excellent data quality but also generates unified aviation-related data formats at the network interface: a unified display of the AIR&SEA air situation picture becomes a reality, without the effort of installing and maintaining different IT systems.

**VesselTRack
19 inch 2U
Single Dual PSU
Unified Data**

FLARM

REMOTE ID

AIS
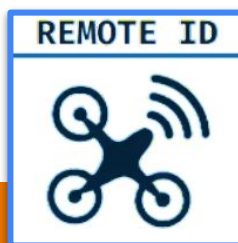
Aircraft. UAVs. Drones. Vessels. Tracking. Everything at a Glance.

Model	PlaneTRack				DroneTRack		VesselTRack
Type	B	BDM	B1U	B10			
Tracking objects	Commercial, corporate, military transport aircraft, general aviation				UAVs, general aviation, gliders, ultralights	UAVs	Vessels
Tracking technology	ADS-B				ADS-L, FANET, FLARM, OGN, PILOTAWARE	Drone Remote ID (DRI)	AIS
Typical standards	DO-260B, ED-102A				EASA	EASA/FAA	ITU
Applicable mandates	EASA, FAA, AU, CN, HK, SG, AE, TW, SA, MX, SV, ZA, ID, CA					EASA/FAA	IMO SOLAS
Frequency	1090 MHz				868/915 MHz	2.4/5 GHz band	161.975, 162.025 MHz
Antenna	3 dBi passive or 17 dB active with internal bias-tee				17 dB active antenna	17 dB active antenna	
Frontend filter	Cavity type				Cavity type		SAW
Preamp/ bias-tee	Mast preamp (30 dB) optional				Integrated bias-tee	Integrated bias-tee	
Receiver/ Tuners	1 direct conversion frontend with FPGA detector				4 independant FSK tuners	2 independant WiFi/Bluetooth receivers	Dual independant receivers
Case height	2U	2U	1U	2U	2U		2U
Case width	19"	19"	19"	10"	19"		19"
Case depth							
Power supply	single DC	dual DC	single DC	single AC	single DC		single DC
Network interface	http(s), UDP, TCP						
Unified data formats	Asterix (Eurocontrol), CSV, JSON, NMEA						
Specific data formats	Raw binary data						
GPS timestamp	x	x	x	x			
NTP timestamp	x	x	x	x	x		x
Processor	ARM-HF Linux/Debian LTS						
Customizable software	x	x	x	x	x		x

AIR & SEA. Three Surveillance Models.
Unified Data for Your IT Systems.

At Planevision Systems, we want to keep the effort required to integrate AIR & SEA surveillance data into your IT system as low as possible. Our **PlaneTRack**, **DroneTRack,** and **VesselTRack** family members therefore offer a digital network output via which the situation report can be sent flexibly and worldwide.

The unified data concept enables the situation report for aircraft, drones, and ships to be displayed on a single display or in a single IT system using a single data format. We take care of the necessary format conversion.

In this way, you can display aircraft position data on maritime display systems alongside the existing ship data. Conversely, ship data can also be displayed on the aircraft position displays.

This unique, flexible concept significantly reduces the effort required for integration into your IT systems.

Unified data formats - available on all Basestation models			
	TCP	UDP	HTTP
Raw data binary	ADS-B Binary	ADS-B Binary	-
Raw data ASCII	NMEA	NMEA	-
Decoded binary	Asterix CAT021	Asterix CAT021	-
Decoded ASCII	ADS-B CSV	Asterix CSV JSON CSV	Asterix CSV JSON CSV