



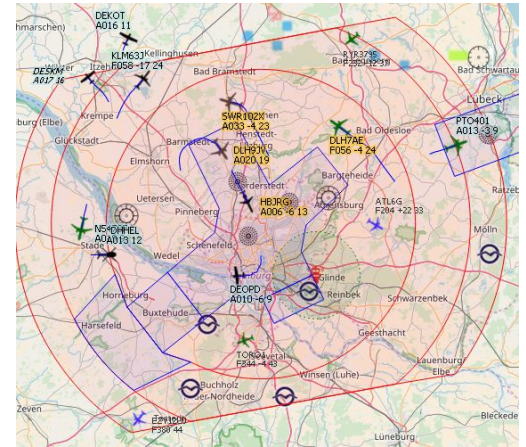
# Catalogue 2019

## ADS-B

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58903109, 3C6664, DLH9F, 23000, 50, 76, 49.4353, 5.2708, 0, 1000  
 58903111, 3E3F1A, DIPCC, 8800, 244, 199, 49.7963, 8.82083, 3904, 0632  
 58903111, 3C49E5, CFG7TD, 10500, 313, 185, 49.6719, 8.52613, 768, 012

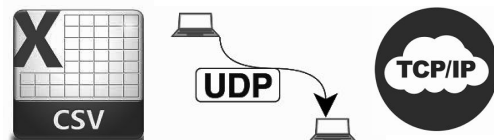


Tracking ADS-B and FLARM<sup>(tm)</sup> equipped manned and unmanned aircraft or vehicles can provide many industrial operators with valuable surveillance data.

Since 2013 we at Planevision Systems have delivered our 19" and 10" ADS-B and FLARM receiver kits to many industrial customers that are not part of the classical aviation community with airborne certification requirements. Our receivers are affordable and provide superior performance for non-controlling ground stations at reasonable costs.

Many offshore wind farm and platform operators, satellite companies, public emergency services, defence agencies, vessel operators, to name a few, have enjoyed our products. Our output formats are "well-known" as Asterix, JSON, CSV and easy to process in customer's IT and GIS systems.

Since 2017 we also offer tracking and surveillance systems for commercial and private airports. Typically at smaller airfields and in areas where no sufficient ADS-B and FLARM equipage can be expected we offer a sophisticated Mode-S multilateration solution - also at affordable prices, as all our offerings.





# PlaneTRack Type B

## PlaneTRack Type B-FLARM



**PlaneTRack Type B** is a complete ADS-B receiving systems with a single AC power supply, one ADS-B antenna/clamp, one GPS antenna/clamp and two antenna line surge protectors.

**PlaneTRack Type B** is the ideal solution for receiver sites that require 19" plug-n-play rack inserts.


**PlaneTRack Type B-FLARM** is a complete ADS-B/FLARM receiving systems with a single 115/230V AC power supply, one ADS-B antenna/clamp, one FLARM active antenna/clamp, one GPS antenna/clamp and two antenna line surge protectors (for ADS-B and GPS antenna lines).

**PlaneTRack Type B-FLARM** is the ideal solution for receiver sites that require 19" plug-n-play rack inserts with an approved OEM-licensed FLARM ground station.

The device is delivered with an 21dB active outdoor FLARM antenna and clamp. The FLARM data output is fully integrated into the ADS-B receiver output, with Asterix CAT021, JSON, CSV and other output formats.



### Available Options:

010	Maritime/offshore rugged version	06x	Airborne option (DO-160)
020	Extended temperature range -20°...+80°C	070	Radar display software for MS Windows
030	Industry package with SNMP client and alarm contact	08x	Extended warranty 24/36/48 months
035	High gain active antenna +21dB	090	Exchange service/Pool access
04x	Internal DC/DC power supply 12/24/48V		<b>FLARM ground station add-on with Asterix CAT-021, JSON, CSV data output via network</b>
05x	Data options for Asterix and Mode-S Enhanced Surveillance	<b>PC</b>	<b>Integrated PC with HDMI output for displays. Stand-alone. No external PC required</b>





**10 INCH**

# ADS-B

**PlaneRack Type B10** is a complete ADS-B receiving systems with a single AC power supply, one ADS-B antenna/clamp, one GPS antenna/clamp and two antenna line surge protectors.

**PlaneRack Type B10** is the ideal solution for space critical receiver sites that require 10" plug-n-play mini-rack inserts.



### Available Options:

010	Maritime/offshore rugged version
020	Extended temperature range -20°...+80°C
030	Industry package with SNMP client and alarm contact
035	High gain active antenna +21dB
04x	Internal DC/DC power supply 12/24/48V
05x	Data options for Asterix and Mode-S Enhanced Surveillance
06x	Airborne option (DO-160)
08x	Extended warranty 24/36/48 months
090	Exchange service/Pool access
	Antenna cables, connectors and adapters

## PlaneRack Type B10 PlaneRack Type B-DM PlaneRack Type R-DM

**PlaneRack Type B-DM** is an ADS-B receiving systems with a dual redundant AC power supply, one ADS-B antenna/clamp, one GPS antenna/clamp and two antenna line surge protectors. **PlaneRack Type B-DM** is the ideal solution for receiver sites that require power fallback redundancy (e.g. offshore sites).

**PlaneRack Type R-DM** is a fully redundant ADS-B receiving systems with an dual independant channel ADS-B receiver, dual redundant AC power supply, two ADS-B antennas/clamps, two GPS antennas/clamps and four antenna line surge protectors.

**PlaneRack Type RDM** is the ideal solution for receiver sites that require full redundancy or dual antennas that are required due to partially obstructed views.

**REDUNDANT**





## PlaneRTx 8.33 AIR/VHF receiver

PlaneRTx is the flexible and versatile 19" AIR/VHF Radio Ground Station for small and military airports. The device is prepared to accept the Becker GT-6201 (certified by BAF D-0030/2014) or AR-6201 VHF radio inserts (and others).

For IFR airports we offer a dual version for two radio inserts.

- + **8,33 kHz** Ground station (mandatory within EU from 01/01/2018)
- + 118.00 – 136.9917 MHz
- + Output power 6 or 10 Watt
- + 1:1 replacement for existing 25 kHz TG560 VHF Ground Stations
- + Headset jack at the front panel
- + LEDs for TX and RX
- + dimmable panel lights
- + integrated AF amplifier for external speakers with volume control
- + interface for audio recorders
- + interface for DF suppression
- + interface for remote control
- + AC mains powered (115/230V) or DC powered (12V)

### for export:

- + 25 kHz channel spacing with AR4201/GT4201
- + alternate receiver KRT2
- + alternate receiver Electrosignal „Yurok“





# VEKTOR

## ADS-B

### Vehicle Tracking System

VEKTOR is a portable ADS-B transmit solution. The transmitter has a 20W nominal output and is ideally suited for **vehicles on airport premises**. Transmit functionality can be enabled/disabled with the included app for Android /iOS..



### Easy Mount

The transmitter can be permanently or magnetically mounted to all airside vehicles, including tugs, fire, rescue and deicing equipment. Each vehicle is clearly and uniquely identified, providing an essential addition to any surface movement guidance and control system.

### GPS

A high-integrity, built-in SBAS GPS with RAIM provides position data to the ADS-B transmitter. The device has the ability to automatically disable transmission when vehicle leaves movement area



### Integrated Battery

The integrated battery removes cords and clutter from the cockpit of your vehicle and has enough capacity for a minimum 6 hours without re-charging with the transmit function enabled.

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09, 3C6  
4, DLH9  
23000  
7, 76, 4  
4353, 5  
7908, 0  
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145890  
11, 3E3  
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8800, 2  
, 199, 4  
7963, 8  
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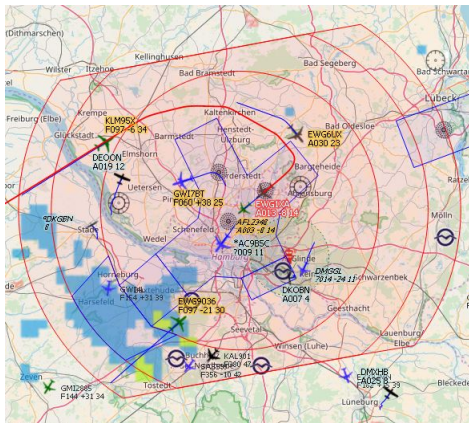


# Airfield Surveillance Systems



## Pattern Control

Observe live noise abatement adherence of airport pattern traffic or neighbourhoods, down to short final altitude, with surprising accuracy. For aircraft with ADS-B, Mode-S and FLARM transmitters/transponders.



## Sanctuary Control

Supervise traffic around and above wildlife reserves, bird sanctuaries and other restricted airspaces, with audio/visual intrusion alarm in the Tower. Record traffic in a permanent digital archive. Radar display in web browser or Windows app.

## Automated Statistics

In/out traffic, restricted area intruders, overflyers can be sorted and analysed with tailored statistics, day by day, hour by hour. Published on private web page.





## Overview and Options

Type	Receiver	PSU	Options					
			Maritime/ offshore/ rugged	Extended temp.	Industry package	Active antenna for ADS-B	DC supply	Airborne option
B	1 ADS-B	1	yes	yes	yes	yes	yes	yes
B-DM	1 ADS-B	2	yes	yes	yes	yes		
R-DM	2 ADS-B	2	yes	yes		yes		
FLARM	1 FLARM	1						
B-FLARM	1 ADS-B 1 FLARM	1						
RTx 8.33	AIR/VHF	1					yes	

## Technical Data

**Standard kit** (except RTx 8.33): receiver, antennas, antenna mounts, surge protectors  
**Network interface:** 100 MBit/s Ethernet  
**Power supply:** 115/230VAC 50/60 Hz 10-40W  
**Protective earth:** M8 or M5 bolt  
**Dimensions/Weight:** 10"/19", 1U, depth 280/330 mm; device 4.7 - 6.7 kgs  
**Ambient temperature:** 0 - 40°C  
**MTBF:** > 60.000 hours

## Standards/Compliance

CE marking  
 EN 60950-1  
 EN 301 489-1 V1.9.2  
 EN 301 489-15 V1.2.1  
 IEC 61000-3-2,3  
 IEC 61000-4-2,3,4,5,6,8,11  
 EN 55022 Ed. 6.0



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