

## Product Overview

# Radarcape

Professional ADS-B and MLAT Receiver

## Radarcapc ADS-B MLAT Receiver

**Radarcapc** is a professional ADS-B receiver made for 24/7 operation. High performance reception in a wide temperature range, suitable for all applications in wide area, surface or apron monitoring. Radarcapc comes with optional features for special applications (see table below) and is proven in thousands of client environments worldwide.

**Radarcapc** offers high quality RF performance and a large reception range with high accuracy, a state of the art Linux based firmware and low power consumption. The precision GPS based time stamp is available, and the device can also operate as a Stratum-1 time server. The 50ns deviation timestamp is perfect for Multilateration calculations performed in Jetvision MLAT networks.

Designed as all built-in ADS-B receiver, there is no need for external software. **Radarcapc** can operate as stand-alone device with multi user web browser access. All users have their own settings, filters etc., regardless of access by desktop, tablet or smartphone. Many status and performance pages support and supervise installation and operation.

For individual applications **Radarcapc** can provide live tracking data to its data interfaces (see decoded formats in the aircraft data output table below). Separately available options provide Eurocontrol ASTERIX protocol with CAT021, CAT023 and CAT247 based on EUROCAE ED129-B.

**Radarcapc** is the basic ADS-B and MLAT receiver for jetvision commercial solutions e.g. Out- and Indoor or Mobile Sensor Stations.

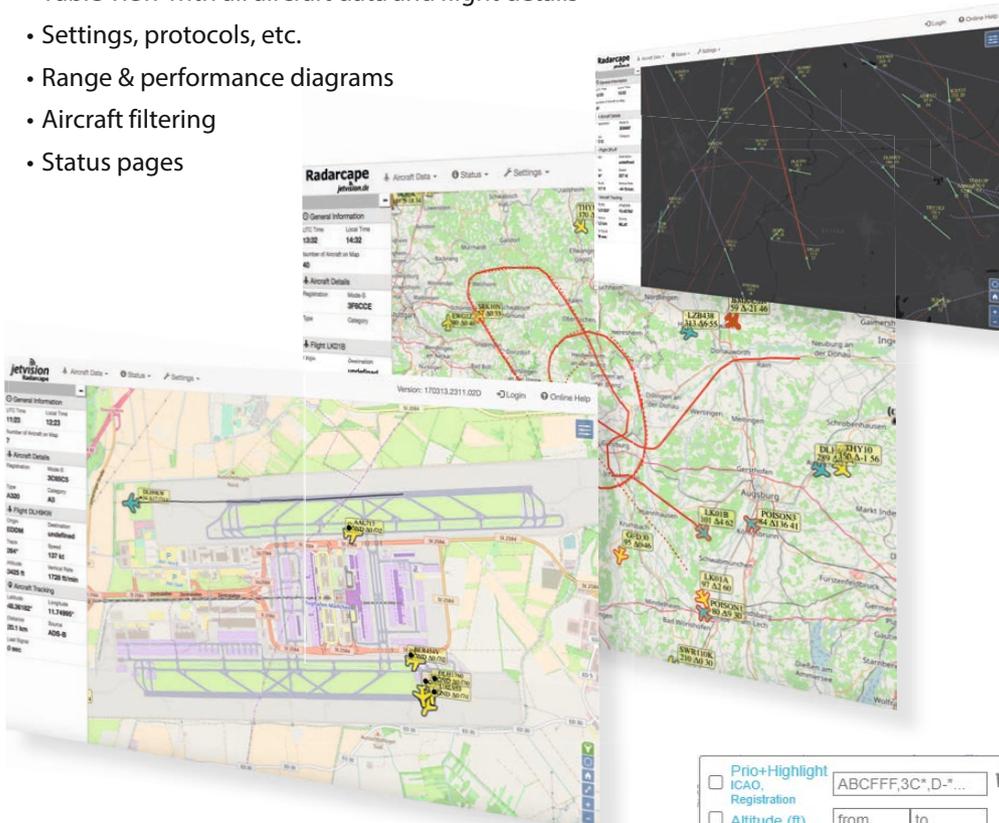
### Conclusion:

As a powerful ADS-B receiver **Radarcapc** will support all your requirements for live flight tracking. Stand-alone or in a complex network with MLAT server support, under challenging RF conditions available with optional features like real antenna diversity, high dynamic range at apron or close to the runway.

# Web Browser User Interface

(powered by Radarcape)

- Different map styles including ATC and OpenLayers
- Table view with all aircraft data and flight details
- Settings, protocols, etc.
- Range & performance diagrams
- Aircraft filtering
- Status pages



With its versatile filter functions each client can setup and filter various conditions including:

- Center screen to home location
- Keep selected aircraft in the center of the map
- Filter on altitude, speed, distance...
- Filter on flight, aircraft type, fleet watch
- Select data source e.g. ADS-B, MLAT, FLARM, OGN
- Setup track length, refresh interval
- SQUAWK

<input type="checkbox"/> Prio+Highlight	ABCFFF,3C*,D*...	<input type="button" value="X"/>
<input type="checkbox"/> ICAO, Registration		
<input type="checkbox"/> Altitude (ft)	from to	
<input type="checkbox"/> Speed (kt)	from to	
<input type="checkbox"/> Distance (km)	from to	
<input checked="" type="checkbox"/> Ground Traffic		
<input type="checkbox"/> Flight	e.g. DLH1330 or DLH*	
<input type="checkbox"/> Squawk	1000,7700,...	
<input type="checkbox"/> List, octal		
<input type="checkbox"/> Origin	EDDF or ED*	
<input type="checkbox"/> List of Airports		
<input type="checkbox"/> Destination	e.g. LIRA or LIR*	
<input type="checkbox"/> List of Airports		
<input type="checkbox"/> Operator	List of Operators	
<input type="checkbox"/> Aircraft Type	e.g. A320 or A32*	
<input type="checkbox"/> Fleetwatch	ABCDEF,D*,DEF123,...	
<input type="checkbox"/> ICAO, Reg		
Track Length (s)	auto	
<input checked="" type="checkbox"/> ADS-B	<input checked="" type="checkbox"/> MLAT	<input checked="" type="checkbox"/> F1Awa
<input type="checkbox"/> OGN	<input checked="" type="checkbox"/> FLARM	
Preferred Source	Auto	
Refresh Interval	2s	
<input type="button" value="Apply &amp; Close"/>		

# Radarcape Technical Data

Radarcape Hardware	
<b>Trimble Resolution SMT GPS module</b>	GPS localisation and timestamps with a resolution better than <b>50 ns 1<math>\sigma</math></b> (15 m)
<b>Linux Core</b>	AM335x 1 GHz ARM Cortex-A8 512 MB DDR2 RAM, 4 GB eMMC USB host port, USB device port
<b>Sensitivity</b>	-93 dBm signal level for 50 % decoding rate or better
<b>Decoding</b>	FPGA based decoding
<b>USB expansion port</b>	SDR sticks, measurement devices, data storage systems, WiFi stick
<b>Temperature range</b>	Tried and tested in a wide temperature range
<b>Power</b>	Low power consumption, typical 3 W (external power supply)
<b>Extensions</b>	Open design for customer extensions
<b>Hardware options</b>	<ul style="list-style-type: none"> <li>• Antenna diversity (2 separate RF units)</li> <li>• High Dynamic Range (HDR)</li> <li>• Video out (ADS-B analog signal)</li> <li>• External clock input (10 MHz)</li> </ul>
Aircraft Data Output	
<b>Raw Mode-S data</b>	<ul style="list-style-type: none"> <li>• Non-decoded raw data available for formats DF-0, DF-4, DF5, DF-11, DF-17, DF-18, DF-20 and DF-21</li> <li>• AVR hexdump or Beast-Binary formats</li> <li>• 12 MHz counter legacy timestamp or GPS based absolute timestamps</li> </ul>
<b>Decoded data formats</b>	<ul style="list-style-type: none"> <li>• Port 30003 CSV style format</li> <li>• JSON format</li> <li>• Eurocontrol ASTERIX CAT 021, 023, 247, licensed separately</li> <li>• HTML web GUI</li> <li>• KML format</li> </ul>
<b>Decoded information</b>	<ul style="list-style-type: none"> <li>• Aircraft data: ICAO hex code</li> <li>• Flight parameters: location, altitude, speed, track, vertical rate</li> <li>• Flight ID, Squawk</li> <li>• BDS registers (partly)</li> <li>• Signal level ... and many more</li> </ul>
<b>Accessibility</b>	<ul style="list-style-type: none"> <li>• TCP connection</li> <li>• UDP streaming</li> <li>• USB VCP serial interface</li> <li>• USB RNDIS network</li> </ul>

## Remark:

Jetvision MLAT server supports the same data interfaces structures as Radarcape, integrating results from multiple sensors.

## Radarcape Software Features

Firmware - Integrated Webserver	
<b>Decoding</b>	High performance FPGA based decoding (Mode-S, ADS-B and Mode-A/C data on 1090 MHz)
<b>Operating system</b>	Linux Debian 10 operating system
<b>User interface</b>	Web browser access with web interface (built-in webserver, compatible with all common browsers, responsive design)
<b>Map styles</b>	Real time flight tracking in 2D map view (ATC or OpenLayers Maps style)
<b>Table style</b>	Real time flight table update
<b>Multilateration</b>	MLAT via jetvision network
<b>Feeder</b>	Multiple built-in feeder options (Flightradar24, FlightAware, Opensky Network, PlanePlotter, ADS-B Exchange)
<b>FLARM®</b>	External FLARM® receiver connectable by LAN or Micro-USB
<b>Open Glider Network (OGN)</b>	Aircrafts tracked by OGN network can be displayed
<b>Network interfaces</b>	Multiple network interfaces (TCP, UDP, USB-VCP, USB-RNDIS)
<b>Data formats</b>	Multiple pre-decoded and raw data output formats (JSON, ASTERIX, CSV, KML, Port 30003, raw data)
<b>Time server</b>	Stratum 1 NTP server

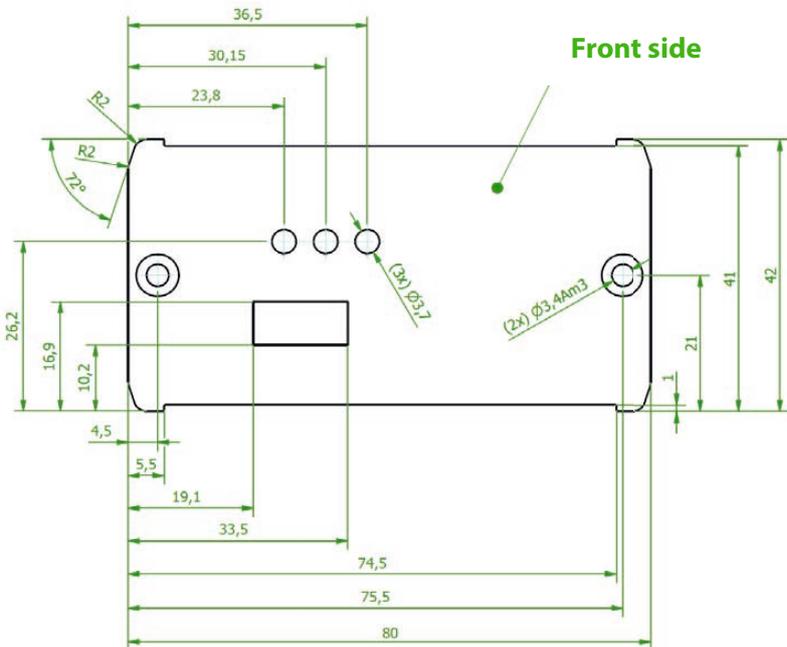
### Powerful Software Options

<ul style="list-style-type: none"> <li>Aircraft Data</li> <li>Status</li> </ul>	<ul style="list-style-type: none"> <li>Status</li> <li>Settings</li> <li>About</li> </ul>	<ul style="list-style-type: none"> <li>Settings</li> <li>About</li> </ul>
<ul style="list-style-type: none"> <li>Aircraft List</li> <li>Live 2D OpenLayers Map</li> <li>Live 2D GMap</li> </ul>	<ul style="list-style-type: none"> <li>System</li> <li>Jetvision MLAT</li> <li>Network Data Ports</li> <li>Database Update</li> <li>GPS</li> </ul>	<ul style="list-style-type: none"> <li>General</li> <li>Jetvision MLAT</li> <li>Feeder Settings</li> <li>External Sources Settings</li> <li>Streaming Data Output</li> <li>Save &amp; Restore Configuration</li> <li>Network</li> <li>Software Maintenance</li> <li>Change Password</li> <li>Reboot</li> </ul>
<ul style="list-style-type: none"> <li>3D Tracks</li> <li>Live 3D KML Output</li> <li>KML Output Filter Settings</li> </ul>	<ul style="list-style-type: none"> <li>External Sources</li> <li>Open Glider Net Server Connection</li> <li>Open Glider Net Local Receiver Connection</li> </ul>	
	<ul style="list-style-type: none"> <li>Feeder</li> <li>Flightradar24</li> <li>PlanePlotter</li> <li>FlightAware</li> <li>Opensky Network</li> </ul>	

# Radarcape Basics

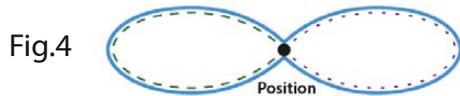
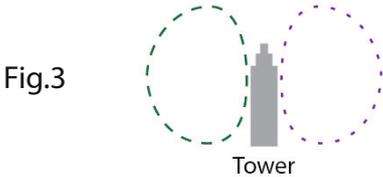
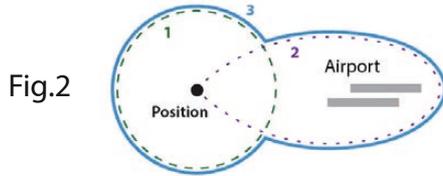
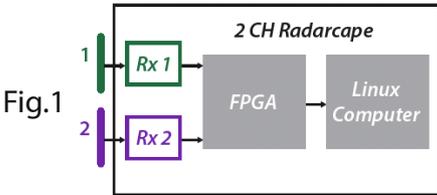
Radarcape Basic Data	
<b>Power</b>	5 V external power supply, 5.5/2.1 mm DC connector
<b>Dimensions</b>	92 x 80 x 45 mm (L x W x H)
<b>Weight</b>	300 g
<b>CE and FCC certified</b>	CEE and FCC
<b>ROHS conform</b>	Yes

Radarcape Delivery Includes	
<b>Radarcape</b>	Hardware options must be ordered separately
<b>Power supply (5 V)</b>	4 types of wall plugs: EU/ US/ Australia/ UK shipped according to destination country
<b>Network cable</b>	5 m, CAT-5
<b>GPS antenna</b>	Cable length 5 m, extension 5 m and 10 m available
<b>Commercial Options</b>	Asterix CAT 021, Ed. 0.23/0.26/2.4, CAT 023, CAT 025, CAT 247 MLAT configuration fully flexible

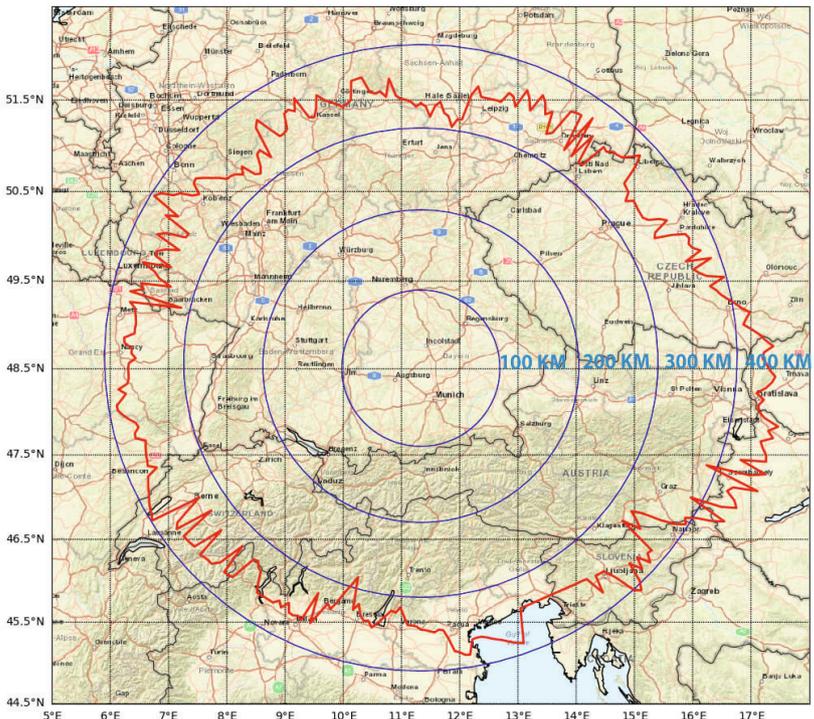


# Radarcape Antenna Diversity (optionally)

Using the Radarcape two channel (2CH) option (Fig.1) provides best results in difficult surroundings. Many problems can be solved, e.g. a favorite direction to observe a hot spot (Fig.2), antenna on a tower with blocking view (Fig.3) or a directional / long range extension (Fig.4).



Radarcape 2CH with YAGI antenna direction 110 degrees (Munich airport) - Range > 400Km



# Radarcape Type Comparison

Check out all available Radarcape options:

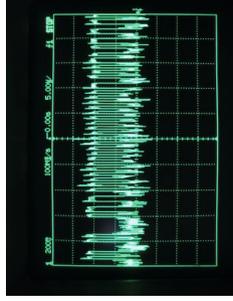
Jetvision Radarcape Type Overview	See Note	Article Number	RF Units	Antenna Inputs	GPS Module	Video Output	External 10MHz Reference + 1PPS
<b>Radarcape</b>		66006	1	1	•		
<b>Radarcape High Dynamic Range (HDR)</b>	(1)	66006HDR	2	1	•		
<b>Radarcape Antenna Diversity (2CH)</b>	(2)	66006D	2	2	•		
<b>Radarcape Video Out</b>	(3)	66006V	1	1	•	•	
<b>Radarcape 2CH + Video Out</b>	(2, 3)	66006DV	2	2	•	•	
<b>Radarcape Video Out + ext.Clock + 1PPS</b>	(3, 4)	66006VC	1	1	•	•	•
<b>Radarcape 2CH + Video Out + ext. Clock + 1PPS</b>	(2, 3, 4)	66006DVC	2	2	•	•	•

**Notes:**

- (1) For applications with aircraft closer than 300m to the antenna.
- (2) Antenna diversity. 2 RF channels with two antennas. For complex situations e.g. reflections, one priority direction (with Yagi antenna) etc.
- (3) Video out: SMB connector with video out signal to check signal quality.
- (4) 10 MHz clock input: External 10 MHz reference clock and 1PPS input for a reference clock-based environment.
- (5) Wifi with external WifiStick



**Front panel**



**Video out**

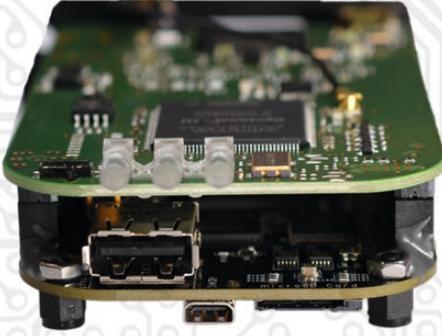


**Rear panel**  
Diversity with Video Out

# Radarcape Inside



**ADS-B Demodulator**



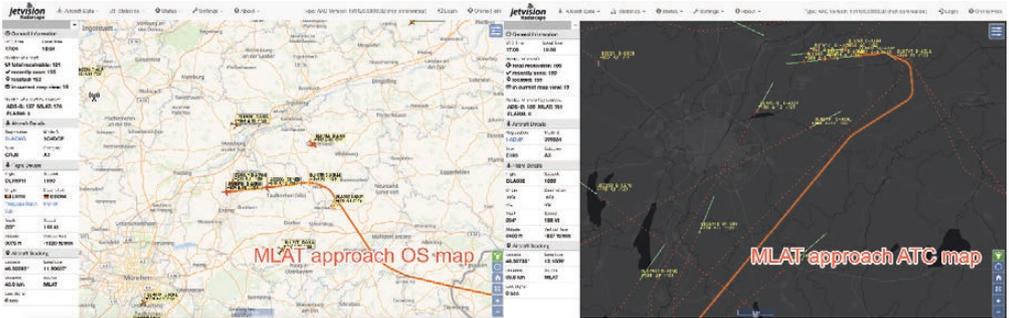
**Cape**



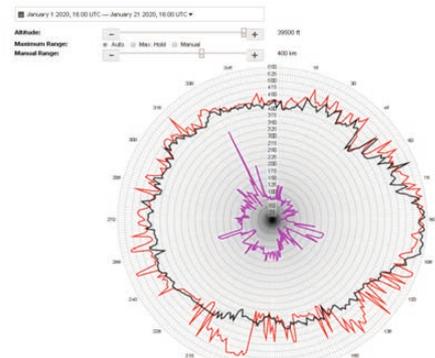
**CPU**



# Radarcape Screenshots

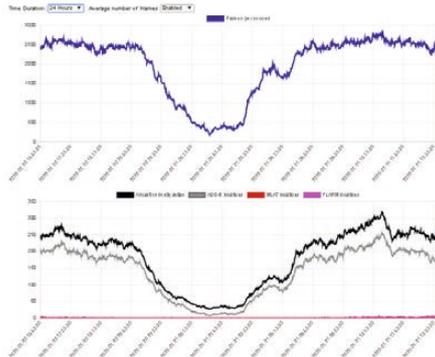


## Receiver Range



## Receiver Performance

Latest Sample:	2020-01-21 15:42:00
Resolution:	60 rad
Frames per second:	1274
Total frames:	395
Active streams:	395
ADS-B locations:	183
MLAT locations:	0
Flown locations:	3



## GNSS Status

### Receiver Status

Time: 2019-11-24 17:55:11Z UTC

Latitude: 48.5088

Longitude: 11.4298

Altitude: 324.0868

Temperature: 49.2

Fix Mode: Auto

Fix Dimension: 0D-clock fix

Self Survey: Complete

Survey Progress: 100%

Receiver Mode: Core demommed clock

GNSS Status: Doping term

Hardware ID: Rec2017 360

Firmware Version: 1.1 build 0

SW Build Date: 2019-08-11

Software Version: 1.1 build 2019-08-11

Product Name: Rec2017 360

Antenna Open: Connected

Antenna Short: No

Tracking Status: True

Position Skewed: True

Position Queued: False

Altimetric: Complete

PPS Not Generated: False

PPS Based On: UTC

Number SW to Fix: 8

Registration Results: 2019-11-24 17:55:02

Time Reference: UTC

PPS Reference: UTC

PPS Pulse: On

PPS Polarity: Positive

### Satellites

PRN	Class	Az	Elev	Snr	Acquire	Ephem	Age	QW	Stat
20	I	287	20	18	Acquired	Good	1	-	In Progress
10	I	318	16	18	Acquired	Good	1	-	In Progress
13	I	151	47	19	Acquired	Good	1	-	In Progress
24	I	287	49	24	Acquired	Good	1	-	In Progress
28	I	52	33	17	Acquired	Good	1	-	In Progress
17	I	84	39	23	Acquired	Good	1	-	In Progress
12	I	232	25	30	Acquired	Good	1	-	In Progress
79	I	282	37	17	Acquired	Good	1	-	In Progress

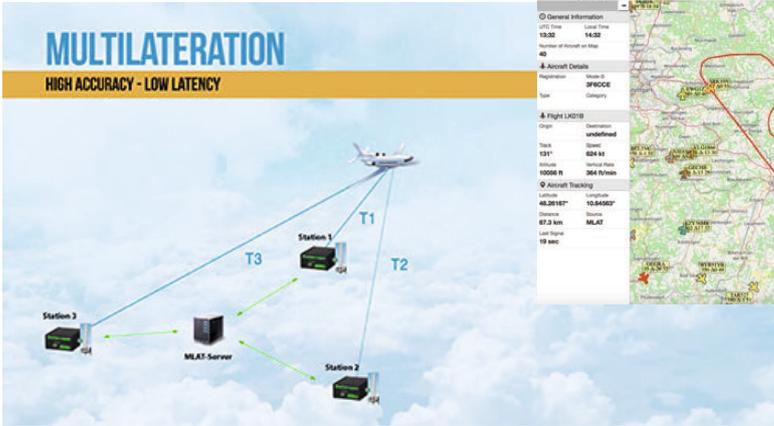
### PPS Clock Carryover

### Operational Log

# Radarcapex Accessories

Antennas and Filter		
Antennas 1090 MHz	<b>A3 ADS-B Antenna</b>	<b>A3 ADS-B Antenna - V4A offshore</b>
	<p>Premium A3 ADS-B antenna with high gain (+5 dBi) for frequency range of 1090 MHz including antenna mount. N-female-connector</p> <p>Suitable for installations with short to medium length antenna cables or when using low loss cables.</p> <p>Our antenna is best suitable for outdoor use.</p>	<p>This ADS-B antenna (V4A stainless special steel) is suitable for off-shore use and includes mounting kit. N-female-connector</p> <p>SCO-1090-MO certified MIL-STD-810G, method 509.5 (48/48h).</p> <p>This passive antenna has high gain (+5 dBi).</p> <p>Suitable for installations with short to medium length antenna cables or when using low loss cables.</p>
	<b>Active Diapason Antenna</b>	
	<p>Active high performance ADS-B Antenna 1090 MHz with 2 dBi gain, noise figure typ. &lt; 1dB, LNA amplifier, app. 21 dB gain. SMA-connector</p> <p>For distant antenna locations to compensate for associated cable losses.</p>	
<b>Filter</b>	<b>1090 MHz Cavity Filter</b>	
	<p>1090 MHz 3 Pole Filter, 2x SMA-female or SMA/N-female. A filter with high quality and low attenuation. Recommended in close proximity to high power GSM, FM or TV stations.</p> <p>Massive DC short on input and output for static electricity and lightning protection.</p> <p>Passband Attenuation: <b>only 0.5 dB.</b> Bandwidth (-3 dB): better than 9 MHz</p>	

# Multilateration



Client Requirements	
<b>Accessibility</b>	Port 10011 must be open for both TCP and UDP from Radarcape to the server
<b>Firewalls on Radarcape side</b>	In most cases, firewalls don't need special configuration (like DSL Fritz-Box, Speedport etc.)
<b>GPS</b>	GPS antenna must be installed and have a free sky view
<b>Location</b>	MLAT processing for aircraft within a region with minimum of three Radarcapecs or by participating in jetvision MLAT network

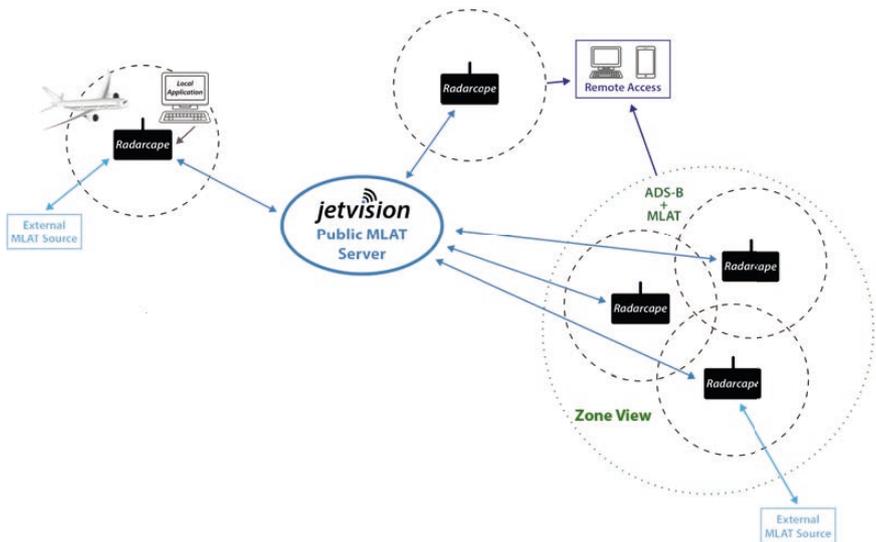
jetvision MLAT Server	
<b>Sensor data fusion</b>	All data formats that are supported by a Radarcape sensor are available from the MLAT server as aggregation of all connected sensors
<b>Monitoring and maintenance</b>	<ul style="list-style-type: none"> <li>• Connected clients</li> <li>• Client performance supervision</li> <li>• Currently tracked aircraft (summary of all clients)</li> </ul>

Further information about jetvision MLAT server can be found in our product brochure „Multilateration“.

# Jetvision Flight Tracking Network

Every Radarcape will by default join the jetvision flight tracking network in order to enjoy features like remote access, sharing groups or multilateration (for areas where a sufficient number of stations are part of the network). Privately operated customer networks can be established by jetvision as a separate service. If strict privacy is required, On-Premise licenses and support for local MLAT server operations are available.

These features are licensed separately for commercial users. See also our terms and conditions on [www.jetvision.de](http://www.jetvision.de). For more information about licensing, options and special requirements, please contact: [support@jetvision.de](mailto:support@jetvision.de)



Features Jetvision Flight Tracking Network	
<b>Tracking data</b>	Access to realtime tracking data including MLAT data
<b>Grouping</b>	Closed user groups
<b>Remote access</b>	For private groups using jetvision MLAT service
<b>MLAT</b>	<ul style="list-style-type: none"> <li>starting with three ADS-B receivers for a common area only</li> <li>also available for ADS-B aircraft</li> </ul>
<b>Commercial options</b>	<p>Group View</p> <ul style="list-style-type: none"> <li>Operate a private flight tracking network on jetvision server, including MLAT for all connected sensors, complemented with all sensor data in jetvision cloud sourced network</li> <li>Archive all flight tracking data for later reviews</li> <li>Individual functions on request</li> </ul> <p>Zone View</p> <ul style="list-style-type: none"> <li>for a defined region, combining customer and cloud sensor data</li> </ul>

# jetvision

Receiver World  
for professional live flight tracking



19" rack ADS-B dual receiver

Radarcape



AirSquitter

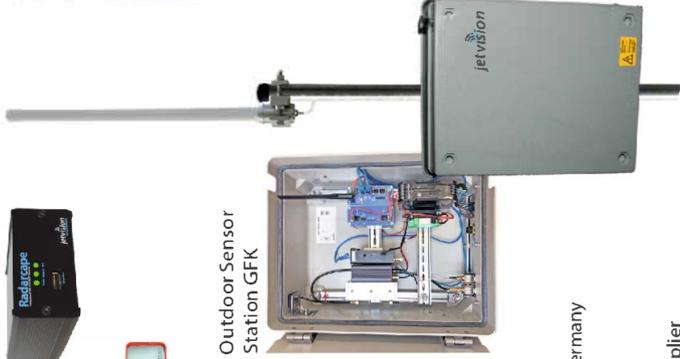
Indoor Sensor Station



Indoor Sensor Station (small)



Outdoor Sensor Station GFK



Mobile Sensor Stations



**Feature List:**

- ADS-B
- Multilateration (MLAT)
- FLARM
- GSM (LTE data link)
- MLAT server connectivity
- Customized configurations
- Industrial quality

**Jetvision GmbH**

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www.jetvision.de

ISO 9001 certified supplier

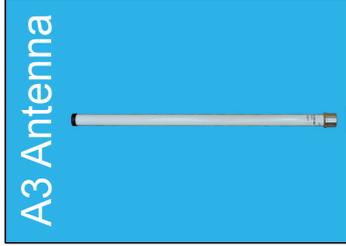
# Cable up to 30m: Passive ADS-B Antenna

- #66903:**  
magnetic mounted GPS antenna  
with 5m cable
- #66913:**  
magnetic mounted GPS antenna  
with 50cm cable
- #66914:**  
Outdoor GPS Antenna



**#67020:**  
Omni directional antenna  
Gain: 5dBi  
Size: 625mm long

**#67305:**  
V4A quality



**for #66903/#66913:**  
5m extension: #77505  
10m extension: #77510

**for #66914:**  
5m: 70305  
10m: 70310  
and so on in 5m steps



- #66006:**  
Radarcape  
Power Supply  
LAN cable  
Magn. GPS Antenna

**optional: Pigtail**  
for H2000 pull relief  
#70251:  
10cm SMA-F/SMA-M



## Coax Cable

Constraint: Less than 4dB attenuation

**Standard**  
CO100AF:  
5m: #70405  
10m: #70410  
15m: #70415

**Robust**  
H2000 flex: Hyperflex 5  
5m: #70905  
10m: #70910  
15m: #70915  
20m: #70720  
25m: #70725  
30m: #70730

# Cable more than 30m: Active Diapason Antenna

## #66903:

magnetic mounted GPS antenna  
SMB, 5m cable

## #66913:

magnetic mounted GPS antenna  
SMB, 50cm cable

## #66914:

Outdoor GPS Antenna



GPS Antenna



Active Diapason Antenna 1090

## #68200:

Omni directional antenna with filter and amplifier  
Native Antenna Gain: 2.5dBi  
Amplifier Gain: 21dB  
Noise Figure: <1dB  
Size: 250mm long

Not recommended with less than 5dB cable attenuation or

## for 66903/66913:

5m extension: #77505

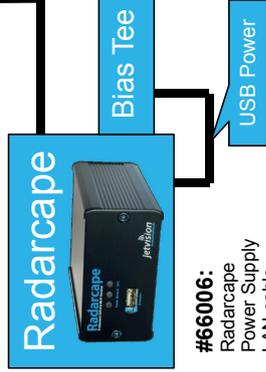
10m extension: #77510

## for 66914:

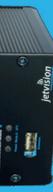
5m: 70305

10m: 70310

and so on in 5m steps



Radarcape



Bias Tee

USB Power

## #66006:

Radarcape  
Power Supply  
LAN cable  
Magn. GPS Antenna

## Coax cable

Permitted attenuation up to 15dB

## Standard

CO100AF:

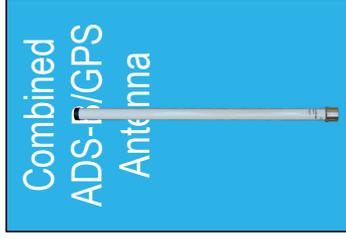
20m: #70120

## Robust

Hyperflex 5

25m and more: on demand

# Common cable for GPS and Mode-S up to 30m cable



**#67960:**

Omni directional antenna  
GPS active chip antenna  
ADS-B Antenna Gain: 5dBi  
Size: 625mm long

**#70151**



**#71302**



**#66006:**

Radarcape  
Power Supply  
LAN cable  
excluding imagn. GPS Antenna

**#70551**



## Cable H2000 flex

Constraint: Less than 4dB attenuation

**Standard**

CO-100AF:  
5m: #70405  
10m: #70410  
15m: #70415

**Robust**

H2000 flex: Hyperflex 5  
5m: #70705 5m: #70905  
10m: #70710 10m: #70910  
15m: #70715 15m: #70915  
20m: #70720  
25m: #70725  
30m: #70730

# Common cable for GPS and Mode-S more than 30m cable

**Active Diapason Antenna 1090MHz**  
**#68200:**  
 Omni directional antenna with filter and amplifier  
 Native Antenna Gain: 2.5dBi  
 Amplifier Gain: 21dB  
 Noise Figure: <1dB  
 Size: 250mm long



**GPS Antenna**




**for 66914:**  
 5m: 70305  
 10m: 70310  
 avail. in 5m steps

**Coax cable**

**Standard:** Hyperflex 5  
 0.1m: #70151  
 1m: #70901  
**Robust:** Hyperflex 5  
 1m: #70901  
 5m: #70905

**Active Diapason Antenna 1090MHz**  
**#68200:**  
 Omni directional antenna with filter and amplifier  
 Native Antenna Gain: 2.5dBi  
 Amplifier Gain: 21dB  
 Noise Figure: <1dB  
 Size: 250mm long

**#66916:**  
 magnetic mounted GPS antenna  
 SMA connector, 5m cable  
**#66914:**  
 Outdoor GPS Antenna

**Cable Hyperflex 5**  
 Permitted attenuation up to 15dB  
 Standard coax:  
 20m: #70120  
 Hyperflex 5:  
 30m and more:  
 extension cables on demand  
 available in 5m steps

**#70151**

Pigtail  
 SMA/SMA



Pigtail  
 SMA/SMB



**#70551**

**Radarcape**



**#66006:**  
 Radarcape  
 Power Supply  
 LAN cable  
 excluding magn. GPS Antenna

**ADS-B/GPS Splitter**



**#71302**

**ADS-B/GPS Splitter**



**#71302**

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The Radarcape has best performances and technical features, but it is not certified and not for use in highly sensitive air traffic control environments. We do not give any warranty to the results and data. Any liability is excluded!

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The logo for jetvision, featuring the word "jetvision" in a bold, lowercase, sans-serif font. Above the letter "i" in "vision", there are three curved lines of increasing size, resembling a signal or Wi-Fi icon.

