

PlaneGadget - Radar - V2.0 USB ADS-B Receiver

Installation Guide

22/3/10

If you have any questions regarding installation please email tech@radargadgets.com

Its important to us that you are happy with your purchase, so if you are not completely happy consider that we offer a 7 day money back warranty.

Range varies according to where your antenna is situated and your geographical location. The PlaneGadget-Radar is not suitable for plugging into large wide band high gain antennas and works best with a good positioning of the supplied antenna.

This product has been tested and complies to the relevant standards for CE marking in the European Union



Safety Guidance – Please Read

Pointy end of antenna!

Although the antenna has a round end, please take care not to poke yourself with it! It's easy to place it on the window sill, then gaze out the window at the majestic aircraft sweeping by, the antenna below your chin and out of focus, out of sight, out of mind... A finger in the eye is not nice, so a slim antenna however blunt the end would be a bit worse I would imagine.

Take care where you use the receiver that you are doing so legally in the country and place of use. When you open the package you are asked to agree that you will not use the receiver in any way that is illegal within the country of use

Although most countries are very happy for aircraft enthusiasts to use equipment that relates to your hobby, in some countries you will be seen as breaking the law and may be arrested, especially if you are using your equipment in a sensitive place such as near an airport. This is not specifically about ADS-B virtual radar, but the use of air band receivers and even taking photos in the wrong place in the wrong country can land you in prison.

Recently we have seen aircraft enthusiasts get arrested in Greece for photographing aircraft and in India for listening on an air band radio to communications between the pilot and air traffic control.

So take care to ensure that your use of this equipment and other equipment you use is accepted and legal within the country and place of use.

Introduction

Thank you for purchasing the PlaneGadget-Radar USB receiver.

In the Box

- PlaneGadget-Radar USB receiver
- USB cable
- Installation CD
- Antenna
- Installation Guide
- User Guide

How to use this Installation Guide

This Installation Guide is divided into two sections

- Section 1: Vista 32 bit Driver Installation
- Section 2: Windows 2000 Driver Installation
- Section 3: Windows XP Driver Installation
- Section 4: Windows 7 Driver installation
- Section 5: Installation of PlanePlotterLite

On first installation you will need to install the PlaneGadget Radar device drivers and PlanePlotter software onto your PC.

Installing the PlaneGadget Radar device drivers is slightly different depending on which version of Microsoft Windows you have. So you need to follow the section below that relates to your specific operating system, whether it is Windows Vista, Windows XP, Windows 2000 or Windows 7.

After you have installed the device drivers move on to the section on installing PlanePlotter.

When you have completed the installation you can move onto the User Guide that contains information on how to operate your receiver.

Section 1: Installation – Vista 32 bit (Vista 64 bit is not supported)

1.1 Installation of the PlaneGadget Receiver

Put the CD supplied into your PC's drive and plug in the PlaneGadget-Radar receiver using the USB cable supplied.

The USB device will be detected and a window will appear.



Select the first option "Locate and install driver software". Windows will go off and try to find the drivers for a little while but then come back with this window



Double check you have the CD in the drive then select the NEXT button. You will then see this window:-



Select "Install this driver software anyway" and the next window will look like this:-



Your PlaneGadget Radar drivers are now installed, now move onto the section 5 on installing PlanePlotterLite.

Section 2: Installation – Windows 2000

2.1 Installation of the PlaneGadget Receiver

Plug in the PlaneGadget-Radar using the USB cable supplied.

The USB device will be detected and a window will appear.



Select Next

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
O Display a list of the known drivers for this device so that I can choose a specific driver
< <u>B</u> ack <u>N</u> ext > Cancel

Ensure "Search for a suitable driver for my device" is selected and push Next

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
PlaneGadget-Radar
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify. To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations: Floppy disk drives CD-ROM drives
Specify a location <u>M</u> icrosoft Windows Update
< <u>B</u> ack <u>N</u> ext > Cancel

Insert the PlaneGadget CD into the driver and Select Next

Found New Hardware Wizard
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
PlaneGadget Radar Comms Port
Windows found a driver for this device. To install the driver Windows found, click Next.
d:\planegadget-xp-and-win2000.inf
< Back Next > Cancel

Select Next and Finish on the next window

When installing PlanePlotter later you will need to know the COM port that has been allocated to the PlaneGadget Radar. Note that this will change if you move to another USB port, so try to plug the USB lead into the same port each time.

To find out which serial COM port has been allocated go to your Desktop and select My Computer



and Control Panel



From here select System

System Properties	? ×
General Network Identification Hardware User Profiles Advanced	
Hardware Wizard The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.	
Hardware Wizard	
Device Manager	
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.	
Driver Signing Device Manager	
Hardware Profiles	
Hardware profiles provide a way for you to set up and store different hardware configurations.	
Hardware Profiles	
OK Cancel Apply	

Under the System Properties select the Hardware tab, and click on Device Manager



Under Device Manager go down to Ports (COM & LPT) and click the + to open it up, you will see PlaneGadget Radar Comms Port (COM9) or whichever com port has been allocated. Remember this com port as you will need it when you install PlanePlotter.

Section 3: Installation – Windows XP

2.1 Installation of the PlaneGadget Receiver

Plug in the PlaneGadget-Radar using the USB cable.



Select next



Select Install from a list or specific location (Advanced)

Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
D:\ Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
<pre> Back Next > Cancel</pre>

Click Next with Search removable media box checked



Select Continue Anyway



Wait for Windows to install the driver



Click Finish to complete the install

You now need to check which serial com port has been allocated to the PlaneGadget Radar receiver.

When PlanePlotter is installed you need to know this com port.

Go to Start and select My Computer



Now select View System Information from the panel on the left hand side (under System Tasks) This opens the System Properties window, select the Hardware Tab.

System Pro	perties			? 🛛
System General	Restore	Automa	tic Updates Hardware	Remote Advanced
Device M	lanager The Device M	anager lists all	he hardware device	es installed
×	on your compu properties of a	iter. Üse the De ny device.	evice Manager to ch Device Ma	ange the
Drivers	Driver Signing compatible with how Windows Driver S	lets you make : n Windows. Wi connects to W Bigning	sure that installed dr ndows Update lets indows Update for d Windows L	ivers are you set up drivers. Jpdate
Hardware	e Profiles Hardware profi different hardw	les provide a w are configurati	ay for you to set up ons.	and store
			Hardware F	Profiles
		ОК	Cancel	Apply

Select the Device Manager button



Go down to Ports (COM & LPT) and click on the + to open it out as shown above. Now make a note of the port allocated to the PlaneGadget Radar Comms Port, its COM5 in the example above

And move onto Section 5 installing PlanePlotterLite

Section 4: Installation – Windows 7 32 bit (Windows 7 64 bit is not supported)

1.1 Installation of the PlaneGadget Receiver

Put the CD supplied into your PC's drive and plug in the PlaneGadget-Radar receiver using the USB cable supplied.

Windows will try to find the device and display



Click Close!

Now go to windows start (bottom left) and select Control Panel



Under Hardware and Sound, select View devices and printers



You will see the PlaneGadget-Radar near the bottom as here. Double Click on it and you will see

PlaneGadget-Rad	ar Properties
General Hardware	
PlaneG	adget-Radar
Device Informatio	n
Manufacturer:	Unavailable
Model:	PlaneGadget-Radar
Model number:	Unavailable
Categories:	Unknown
Description:	Unavailable
Device Tasks To view tasks for and Printers.	this device, right-click the icon for the device in Devices

Now select the Hardware Tab to show

PlaneGadget-Ra	dar Properties	X
General Hardwar	3	
Plane	Gadget-Radar	
Device Function	S	
Name		Туре
PlaneGadge	t-Radar	Other devices
Device Function	Summary Unknown	
Location:	Port_#0001.Hub_#0005	
Device status:	The drivers for this device are no	t installed. (Code 28)
		P <u>r</u> operties
	ОК	Cancel Apply

Select Properties bottom right

17	PlaneGadget-Ra	dar	
	Device type:	Other devices	
	Manufacturer:	Unknown	
	Location:	Port_#0001.Hub_#0005	
The The	drivers for this devic re is no driver selecte	e are not installed. (Code 28) ed for the device information set or element.	*
The The To f	drivers for this devic re is no driver selecte nd a driver for this de	e are not installed. (Code 28) ed for the device information set or element. evice, click Update Driver.	•
The The To f	drivers for this devic re is no driver selectu ind a driver for this de	e are not installed. (Code 28) ed for the device information set or element. evice, click Update Driver. <u>Update Driver</u>	•

Now Select Change settings bottom left

PlaneGadg	et-Radar Prope	rties
General	Driver Details	
1.	PlaneGadget-Rada	ar
	Device type:	Other devices
	Manufacturer:	Unknown
	Location:	Port_#0001.Hub_#0005
Device	e status drivers for this device : e is no driver selected nd a driver for this devi	are not installed. (Code 28)
		Update Driver
		OK Cancel

And select Update Driver



Navigate and select the folder for your CD drive



And select OK

G I Update Driver Software - PlaneGadget-Radar
Browse for driver software on your computer
Search for driver software in this location:
Include subfolders
Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
Next Cancel

Once the CD drive is selected click Next



Select "Install this driver software anyway" and the next window will look like this:-

Found New Hardware - PlaneGadget Radar Comms Port (COM6)	-
The software for this device has been successfully installed	
Windows has finished installing the driver software for this device:	
PlaneGadget Radar Comms Port	
	Close

Don't close this window yet...look at the COM port allocation first...its COM6 above in this example. We will need this when we install planeplotter.

Your PlaneGadget Radar drivers are now installed, now move onto the section 5 on installing PlanePlotterLite.

Section 5: Installation of PlanePlotterLite

IF YOU HAVE A LICENSED COPY OF THE FULL VERSION OF PLANEPLOTTER DO NOT INSTALL PLANEPLOTTERLITE. DOING SO WILL OVERWRITE YOUR SETTINGS

Navigate to your drive with the PlaneGadget CD and double click to run PlanePlotterLite.exe this will start the installation of the software. You may get a warning message asking if you really want to run this program if you have Vista or Windows 7, just click yes or ok.

You should now see

🛪 Setup - PlanePlotter				
	Welcome to the PlanePlotter Setup Wizard			
	This will install PlanePlotter 5.4.7.2pg on your computer.			
	It is recommended that you close all other applications before continuing.			
	Click Next to continue, or Cancel to exit Setup.			
	Next> Cancel			

Click Next



Read and Select "I accept the agreement" then click Next



Select Next

Select Start Menu Folder	
Where should Setup place the prog	ram's shortcuts?
Setup will create the program	m's shortcuts in the following Start Menu folder.
To continue, click Next. If you would	like to select a different folder, click Browse.
PlanePlotter	B <u>r</u> owse
Don't create a Start Menu folder	

Select Next

Setup - PlanePlotter	30,492,3989 1313	- • ×
Select Additional Tasks Which additional tasks should be performed?		Ð
Select the additional tasks you would like Setu click Next.	p to perform while installing P	lanePlotter, then
Additional icons:		
Create a <u>d</u> esktop icon		
	< Back Next	> Cancel

Select Next

Setup is now ready to begin installing	PlanePlotter on your computer.	0
Click Install to continue with the install	ation or click Back if you want to review or change	anv
settings.	such, of click back if you want to review of change	any
Destination location: C:\Program Files\COAA\PlanePlo	tter	*
Start Menu folder: PlanePlotter		
Additional tasks: Additional icons: Create a desktop icon		
		-
		1

Select Install

Once the program has installed a box will pop up



Now you should have, if you have been following the manual in the right order! If you have not select No and install the receiver as laid out in the previous pages of this manual and then run the PlanePlotterLite software by using the desktop short cut or launching from the Start Menu on windows

Assuming you selected YES



Now you should have noted the COM port of your receiver when you installed it a little while ago. If you have it then click YES otherwise if you click NO Windows Device Manager will open allowing you to find out what port it is.

After confirming the next dialog you will see

Receiver Comm Port	×
Comms port Comms port data	4 115200
Cancel	ОК

Insert your com port number into the box at the top. Leave the lower Comms port data rate as it is set by default. In the above case our com port is 4. Select OK when you have entered your com port number.



PlanePlotter needs to know where you are, this will be entered in Latitude and Longitude. If you know this position select Yes, otherwise

If you select No you get this window you will be asked if you want to launch MiltiMap to find your location.

If you click YES you can enter your Latitude and Longitude

Home Location		×	
Home Latit	ude (eg N37 11.4)	N51 40.8800	
Home Longitude (eg W8 36.0)		W001 04.6300	
Cancel	Test	ОК	

You can see we have entered the position of our office here. Clicking Test will show a little close up map for you to check, or OK to move on.



Most people would select Yes to the map here. You can change these things later in the menus of PlanePlotter so if you want to look at other map options later you can. So select Yes for now.



You have now finished installing PlanePlotterLite. Note the helpful hint! In order to see aircraft from your receiver you need to click on the little green start button in the tool bar top left.

It looks like this...

<u>F</u> ile	View	Pro	oces	s (
) 🖻	0 -	\sim	1	X
teigne	- K	1	(P)	1
3	2 h	aam	insta	AT.

But on this occasion the program has already done this for you.

You should now see aircraft starting to be plotted on your map. Like this



Now move onto the PlaneGadget User guide and/or see the online help to learn more about how to use PlanePlotterLite and PlaneGadget-Radar

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