

Reality XP 430/530 WAAS Hardware Driver

User's Manual



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About this manual

This manual is intended for flight simulation purposes only, and shall not be used for any real world aviation application or reference.

This manual is intentionally written using “gray scale” colored text in many areas, and much of the print is intentionally this medium gray color. This has been done to conserve ink while printing. In some cases, “black” type has been used for emphasis. Photographs used in this manual have also been reduced to black and white, and also in contrast in order to conserve ink. Please be sure to double-check your printer’s settings prior to printing in order to achieve the best results. We have tested, and experienced no issues printing this manual on laser printers. If you are experiencing a problem using a laser printer, you should check the printer’s quality settings.

By reading this manual, you should become well acquainted with the product, and should be able to obtain the information necessary to “fly” the product within your flight simulator program.

Please take the time to read this manual completely; so that you can become properly acquainted with the product and its operation.

We thank you for having chosen a Reality XP Product and wish you a pleasant and a safe virtual flight with us.

Important information

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www.reality-xp.com

Standard Disclaimer

This software is designed **for entertainment only**. Although we have designed the product to resemble and function like the original, it is not designed as a training device. Not all systems have been simulated, and some of those that have been simulated may not be entirely functional.

NOT FOR USE IN REAL FLIGHT OR AIRCRAFT OPERATION.

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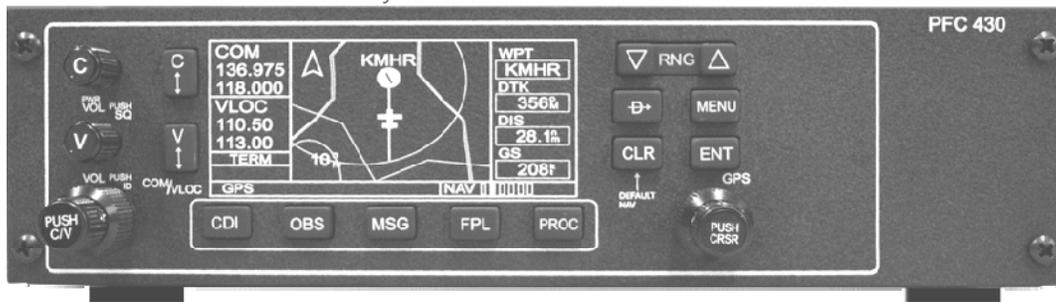
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GNS 430W/530W Hardware Driver



Reality XP GNS 430W/530W Simulation



Precision Flight Controls GPS Control Interface

The GNS 430W/530W Hardware Driver is a software module enabling the connection between the Reality XP GNS 430W/530W Software Simulation products and a selected list of hardware devices.

Installation

The software installer copies the necessary files to enable the hardware driver link between the flight simulation host platform, the Reality XP GNS 430W/530W Simulation and the hardware peripheral/control interface. In addition, the hardware driver can connect the default GPS simulation, already available in the host platform, to the hardware.

List of supported hardware

The GNS 430W/530W Hardware Driver supports the following hardware devices:

Precision Flight Controls (www.flypfc.com):

- PFC 430 Control Head Standalone
- PFC 430 Control Head included in PFC Avionics Stack

List of supported simulation platforms

Laminar Research X-Plane 9 (www.x-plane.com):

The Hardware Driver links the supported hardware to the Reality XP GNS 430W/530W and the Reality XP GNS 430W/530W Professional. It is included in the Reality XP GNS WAAS plugin for XPlane 9 and is automatically activated upon authenticating the Hardware Driver license.

A PFC driver, available separately from PFC, also permits controlling X-Plane's default GPS.

Microsoft Flight Simulator 9, FSX & ESP (www.microsoft.com):

The Hardware Driver comes in the form of a Flight Simulator Module, compatible with both FS9 and FSX, and links the default Flight Simulator GPS with the supported hardware. There is no manual setting: the driver automatically connects and links the default GPS to the first supported hardware it detects connected to the USB ports.

When using the Reality XP GNS 430W/530W or the Reality XP GNS 430W/530W Professional for Flight Simulator, the driver requires additional settings to configure and connect these gauges to the hardware. Refer to the Reality XP GNS 430W/530W products documentation for additional configuration information.

Configuration

Driver configuration is managed with the supported products configuration options. Hardware detection can be automatic. For example, the Reality XP GNS 430W/530W for X-Plane offers additional menu options to link the hardware device to the simulation software when a supported hardware is plugged into the computer.

Refer to the supported products documentation for additional configuration information.

Special Notes for FSX/ESP: DLL.XML

The GNS Hardware Driver comes in the form of a Flight Simulator module:

```
[FSX|ESP]\Modules\rxpGnsDriver.dll
```

The GNS WAAS Hardware Driver places the following entry in your DLL.XML file. These entries should be located above the last line of the DLL.XML file, and should not be located at the top of the file ahead of the file headers:

```
<Launch.Addon>
  <Name>Reality XP GNS WAAS Hardware</Name>
  <Disabled>False</Disabled>
  <ManualLoad>False</ManualLoad>
  <Path>Modules\rxpGnsDriver.dll</Path>
</Launch.Addon>
```

If your DLL.XML is missing these entries, or if the entries appear outside of the <SimBase.Document> tag, or at the very top or bottom of the file then you should fix your DLL.XML file.

The most simple DLL.XML file for FSX/ESP should contain the following for the GNS WAAS Hardware Driver to work:

```
<?xml version="1.0" encoding="Windows-1252" ?>
<SimBase.Document Type="Launch" version="1,0">
  <Descr>Launch</Descr>
  <Filename>dll.xml</Filename>
  <Disabled>False</Disabled>
  <Launch.ManualLoad>False</Launch.ManualLoad>
  <Launch.Addon>
    <Name>Reality XP GNS WAAS Hardware</Name>
    <Disabled>False</Disabled>
    <ManualLoad>False</ManualLoad>
    <Path>Modules\rxpGnsDriver.dll</Path>
  </Launch.Addon>
</SimBase.Document>
```

GNS 430W/530W Simulation Overview

The GNS 430W/530W is a comprehensive full-featured radio and navigation stack. The Reality XP GNS simulation is a faithful reproduction that pilots and simmers can use it as a training tool to familiarize themselves with the workings of the actual equipment. Each button and knob is fully functional and performs identically to its real-world counterpart.



GNS 430 WAAS in the XScenery MU-2 Marquise

The GNS 430W/530W comes with built-in WAAS navigation capabilities, and is capable to fly LPV “glideslope” approaches without reference to ground-based nav aids of any kind. Featuring an advanced 15-channel receiver capable of five position updates per second, GNS WAAS meets the FAA’s stringent TSO C146a standards for WAAS “sole means” navigation — providing vertical and lateral approach guidance into thousands of U.S. airports previously inaccessible in IFR conditions

Product Support

You should read this manual, and the others included with this product from cover to cover before asking for support or help with this product. We have found that over 95% of all product support questions can be answered by reading the manual.

You can visit the Reality XP General Forum for general customer service issues.at:

<http://www.reality-xp.com/community/users.htm>

While anyone may read this support forum, you will need to register in order to post a question or reply with an answer. Support at this forum may be provided by any one of the following individuals:

1. Members of the Development / Publishing Team.
2. Members of the product's beta testing team.
3. Knowledgeable users of the product who know the correct answer.

If you still require help: Product support is available through our online help system. Please visit <http://www.reality-xp.com> for additional support information.

Thank you.