

# Reality XP 430XP/530XP WAAS Unlimited

## 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 Flight Simulator.

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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### 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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## GNS 430XP/530XP WAAS Unlimited Overview

GNS 430XP/530XP WAAS Unlimited is an expansion pack to the award winning Reality XP GNS 430XP/530XP WAAS simulation and requires purchasing either or both the GNS 430XP WAAS and the GNS 530XP WAAS.

GNS WAAS Unlimited adds the following features to the simulation:

- 1) Support for running two GNS of the same model, like 430+430 or 530+530 in addition to mixed models (430+530)
- 2) Support for Cross Fill between two units.
- 3) Support for Ryan 9900BX TCAD (Traffic Information).
- 4) Updated GNS WAAS Config both for FSX and FS9 offering access to the new parameters and capabilities.

## GNS WAAS Config

The new GNS WAAS Config, included with GNS WAAS Unlimited, automatically detects the installation of the GNS WAAS Unlimited expansion pack in looking for either of the following files: `X:\RealityXP\RXP-GNS-UNLIM.lic` and `X:\Windows\RXP-GNS-UNLIM.lic` (with X being the windows system drive).

It offers additional settings pertaining to the GNS WAAS Unlimited, including TCAD and Cross Fill options.

## Additional Gauge Names

The GNS 430XP/530XP WAAS Unlimited offers two new gauges:

- 1) `rxpGNS!GNS530_2`
- 2) `rxpGNS!GNS430_2`

Select a combination of `rxpGNS!GNS430` and `rxpGNS!GNS430_2` on a panel for a dual GNS 430XP WAAS setup, and similarly with the GNS 530XP WAAS.

## Special Notes for Cross-Fill

Cross-fill requires two GNS gauges configured on the panel, with their respective "CrossFill" setting enabled with GNS WAAS Config. The simulation automatically connects the two GNS gauges together.

Use GNS WAAS Config to enable the option on each unit.

## Special Notes for TCAD

GNS WAAS Unlimited features a Ryan 9900BX TCAD interface to the GNS WAAS Simulation. The solution includes a TCASII Mark7 simulation configured in TA mode only, and due to the nature of the various TCAD algorithms, the output may slightly differ from what a real Ryan 9900BX would show. In most cases, it will be very close.

The GNS WAAS offers access to the Ryan 9900BX device through its own menus but only those pertaining to displaying targets are implemented.

A gauge configured for TCAD with GNS WAAS Config automatically monitors, computes, and displays the traffic around the aircraft. Like with a real 9900BX TCAD, only the most significant 4 to 12 targets will be displayed.

Use GNS WAAS Config to enable the option on your unit.

Note: for best performance, we recommend enabling TCAD on one GNS only, instead of both, when using a dual GNS aircraft panel.

## 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.