



Australia Addendum to SkyEcho Installation and Pilot's Guide



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1 Revision History

Revision	Date	Comments
A	5/1/2022	Initial release migrating contents from Revision L of SkyEcho Installation and Pilot's Guide

2 Warnings / Disclaimers

The following required statement from the Federal Communications Commission (FCC) **applies to United States based entities with the exception of direct sales to the U.S. Government and units directly exported by uAvionix.**

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be offered for sale or lease, or sold or leased, until authorization is obtained.

All device operational procedures must be learned on the ground.

Received traffic information is to be used as an aid to situational awareness and is merely supplemental and advisory in nature.

uAvionix is not liable for damages arising from the use or misuse of this product.

This equipment is classified by the United States Department of Commerce's Bureau of Industry and Security (BIS) as Export Control Classification Number (ECCN) 7A994.

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

3 Limited Warranty

uAvionix SkyEcho products are warranted to be free from defects in material and workmanship for one year from purchase. For the duration of the warranty period, uAvionix, at its sole option, will repair or replace any product which fails in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost.

This warranty does not apply to cosmetic damage, consumable parts, damage caused by accident, dropping, abuse, misuse, water, fire or flood, damage caused by unauthorized servicing, or product that has been modified or altered.

IN NO EVENT SHALL UAVIONIX BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Warranty Service

Warranty repair service shall be provided directly by uAvionix.

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5 International Use Limitations

At the time of publishing of this revision, portable ADS-B OUT transmitters are not permitted for global use (including the United States). Operating SkyEcho outside of approved airspace, the transmit function must be disabled. SkyEcho can be used as a receiver in all locations.

6 Australia Use

In Australia, EC devices are intended for voluntary fitment on registered and non-registered aircraft conducting VFR operations. They are not permitted for IFR operations.

The fitment is not a substitute for mandatory carriage of a transponder nor mandatory ADS-B in relevant airspace. In addition, they must not be allowed to transmit when

- (a) in VFR flight at or above FL290; or
- (b) concurrently with a Mode S transponder that is also transmitting ADS-B. An EC device may be operated in Australia concurrently with a Mode A/C, or a Mode S transponder (other than one that is transmitting ADS-B). UAT is NOT used nor permitted in Australia

CASA regulations are at

<https://www.legislation.gov.au/Details/F2020L00693>

An AC is available at <https://www.casa.gov.au/files/ac-91-23-v10>

CASA ADS-B guidance is at <https://www.casa.gov.au/book-page/chapter-4-surveillance-and-ads-b>

6.1 CASA Statement of Compliance

An EC device must have a statement of compliance from the EC device manufacturer certifying that the device meets the requirements 1 to 5 of CAO20:18 Part B Appendix XIV before you can legally use it on board an aircraft. The pilot in command of the aircraft is responsible for ensuring that the EC device has a valid declaration and that the declaration is carried on board.

SkyEcho meets the requirements of 1 to 5 of CAO20:18 Part B Appendix XIV. Since SkyEcho contains an internal pressure altitude sensor, if used within a pressurized cockpit, the transmitted pressure altitude may be erroneous and may not comply with CASA standards and deviation requirements. For this reason, SkyEcho should be used only in unpressurized aircraft when the transmit function is enabled.

Please refer to the CASA EC Web page for more information:

<https://www.casa.gov.au/airspace/electronic-conspicuity-devices>

Ref No	Issue No	Manufacturer	Type No	Category
D20/281172	uAvionix Corporation	SkyEcho 2	0 (original product)	Intermediate

Mode-S or ATCRBS Limitations According to CASA regulations, if the aircraft has an operating Mode-S transponder with ADS-B OUT capability, the SkyEcho transmitter must be deactivated. Receive functionality may still be used. Deactivation of the transmitter is accomplished by removing device power or disabling the transmit capability via the configuration settings. These regulations are subject to change. Please be informed of the most current regulations at:

<https://www.casa.gov.au/airspace/electronic-conspicuity-devices>

6.2 Country Specific Configuration Items

The following configuration items augment the configuration instructions found in the SkyEcho Installation and Pilot's Guide with Australia specific information.

6.2.1 Transmit Control

Transmission must be deactivated when used on an aircraft with an air traffic control radar beacon system (ATCRBS) Mode-S transponder which has ADS-B OUT enabled.

6.2.2 Receiver Mode

FLARM reception is not compatible with Australian FLARM systems.

6.2.3 Call Sign

CALL SIGN is an 8-digit code that corresponds to

- The VH registration mark alone if the call sign is the abbreviated version of the registration (e.g. for VH-ABC, only ABC should be entered without dashes for domestic operations)
- The designator corresponding to a particular call sign approved by Airservices Australia or the Australian Defence Force (e.g. SPTR3 for Firespotter 3, ROLR45 for Roller 45)
- The designator corresponding to a particular call sign in accordance with the operations manual of the relevant recreational aircraft administrative organisation (e.g. G123 for Gyroplane 123). Don't add any leading zeros, hyphens, dashes or spaces to the callsign.

- Eg : for Recreational Aviation Aircraft (RAAus) this should be programmed as “R” then the last four digit identifiers in the aircraft registration e.g. R1234.

7 Contact uAvionix

For additional questions or support please visit <http://uavionix.com/support>