



New Zealand 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. Inclusion of AC43-14 language

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 New Zealand Use

In New Zealand, an ADS-B device for awareness in addition to ADS-B IN may offer ADS-B out in the form of TABS or Electronic Conspicuity such as skyEcho. The ADS-B OUT operation of these devices does not meet the performance requirements as required by rule 91.257 as documented in CAA Notice of requirement NTC 91.258.

These devices must not be used as an ADS-B OUT solution to enter controlled airspace unless otherwise authorized or instructed by ATC under the provisions of rule 91.247(a).

The fitment is not a substitute for mandatory carriage of a transponder nor mandatory ADS-B in relevant airspace, or concurrently with a Mode S transponder that is also transmitting ADS-B. An EC device may be operated in New Zealand 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 New Zealand

6.1 Mode-S or ATCRBS Limitations

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 power or disabling the transmit capability via the configuration settings. These regulations are subject to change.

6.2 Country Specific Configuration Items

The following configuration items augment the configuration instructions found in the SkyEcho Installation and Pilot's Guide with New Zealand 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 New Zealand FLARM systems.

6.2.3 Aircraft Address

New Zealand aircraft addresses are allocated by CAA and can be found at <https://aviation.govt.nz/aircraft/aircraft-registration/aircraft-register-search/>

6.2.4 flightID

The flightID should be entered without spaces or dashes i.e. ZKABC

6.2.5 VFR Codes

The VFR code 1200 should be used for Airplanes and 1500 for Rotorcraft

6.2.6 Mounting

The ADS-B device must not be mounted where it obstructs the pilot's view from the cockpit. Suction devices must not be used to mount ADS-B equipment, regardless if they were supplied with the device.

CAA Note in AC43-14: Suction cups are unreliable to retain a device during flight, exposure to sunlight and reducing ambient pressure (decreasing the pressure differential offered by the suction) reduce the performance and provide a hazard to the occupants when the device loses its retention.

We recommend using a commercially off the shelf clamp mount, such as standard RAM ball clamps or any standard camera clamp using a 1/4-20 standard thread. When using a 1/4-20 thread connection, do not use anaerobic thread lock on or be very careful due to risk of cracking. The best 1/4-20 thread options are those with a locking feature that allows you to secure the connection and prevent rotation such as the examples below:



7 Contact uAvionix

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