

Regulatory and Safety Guide

WaveCore 1000RH



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Customer

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Introduction

This document contains the safety and regulatory compliance information for the following Airvine WaveCore Products:

<u>WaveCore Model</u>	<u>Country/Certification</u>
1000RH-US	USA FCC Class B, Canada ISED Class B Device 6 GHz: FCC 15E, ISED RSS-248 2.4 GHz: FCC 15.247, ISED RSS-247 Safety: EN/IEC/UL 62368-1
1000RH-RW	EU Countries, UK, Radio Equipment Directive, CE Mark 6 GHz: EN 303 687 2.4 GHz: EN 300 328 Safety: EN/IEC/UL 62368-1

Safety Warnings

All products are intended to be installed, used, and maintained by experienced and trained professional personnel only.

When installing and using these products, safety precautions should always be carefully followed to reduce the risk of fire, electrical shock, injury to persons, and damage to the system.

Such safety precautions including the following:

- Read the installation instructions before using, installing, or connecting the system to the power source.
- Only skilled, instructed, and qualified personnel should be allowed to install, replace, or service this equipment. A skilled person has the relevant experience to be able to identify hazards and to take appropriate action to reduce risks of injury to themselves and others. An instructed person is one who is instructed or supervised by a skilled person regarding energy sources and who can responsibly use equipment and precautionary safeguards with respect to those energy sources.
- Devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation.
- Installation of these products in the end use environments must conform to all applicable national and local regulations and codes including all relevant electrical codes.
- Devices are to be used with and powered only by power sources that are either provided by Airvine or recommended by Airvine. Failure to properly power the unit, which includes using power sources that don't comply to the system's required input voltage or current ranges, or the use of unapproved power sources, or the failure to not properly connect the power sources to the system's power connector, can result in possible injury or permanent damage to the unit.
- Ultimate disposal of this product should be handled according to all national laws and regulations.
- No user-serviceable parts inside; all repairs and services must be handled by a qualified Airvine service center.
- To avoid the risk of electric shock or damage to the unit, do not open the unit or remove any covers.
- Do not insert any objects inside these devices while powered on. Such objects may contact hazardous energy parts that could result in a risk of fire, personal injury, or damage to the unit.
- Do not remove or alter the markings or labels affixed to these devices.

US and Canada Restrictions

- FCC and ISSED regulations restrict and limit operation of these devices to indoor use only.
- FCC and ISSED regulations prohibit operation of these devices on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying about 10,000 feet only in the 5.925-6.425 GHz band.
- FCC and ISSED regulations prohibit these devices to be used for control of or communications with unmanned aircraft systems, including drones.

Symbols on Equipment or Documentation



DANGER

DANGER statements indicate potentially hazardous situations including those that could cause loss of life or physical injury.



CAUTION

CAUTION statements alert a possibility of damage to the system, software, or individual items or parts of equipment withing a system. However, this damage presents no danger to a person.



NOTE

A NOTE provides a tip, guidance, or advice and can emphasize important information.

Important Regulatory Notices

FCC Communications Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice for FCC Class B Equipment - Models: WaveCore 1000RH-US

**Caution**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Notice for Equipment Modifications

**CAUTION**

Do not modify the equipment. Any changes or modifications not expressly approved by Airvine Scientific Inc. could void the user's authority to operate the equipment.

FCC Notice for UNII Devices Operating under Part 15E, Section 407

**CAUTION**

The country code selection feature is for non-US models only and is not available on the US model. The US model is restricted to operating only on frequencies and at power levels expressly authorized by FCC Rules and Regulations.

FCC Notice for Equipment Operating in the 5.925 GHz to 7.125 GHz Band

**CAUTION**

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in aircraft while flying above 10,000 feet.

The operation of this device is also prohibited for control of or communications with unmanned aircraft systems.

FCC Notice for RF Exposure

**CAUTION**

The antenna used with this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

Regulatory Notices for Canada - Model 1000RH-US

Canada General Notice

**CAUTION**

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L' émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L' exploitation est autorisée aux deux conditions suivantes:

1. L' appareil ne doit pas produire de brouillage
2. L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

Canada Notice for Class B Equipment

**CAUTION**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. CAN ICES-3(B)/NMB-3(B)

Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Canada Notice for Equipment Operating in the 5.925 GHz to 7.125 GHz Band

**CAUTION**

Devices shall not be used for control of or communications with unmanned aircraft systems.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in aircraft while flying above 10,000 feet. The operation of this device is also prohibited for control of or communications with unmanned aircraft systems.

L' appareil ne doit pas être utilisés pour contrôler ou communiquer avec des systèmes d'aéronefs sans pilote.

L'utilisation de cet appareil est interdite sur les plateformes pétrolières, les voitures, les trains, les bateaux et les avions, à l'exception de l'utilisation de cet appareil dans les avions volant à plus de 10 000 pieds. L'utilisation de cet appareil est également interdite pour contrôler ou communiquer avec des systèmes d'aéronefs sans pilote.

Regulatory Notices for European Union - Model 1000RH-RW

General

This section provides required notices for Airvine products listed as having CE Mark for distribution in Europe.

- 2014 / 53 / EU of the European Parliament and of the Council of 16 April 2014 on the harmonization of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 19 99 / 5/ EC; Radio Equipment Directive (RED) and amendments.
- 2011 / 65 / EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and amendments.

CE Compliance



AT	FI	IT	PL	UK	RO
BE	FR	LV	PT	IS	TR
CY	DE	LT	SK	LI	HR
CZ	EL	LU	SI	NO	
DK	HU	MT	ES	CH	
EE	IE	NL	SE	BG	

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

The frequency and the maximum transmitted power (dBm) in EU are listed below:

Europe Maximum Radio Frequency Power

Model	Frequency Band	EU Countries	UK
1000RH-RW	6 GHz (5925 to 6425 MHz)	23 dBm	23 dBm
	2.4 GHz (2412 to 2462 MHz)	20 dBm	20 dBm

Additional Europe Specific Regulatory Information

Usage of Hazardous Chemicals

Airvine Models that employ the CE Mark comply with European Union Directive 2011/65/EU rules of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive).

Disposal of Airvine Equipment

Airvine Models that employ the CE Mark and WEEE Markings comply with European Union Directive 2012/19/EU rules on Waste Electrical and Electronic Equipment (WEEE Directive).

Instructions on how to dispose of end-of-life Airvine Equipment can be found at:

www.airvine.com/support/regulatory/weee

Customers must always follow national and local regulations regarding the disposal of Airvine Equipment.

Disposal of Product Packaging

Customers must always follow national and local regulations regarding the disposal of product packaging.