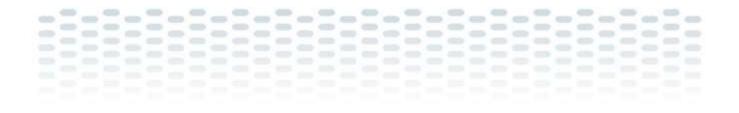


Airvine™ Regulatory and Safety Guide



Page | 1 Feb 7th, 2024



DISCLAIMER

Airvine Scientific ("Airvine") makes no representation or warranties with respect to the contents hereof and specifically disclaims any implied warranties or merchantability or fitness for any particular purpose. Further, Airvine reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Airvine to notify any person of such revision or changes.

Copyright © 2023 by Airvine Scientific.

All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, magnetic, optical, chemical, manual, or otherwise, without the prior written permission of Airvine Scientific.

Page | 2 Feb 7th, 2024



Contents

Introduction	4
Safety Warnings	4
Symbols on Equipment or Documentation	
Important Regulatory Notices	5
FCC Communications Notices	5
Regulatory Notices for Canada	6
Models: WaveTunnel 2041DC	Error! Bookmark not defined.
Regulatory Notices for European Union – Model 2041DC	7
Additional Europe Specific Regulatory Information	8
Airvine Declaration of Conformity Statements.	9



Introduction

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

Product Model	Country/Certification	
Airvine WaveTunnel Model 2041-SM	USA FCC, Class A Device	
Airvine WaveTunnel Model 2041-DC	USA FCC, Canada ICES (Class A Device), and Europe (CE Mark)	

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 trained and qualified personnel should be allowed to install, replace, or service this equipment.
- 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 unit or remove any covers of the unit.
- Do not insert any objects of any shape or size 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.

Airvine devices are for indoor use only and are not meant to be installed outdoors.

Page | 4 Feb 7th, 2024



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 A Equipment - Models: WaveTunnel 2041SM and 2041DC



Caution

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Page | 5 Feb 7th, 2024



FCC Notice for Equipment Modifications



CAUTION

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

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 2041DC

General



CAUTION

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Class A Equipment



CAUTION

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

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

Page | 6 Feb 7th, 2024



Regulatory Notices for European Union - Model 2041DC

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	. wood of
DK	HU	MT	ES	СН	
EE	ΙE	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 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	Maximum Radio Frequency Power (dBm EIRP)
2041SM, 2041AC, 2041DC	2.4 Ghz	19.98
	(2412 to 2464 MHz)	
	60 GHz	35 dBm

Europe Transmitter Power Levels (at antenna port)

Model	Frequency Band	Mode	Channels	Data Rates	Transmit Output Power in dBm (typical)
2041SM,	60 GHz	N/A	1-6	All Rates	35 dBm
2041AC	(57.24 to 68.04 GHz)				
	2.4 GHz	802.11b	1-11	All Rates	12 +3.0/-2.0
	(2.412 to 2.464 GHz)	802.11g	1-11	All Rates	13 +3.0/-2.0
		802.11n ¹	1-11	All Rates	13 +3.0/-2.0

Page | 7 Feb 7th, 2024

¹ 20 MHz 801.11n Channel



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.

Page | 8 Feb 7th, 2024



Airvine Declaration of Conformity Statements.

DECLARATION OF CONFORMITY

hereby declare that the product	
Product Name: WaveTunnel	
Model Number(s): 2041DC	
satisfies all the technical regulations applicable to Directives 2014/53/EU, 2014/35/EU and 2014/30 been lodged with any other notified body.	o the product within the scope of Council 0/EU: and declare that the same application has not
EN IEC 62368-1:2020+A11:2020, EN 62311:200	08
EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4	
EN 55032:2015/A11:2020, EN 55035:2017/A11:	2020
EN 303 722 V1.2.1	
EN 300 328 V2.2.2:2019	
NOTIFIED BODY: MiCOM Labs Inc Address:	
575 Boulder Court.	
Pleasanton, California 94566	
USA	
Identification Number: 2280	
MANUFACTURER: - Address:	IMPORTER: - Address:
Airvine Scientific, Inc	We declare that this information will be
1500 Wyatt Drive, Suite 9	provided either here or on accompanying
Santa Clara, CA 95054 USA	documentation at the time of importation.
This declaration is issued under the sole response representative.	sibility of the manufacturer and, if applicable, his authori
Point of contact:	
Airvine Scientific Inc., TEL: 669-231-4318, F	AX: 669-231-4398
	Thentt. Then
Santa Clara, CA 30 January 2024	and one
(Place, date of issue)	(Signature)
	Robert Olstad / Sr. Director Product
	Management

(Name and title in block letters)