

# **TEST REPORT**

# FCC Part 15 Subpart C Section 15.249 IC RSS-210 Issue 8 Annex 2 Section A2.9 IC RSS-Gen Issue 3

MANUFACTURER'S NAME Motorguide

1016 N Monroe Street Lowell MI 49331

PRODUCT NAME ASM-FT Pedal, INC, WRLS, Patch antenna

001009291 MODEL NUMBER(S) TESTED

SERIAL NUMBER(S) TESTED NA

PRODUCT DESCRIPTION Foot actuated remote to control fishing trolling motor

NC1305643.2 TEST REPORT NUMBER

TEST DATE(S) 14-19 August 2013

TÜV SÜD America Inc, as an independent testing laboratory, declares that the equipment tested as specified above conforms to the applicable EMC requirements of FCC Part 15 Subpart C Sections 15.249 "Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHZ, and 24.0-24.25 GHz" and IC RSS-210 "Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment" and IC RSS-Gen "General Requirements and Information for the Certification of Radiocommunication Equipment".

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

Date: 27 August 2013

USA

Taylors Falls MN

Location:

Joel T Schneider

Spel T. Sohneise

Not Transferable

Senior EMC Technician Senior EMC Engineer

Il Japubowski

Greg S Jakubowski

TÜV SÜD AMERICA INC 19333 Wild Mountain Road Taylors Falls MN 55084 Tel: (651) 638-0297 Fax: (651) 638-0298 Rev. 113006



# **EMC TEST REPORT**

Test Report No.	NC1305643.2	Date of issue: 2	7 August 2013
Don't at Name	AOM ET D. J. J. INO. N	MDI O Detale estado	
Product Name	ASM-FT Pedal, INC, \	VRLS, Patch antenna	
Model(s) Tested	001009291		
Serial No(s) Tested	NA		
Product Description	Foot actuated remote	to control fishing trolling motor	
Manufacturer	Motorguide		
	1016 N Monroe Stree		
	Lowell MI 49331		
Test Result	■ Positive	☐ Negative	

TÜV SÜD America Inc reports apply only to the specific samples tested under stated test conditions. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. TÜV SÜD America Inc shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD America Inc issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval. This report shall not be used by the client to claim product endorsement by NVLAP, NIST, or any agency of the US government.

> TÜV SÜD America Inc and its professional staff hold government and professional organization certifications and are members of AAMI, ACIL, AEA, ANSI, IEEE, NARTE, and VCCI.

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### **REVISION RECORD**

REVISION	TOTAL NUMBER OF PAGES	DATE	DESCRIPTION
	22	27 August 2013	Initial Release



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TestPlan / CDF



#### **EMC TEST REGULATIONS:**

The tests were performed according to the following regulations:

FCC Part 15 Subpart C §15.249 IC RSS-210 Issue 8 Annex 2 Section A2.9 IC RSS-Gen Issue 3

#### **ENVIRONMENTAL CONDITIONS IN THE LAB**

Actual Temperature: : 25°C Atmospheric pressure : 99kPa Relative Humidity : 50%

**POWER SUPPLY UTILIZED** 

Power supply system : 3 VDC battery

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#### **TEST EQUIPMENT**

All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated according to internal procedure.

#### MEASUREMENT UNCERTAINTY

The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system has a measurement uncertainty of ±1.8 dB. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. The test system has a measurement uncertainty of ±4.8 dB. All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated according to internal procedure.

#### SIGN EXPLANATIONS

□ - not applicable

■ - applicable

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### Radiated Emissions 30 - 24835 MHz FCC 15.249(a), (c), (d), IC RSS-210 Annex 2 Section A2.9

#### **Test summary**

The requirements are: ■ - MET □ - NOT MET

Testing was performed in accordance with the test procedure of ANSI C63.4 2009, clause 8.3.

Maximum peak fundamental reading is 94.67 dB $\mu$ V/m (54.1 mV/m) at 3 meters at 2.48 GHz.(limit 500 mV/m)

Maximum average fundamental reading is 93.12 dB<sub>μ</sub>V/m (45.2 mV/m) at 3 meters at 2.48 GHz.(limit 50 mV/m)

Maximum peak harmonic reading is 58.03 dB<sub>μ</sub>V/m (797 μV/m) at 3 meters at 7.44 GHz.(limit 5000 μV/m)

Maximum average harmonic reading is 48.98 dB $\mu$ V/m (281  $\mu$ V/m) at 3 meters at 7.44 GHz.(limit 500  $\mu$ V/m)

No other spurious radiated emissions were detected other than harmonics.

#### **Test location**

Wild River Lab Large Test Site (Open Area Test Site)

#### **Test distance**

3 meters

	_			
100+	$-\sim$		nm	nn+
Test	Eu	uII	UHI	CIIL

TUV ID	Model	Manufacturer	Description	Serial	Cal Due
WRLE03204	EM-6917B	Electro-Metrics	Biconicalog Periodic	102	30-May-14
WRLE03295	85662A	Hewlett-Packard	Analyzer Display	2349A06144	22-Apr-14
WRLE02689	8566B	Hewlett-Packard	Spectrum Analyzer	2416A00321	22-Apr-14
NBLE02683	85650A	Hewlett-Packard	Quasi-peak Adapter	2430A00495	30-May-14
WRLE02670	8447D	Hewlett-Packard	Preamplifier	2443A03954	Code B 11-Jan-14
WRLE10527	SL18B4020	Phase One Microwave	Preamplifier 1 – 18 GHz	0001	Code B 08-Jan-14
WRLE03229	3115	Electro-Mechanics	Ridge Guide Antenna	2483	16-Aug-13
		(EMCO)			•

Cal Code B = Calibration verification performed internally.

#### Limit for transmitter

	•		
Fundamental	Field strength	Field strength	Measurement
Frequency	of	of harmonics	distance (m)
(MHz)	fundamental	(μV/m)	
	(mV/m)	<b></b> /	
2400-2483.5	50	500	3

- (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.
- (e) As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Radiated emissions from the EUT are measured in the frequency range of 30 to 1000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with a 120 kHz / 6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz RBW/VBW / 6 dB bandwidth and peak detection, 1 MHz RBW / 10 Hz VBW for average detection. Table top equipment is placed on a non-conductive support 80 cm above the ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3, 10 or 30 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT is rotated 360 degrees.

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 Rev. 113006



## Test data

Measurem	ent sum	mary for limit1: FCC	15.249/F	RSS-210 <1GI	Hz 3m (Qp)
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	
		(dB)			
no signals detect	ted from 30-100	00 MHz			

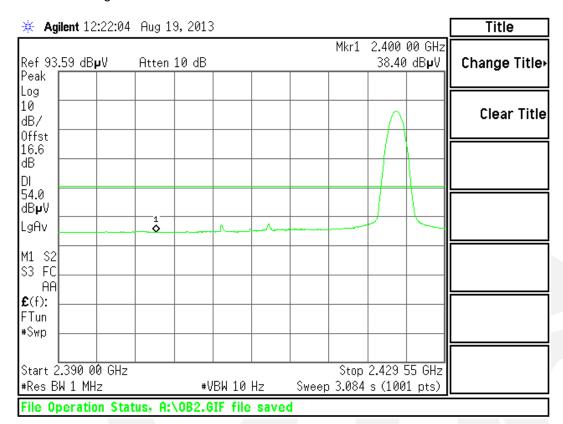
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	15.249 limit	DELTA2
	(dBuV)	ATTEN (dB)	(dBuV/m)	(m)(DEG)	(dBuV/m)	
eut bottom up						
eut standing or	n its side – wors	t case				
with absorbers	down					
2.425 GHz	101.61 Av	4.55 / 28.39 / 43.3 / 0.0	91.25	H / 1.10 / 290		
2.425 GHz	103.6 Pk	4.55 / 28.39 / 43.3 / 0.0	93.24	H / 1.10 / 290		
2.45 GHz	102.66 Av	4.59 / 28.47 / 43.33 / 0.0	92.4	H / 1.10 / 290		
2.45 GHz	104.6 Pk	4.59 / 28.47 / 43.33 / 0.0	94.34	H / 1.10 / 290		
2.48 GHz	103.25 Av	4.65 / 28.58 / 43.36 / 0.0	93.12	H / 1.10 / 290	94	
2.48 GHz	104.8 Pk	4.65 / 28.58 / 43.36 / 0.0	94.67	H / 1.10 / 290	114	
		B of the limit from 30-1000 MHz				
fundamental m	eets 15.249 lim	it of 94 dBuV/m by 0.9 dB				
absorbers rem						
		in front of preamp - with absorbe				
4.899 GHz	40.12 Av	7.89 / 33.0 / 43.59 / 0.46	37.88	H / 1.00 / 110		
4.899 GHz	49.7 Pk	7.89 / 33.0 / 43.59 / 0.46	47.46	H / 1.00 / 110		
4.899 GHz	42.68 Av	7.89 / 33.0 / 43.59 / 0.46	40.44	H / 1.00 / 110	54	
4.899 GHz	51.4 Pk	7.89 / 33.0 / 43.59 / 0.46	49.16	H / 1.00 / 110	74	
4.96 GHz	41.87 Av	7.97 / 33.12 / 43.52 / 0.47	39.91	V / 1.00 / 210	54	
4.96 GHz	50.5 Pk	7.97 / 33.12 / 43.52 / 0.47	48.54	V / 1.00 / 210	74	
4.849 GHz	45.12 Av	7.82 / 32.93 / 43.64 / 0.44	42.67	H / 1.20 / 110	54	
4.849 GHz	53.1 Pk	7.82 / 32.93 / 43.64 / 0.44	50.65	H / 1.20 / 110	74	
removed absor						
4.899 GHz	48.82 Av	7.89 / 33.0 / 43.59 / 0.46	46.58	H / 1.40 / 90		
4.899 GHz	54.9 Pk	7.89 / 33.0 / 43.59 / 0.46	52.66	H / 1.40 / 90		
7.349 GHz	52.1 Pk	9.95 / 36.27 / 42.73 / 1.22	56.81	H / 1.70 / 110		
7.349 GHz	43.81 Av	9.95 / 36.27 / 42.73 / 1.22	48.52	V / 1.10 / 240		
7.349 GHz	51.9 Pk	9.95 / 36.27 / 42.73 / 1.22	56.61	V / 1.10 / 240		
4.899 GHz	47.37 Av	7.89 / 33.0 / 43.59 / 0.46	45.13	V / 1.00 / 210		
4.899 GHz	53.5 Pk	7.89 / 33.0 / 43.59 / 0.46	51.26	V / 1.00 / 210		
4.96 GHz	48.01 Av	7.97 / 33.12 / 43.52 / 0.47	46.05	V / 1.00 / 210		
4.96 GHz	54.0 Pk	7.97 / 33.12 / 43.52 / 0.47	52.04	V / 1.00 / 210		
7.44 GHz	42.79 Av	10.0 / 36.38 / 42.83 / 1.27	47.62	V / 1.10 / 240		
7.44 GHz	51.1 Pk	10.0 / 36.38 / 42.83 / 1.27	55.93	V / 1.10 / 240		
4.96 GHz	47.2 Av	7.97 / 33.12 / 43.52 / 0.47	45.24	H / 1.30 / 90		
4.96 GHz	53.4 Pk	7.97 / 33.12 / 43.52 / 0.47	51.44	H / 1.30 / 90		
7.44 GHz	52.9 Pk	10.0 / 36.38 / 42.83 / 1.27	57.73	H / 1.70 / 110		
7.274 GHz	44.43 Av	9.91 / 36.08 / 42.66 / 1.19	48.95	H / 1.20 / 110		
7.274 GHz	52.3 Pk	9.91 / 36.08 / 42.66 / 1.19	56.82	H / 1.20 / 110		
4.849 GHz	51.26 Av	7.82 / 32.93 / 43.64 / 0.44	48.81	H / 1.40 / 90		
4.849 GHz	56.6 Pk	7.82 / 32.93 / 43.64 / 0.44	54.15	H / 1.40 / 90		
4.849 GHz	47.41 Av	7.82 / 32.93 / 43.64 / 0.44	44.96	V / 1.00 / 210		
4.849 GHz	53.9 Pk	7.82 / 32.93 / 43.64 / 0.44	51.45	V / 1.00 / 210		
7.274 GHz	42.84 Av	9.91 / 36.08 / 42.66 / 1.19	47.36	V / 1.10 / 240		
7.274 GHz	51.0 Pk	9.91 / 36.08 / 42.66 / 1.19	55.52	V / 1.10 / 240		
with absorbers		<b>,</b>		1		
7.44 GHz	44.15 Av	10.0 / 36.38 / 42.83 / 1.27	48.98	H / 1.40 / 120	54	
7.44 GHz	53.2 Pk	10.0 / 36.38 / 42.83 / 1.27	58.03	H / 1.40 / 120	74	

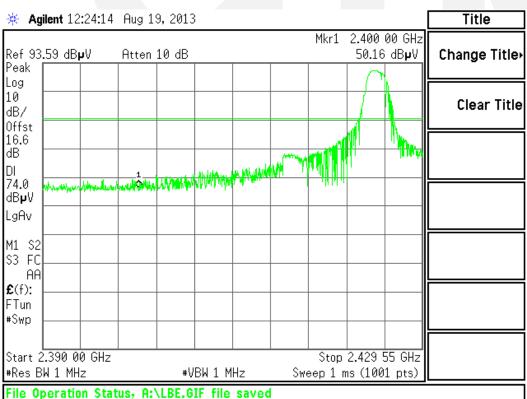
Test Report NC1305643.2

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#### Lower band edge

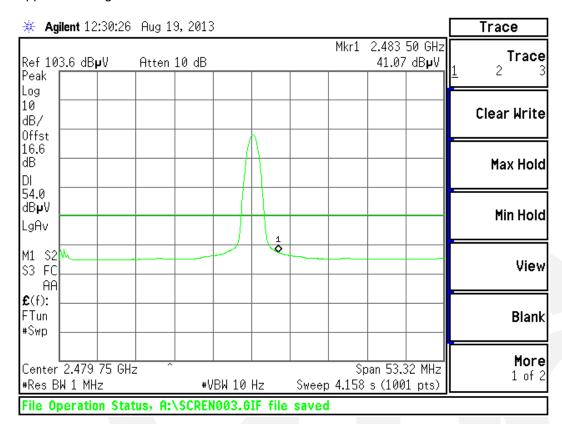


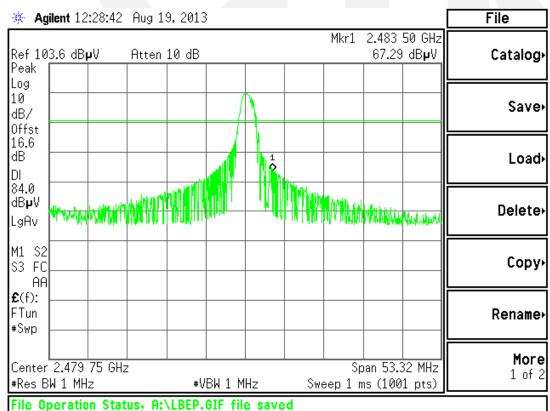


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#### Upper band edge





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# Occupied bandwidth RSS-Gen 4.6.1

#### **Test summary**

The requirements are: ■ - MET □ - NOT MET

Test was performed in accordance with the article "The Measurement of Occupied Bandwidth" by Industry Canada's certification bureau.

Occupied bandwidth = 1.07 MHz

#### **Test location**

■ - Wild River Lab Large Test Site (Open Area Test Site)

☐ - Wild River Lab Small Test Site (Open Area Test Site)

**Test equipment** 

TUV IDModel NumberManufacturerDescriptionSerial NumberCal DueWRLE03371E4440AAgilentSpectrum AnalyzerMY4336222206-Nov-13Cal Code B = Calibration verification performed internally. Cal Code Y = Calibration not required when used with other calibrated equipment.

#### **Test limit**

Not specified

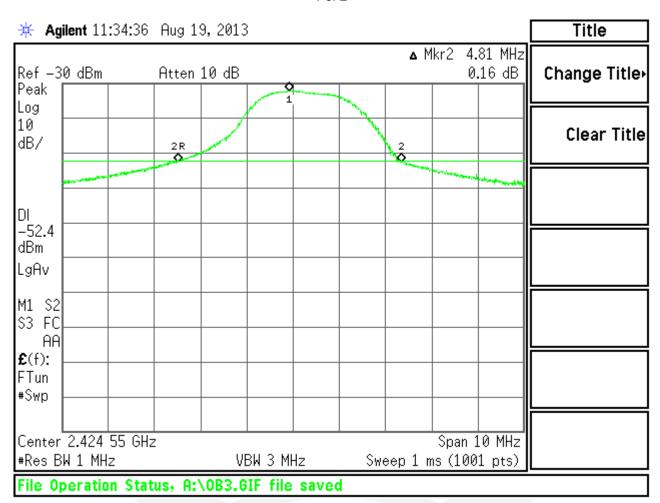
#### Test data

See following pages

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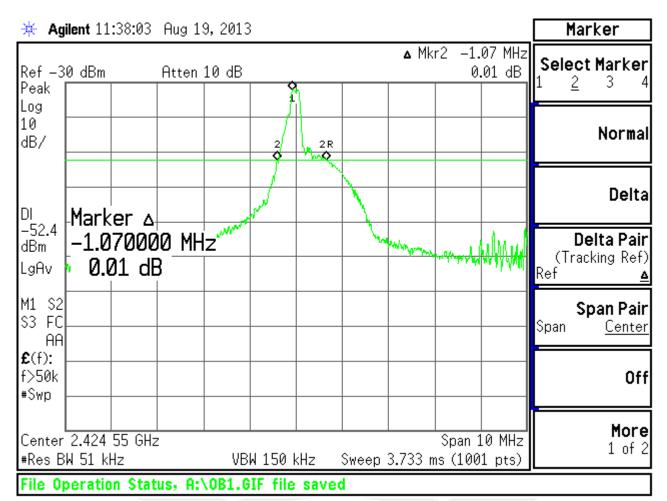
# 99% Occupied bandwidth 1 of 2



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# 99% Occupied bandwidth 2 of 2





Test-setup photo(s): below 1 GHz



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Test-setup photo(s): above 1 GHz





Equipment Under Test (EUT) Test Operation Mode:
The device under test was operated under the following conditions during immunity testing :
□ - Standby
□ - Test program (H - Pattern)
□ - Test program (color bar)
□ - Test program (customer specific)
□ - Practice operation
■ - Normal operating mode
Configuration of the device under test:
■ - See Appendix A and test setup photos
□ - See Product Information Form(s) in Appendix B



<b>DEVIATIONS FRO</b> None.	OM STANDARD:	
GENERAL REMA None	RKS:	
Modifications required	to pass:	
Test Specification Dev ■ None □ As indicated in the	viations: Additions to or Exclus	sions from:
- met and the device	ording to the technical regulations of the test does fulfill the genevice under test does <b>not</b> fulfill	
EUT Received Date:	14 August 2013	
Condition of EUT:	Normal	
Testing Start Date:	14 August 2013	
Testing End Date:	19 August 2013	
TÜV SÜD AMERIC	CA INC	
Tested by:		Approved by:
Joel T. Sohnéus	4	Il Jakubowski
Joel T Schneider Senior EMC Engineer		Greg S Jakubowski Senjor EMC Technician



# Appendix A

Constructional Data Form





## **EMC Test Plan and Constructional Data Form**

PLEASE COMPLETE THIS DOCUMENT IN FULL, ENTERING N/A IF THE FIELD IS NOT APPLICABLE. IF TESTING RESULTS IN MODIFICATIONS TO THE EQUIPMENT, PLEASE SUBMIT A REVISED TP/CDF INDICATING THOSE MODIFICATIONS.

NOTE: This information will be input into your test report as shown below. Press the F1 key at any time to get HELP for the current field selected.

Company:	Attwood C	orporation						
Address:	1016 N Mc	onroe St						
	Lowell, MI							
	49331							
Contact:	Peter Dues	sing		Position	n:	Test Engineer		
Phone:	616-897-2	334		Fax:		616-897-2337		
E-mail Address:	peter.dues m	ing@attwoodma	arine.co	_				
General Equipment	Description	1 NOTE: This in	formation	will be inp	out into	your test report a	s shown belo	w.
EUT Description	Foot acuat	ed remote to co	ntrol fish	ning trollin	ng mo	tor		
EUT Name	ASM-FT P	EDAL,INC,WRL	.S					
Model No.:	00100929	1		_ Serial N	No.:	NA		
Product Options:		NA						
Configurations to be	tested:	Normal						
Equipment Modifica	ation (# annli	aabla indiaata ma	dification	s since EU	Twos	last tasted If made	fications are	mada
during this testing, sub					ı wası	ast tested. Il modi	ilcations are i	naue
Modifications since la	ast test:	NA						
Modifications made of	during test:	NA						
Test Objective(s): P								
	04/108/EC (	EMC)	⊠ FC		Clas			bc
Std:	va 00/202/EI	TO (EMO)	. □ VC □ BS		Clas			Poport\
Machinery Directing Std:	ve 89/392/E	EC (EMC)	=	ıvıı: nada:	Clas	=		(Teport)
☐ Medical Device D	irective 93/4	2/EEC (EMC)	. ≌ •∝	stralia:	Clas			
Std:		L, LLO (L.II.O)	⊠ Oth		RTT		•	
☐ Vehicle Directive	- 2004/104/E	EC (EMC)	Ag	Directive	*200	9/64/EC (EMC)		
Other Vehicle St		· ,				. ,		
☐ FDA Reviewers G								

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# **EMC Test Plan and Constructional Data Form**

☐ Attestation of Compliance (AoC)*	te), if applicable (*Signature on last page required).
	EMC Certification (used with Octagon Mark)*
Statement of Compliance (SoC, previously CoC)* -	All aspects of the essential requirements were assessed
Protection Class (Reg'd for AoC, SoC, EMC Cert. N	
(Press F1 when field is selected to show additional information or	Protection Class.)
	Taiwan Certification
	☐ Korean Certification
e-Mark Certification	
A44	
Attendance	
Test will be: Attended by the customer	☐ Unattended by the customer
Failure - Complete this section if testing will	not be attended by the customer.
If a failure occurs, TÜV SÜD America should:  ☐ Call contact listed above, if not available there ☐ Continue testing to complete test series. ☐ Continue testing to define corrective action. ☐ Stop testing.	
<b>EUT Specifications and Requirements</b>	
Length: 12" Width: 8"	Height: 3" Weight: 5 lb
<u> </u>	<u> </u>
Power Requirements	
Regulations require testing to be performed at typical po European power is typically 230 VAC 50 Hz or 400 VAC 5	
Voltage: 2x 1.5V AA (If battery power	ed, make sure battery life is sufficient to complete testing.)
Battery	
# of Phases:	
# of Phases: Current Current	hase(nominal)):
# of Phases:  Current (Amps/phase(max)): (Amps/phase(max))	hase(nominal)):

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# **EMC Test Plan and Constructional Data Form**

EUT Power (	Cable	<u>;                                    </u>											(in meters)  Removable  Permanent					
Perman			OR				Removable Length (in meters):											
Shielded			ЭR		Ш	Un	shie	elded										
	ııcabl	е																
EUT Interfac	e Por	rts	an	d C	able	s												
				ing			;	Shielding				sted s)	ir se					
	ნ -	_			Qty							tes eter	ovat					
	Analog	Digita	Active	Passive		Yes	S			Connector	Port	ngth n m	erm'					
Туре	₹ °	ב	⋖	Pê		Ĺ		Туре	Termination	Туре	Termination	Le (i	<u> </u>					
<b>EXAMPLE</b> : RS232		ĸ	×		2	×		Foil over braid	Coaxial	Metallized 9- pin D-Sub	Characteristic Impedance	6	<b>X</b> 🗆					
. 10202			$\bar{\Box}$					. 5.1 5.7 51 51 414	Journal									
		]																
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			Ш															
		7		П			П											
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		7																

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FCC IC: MVU09291 IC: 6094A-09291

#### **Form**



## **EMC Test Plan and Constructional Data Form**

EUT Interface Ports and Cables														
			During Test			Shielding		Shielding				sted rs)	able	ent
Туре	Analog	Digital	Active	Passive	Qty	Yes	8 N	Туре	Termination	Connector Type	Port Termination	Length test (in meters	Remova	Permanent
														_

#### **EUT Software**.

Revision Level: REV 1.51

Description: Production Revision

**Equipment Under Test (EUT) Operating Modes to be Tested --** list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

1. Normal - just pressing the buttons to initiate signals sent to the trolling motor.

2.

3.

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# **EMC Test Plan and Constructional Data Form**

Equipment Under Test (EUT) System For FCC & Taiwan testing a minimum configuration.	stem Components Lis guration is required. (ie. Mouse	t and describe all compone e, Printer, Monitor, External	ents which are part of the EUT.  I Disk Drive, Motherboard, etc)
Description	Model #	Serial #	FCC ID #
<b>Support Equipment</b> List and describes This information is required for FCC & Taiwa		h is not part of the EUT. (i	.e. peripherals, simulators, etc)
Description Mo	del # Serial	# FCC IE	)#
XI5-105FW 54" 36V FP 94	0800130		

Oscillator Fr	Oscillator Frequencies							
Manufacturer	Frequency	Derived Frequency	Component # / Location	Description of Use				
Linx	26MHz		wireless controller					
Ayshire	10MHz		Main controller					
•								

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# **EMC Test Plan and Constructional Data Form**

Power Supply							
Manufacturer	Model #	Serial #		Туре			
				Switched	l-mode:	(Frequency)	
				Linear	☐ Othe		
			<u> </u>				
				Switched		(Frequency)	
				Linear	Othe	er:	
	*						
Power Line Filt	ers						
Manufacturer	Model #			Location in EU	Τ		
0			4- \				
	mponents (Capad						
Description	Manufac	turer	Part #	or Value	Qty	Component # / Location	
EMC Critical De	etail Describe other	r EMC Design de	etails used	d to reduce high f	reauency n	noise.	
	2000			2 to . o a a o o g			
	R NAMES BELOW	,				,	
Authorization (	Signature Requir	ed if a Third	Party (	Certification	is check	ed on pg 1)	
Peter Duesin	a			6/18/13			
	thorization to perfo	orm tests		Date			
according to							
Peter Duesin	g			6/18/13			
Test Plan/CD							

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