

Radiated emissions





Temperature testing





Temperature testing



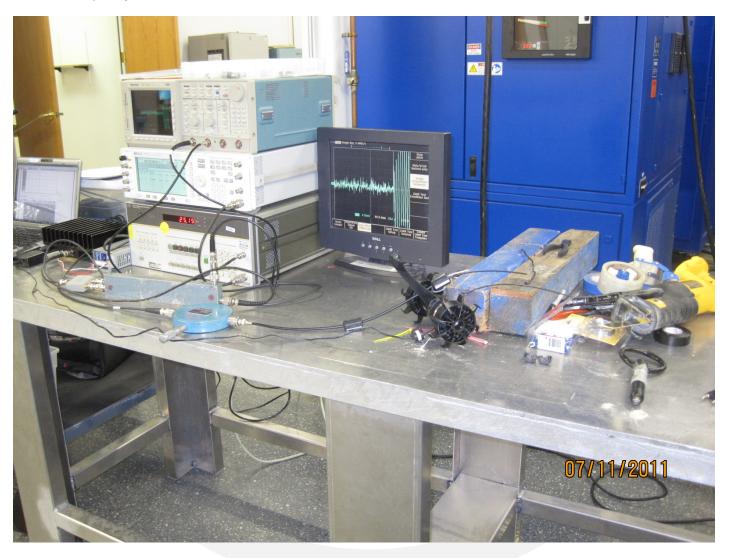


Temperature testing





Transient frequency behavior





10. EUT information





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:	ReconRobotics					
Address:	7620 W 78 th Street					
	Edina, MN					
	55439					
Contact:	Andrew Drenner	Position:	Robot Systems Architect			
Phone:	952-935-5515 x112	Fax:	952-935-5508			
E-mail Address:	andrew.drenner@reconrobotion	es.c				
General Equipment	Description NOTE: This inform	ation will be input i	nto your test report as shown below.			
EUT Description	Recon Scout					
EUT Name	Recon Scout					
Model No.:	Recon Scout XT	Serial No.:	multiple			
Product Options:	standard config					
Configurations to be						
English and Bar 1985	-0					
during this testing, sub	ation (If applicable, indicate modific mit revised TP/CDF after testing is co	ations since EUT wa mplete.)	es last tested. If modifications are made			
Modifications since la	ast test:					
Modifications made	during test:					
	Please indicate the tests to be perforn		olicable standard(s) where noted.			
EMC Directive 20 Std:	004/108/EC (EMC)		ass			
	ve 89/392/EEC (EMC)		ass A B B (Separate Report)			
Std:		Canada: Cl	ass 🗌 A 🗎 B			
· · · · · · · · · · · · · · · · · · ·	irective 93/42/EEC (EMC)		ass			
Std: Std: Other: FCC compliance with supplied waiver Vehicle Directive: 2001/3/EC (EMC) 2004/104/EC (EMC)						
☐ Other Vehicle Std:						
FDA Reviewers Guidance for Premarket Notification Submissions (EMC)						
Notification out	ornissions (Livio)					
Third Party Certific	ation, if applicable (*Signature	on Page 6 Requ	uired)			
Attestation of Cor			ation (used with Octagon Mark)*			
Certificate of Con	formity (CoC)* (N/A for vehicles)	☐ Compliance [☐ Class I	Document* ☐ Class II ☐ Class III			
(Press F1 when field is se	lected to show additional information on Prote	ction Class.)				
FCC / TCB Certif		Industry Cana ☐ Taiwan Certif	ada / FCB Certification			
	OII		ication			

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18 October 2011



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 then stop testing. (After hrs phone): Continue testing to complete test series. Continue testing to define corrective action. Stop testing.						
EUT Specifications and Requirements						
Length: 20.3 cm Width: 18.5 cm Height: 11.4 cm Weight: 524 g						
Power Requirements						
Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)						
Voltage: (If battery powered, make sure battery life is sufficient to complete testing.)						
# of Phases:						
Current Current (Amps/phase(max)): (Amps/phase(nominal)):						
Other The device is battery powered and has fixed rechargeable batteries						
Other Special Requirements						
Other Special Requirements						
Typical Installation and/or Operating Environment						
(ie. Hospital, Small Business, Industrial/Factory, etc.)						
This is a mobile device used in law enforcement and first responder scenarios.						
EUT Power Cable						
Permanent OR Removable Length (in meters):						
☐ Shielded OR ☐ Unshielded ☐ Not Applicable						

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EUT Interface Ports and Cables														
			Du Te	ring est				Shielding				sted 's)	<u> </u>	T.
Туре	Analog	Digital	Active	Passive	Qty	Yes	N _o	Туре	Termination	Connector Type	Port Termination	Length tested (in meters)	Removable	Permanent
EXAMPLE: RS232		×	×		2	×		Foil over braid	Coavial	Metallized 9- pin D-Sub	Characteristic Impedance	6	×	П
Charge Plug					1			Ton over brain	Coaxiai			0		

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EUT Software.

Revision Level: git-7468b5a3413b8971c3b99fdb207d7b14d69c8cec

Description: Standard XT Release

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.
- 2.
- 3.

Equipment Under Test (EUT) System Components -- List and describe all components which are part of the EUT. For FCC & Taiwan testing a minimum configuration is required. (ie. Mouse, Printer, Monitor, External Disk Drive, Motherboard, etc)

Description	Model #	Serial #	FCC ID #
Recon Scout XT - Channel A		1010L0514	
Recon Scout XT - Channel B		1010L0425	
Recon Scout XT - Channel C		1010L0479	

Support Equipment -- List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc) This information is required for FCC & Taiwan testing.

Serial #

FCC ID#

Scout Charger	3P10-L1012

Model #

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Description

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Oscillator Frequencies								
Manufacturan		Derived		C	4 # / L a a a 4 i a m	December	ion of Hoo	
Manufacturer	Frequency	Frequency		Component # / Location		Descript	ion of Use	
		Į.				Į		
Power Suppl	у							
Manufacturer	Model #		Serial #		Туре			
						d-mode:		
					Linear	Oth	er:	
					Switche	d-mode:	(Frequency)	
					☐ Linear ☐ Other:			
Power Line F								
Manufacturer		Model #			Location in El	JT		
-								
	_			•				
Critical EMI	Components	(Capacite	ors, ferr	ites, etc.)				
Description		Manufactui	er	Part #	t or Value	Qty	Component # / Location	
Metal enclosu shielding	ire for							
EMC Critical	Detail Descr	ibe other El	MC Desian	n details use	d to reduce high	frequency	noise.	

PLEASE ENTER NAMES BELOW (INSERT ELECTRONIC SIGNATURE IF POSSIBLE)

Form



EMC Test Plan and Constructional Data Form

Authorization (Signature Required if a Third Party Certification is checked on pg 1)						
Customer authorization to perform tests according to this test plan.	Date					
Test Plan/CDF Prepared By (please print)	Date					



EMC Block Diagram Form

System Configuration Block Diagram -- Provide a line drawing identifying the EUT, simulators, support equipment, I/O cables, power cables, and any other pertinent components to be used during testing. Use a dashed line to separate the equipment in the testing field versus equipment outside testing field. EUT 2: OCU, transmits command, freq defined by channel, Part 95, Subpart C EUT 1: Robot, transmits video, freq defined by channel, see FCC waiver defined by channel, Part 95, Subpart C Robot tests separately from OCU. OCU tests separately from robot. ______ -----Robot charger, not being tested, may be OCU charger, not being tested, may be needed as we only have ~60 minute runtime needed as we only have ~120 minute runtime **Authorization Signatures** Customer authorization to perform tests Date according to this test plan. Test Plan/CDF Prepared By (please print) Date