



LCIE

**LCIE SUD EST**  
Laboratoire de Moirans  
Z.I. Centr'Alp  
170, Rue de Chatagnon  
38430 MOIRANS - FRANCE

## GENERAL INFORMATION

FCCID: 09BARVANANO

### 1.1. Product description



ANTENNAS	3
DISPLAY	Analog, Digital
SEARCH BAND WIDTH	60 m
MARKING FUNCTION	Yes
FREQUENCE CONTROL	Measurment
SWITCH BACK TO TRANSMISSION	Automatic
STAND BY MODE	Yes
GROUP CHECK	Yes
VICTIM +	Yes
WEIGHT	230 g
SIZE	112 x 75 x 30 mm



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## Description

Dedicated to the most exigent users, the AXIO is the high-end beacon of the ARVA range. Thanks to the "SPHERIC SEARCH TECHNOLOGY", the 60 meters bandwidth AXIO is the only beacon on the market processing an entire spherical search with 3 antennas working simultaneously. The 3rd antenna can be deployed to create a real landmark built by the 3 antennas of the beacon.

The "Spheric Search" technology is marking the end of the well known sequence: "big antenna on primary search second antenna on secondary search and 3rd antenna on final search". Now with the AXIO all 3 antennas are working simultaneously for a faster and smarter route search.

- transceiver: 457 kHz, international frequency
- digital and analog
- simultaneous detection of multiple victims with creation of scrollable list
- marking function (3 or 5m) for multiple victims situations
- group check
- motion detector for automatic switch to transmit mode
- dynamic interference management
- operating time: 250+ hours
- power supply: 3 AAA/ LR03 alkaline batteries
- frequency meter
- multiple buried indication
- U-turn alarm
- updatable
- 3D isotech technology



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## 1.2. Tested System Details

### Equipment under test (EUT):

ARVA AXIO

Serial Number: XO00061-0121



### Power supply:

During all the tests, EUT is supplied by  $V_{nom}$ : 4.5VDC

For measurement with different voltage, it will be presented in test method.

Name	Type	Rating	Reference / Sn	Comments
Supply1	<input type="checkbox"/> AC <input type="checkbox"/> DC <input checked="" type="checkbox"/> Battery	3 x Batteries type AAA (4.5Vdc)	/	/

### Inputs/outputs - Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
Supply1	3 x Batteries typ AAA (1.5Vdc each)	/	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Access1	Audio Jack port output (3.5mm)	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### Auxiliary equipment used during test:

Type	Reference	Sn	Comments
		None	



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**Equipment information:**

EQUIPMENT INFORMATION				
<b>RF module:</b>	NC			
<b>Frequency Carrier:</b>	457 kHz			
<b>Sub-band REC7003:</b>	ANNEX 2 – Band A [456.9-457.1kHz]			
<b>RF mode:</b>	<input checked="" type="checkbox"/> Transmitter	<input type="checkbox"/> Transceiver	<input checked="" type="checkbox"/> Receiver	<input type="checkbox"/> Standby
<b>Antenna type:</b>	<input type="checkbox"/> External:		<input checked="" type="checkbox"/> Internal:	
<b>Antenna gain:</b>	NC			
<b>Equipment location</b>	<input checked="" type="checkbox"/> Mobile station		<input type="checkbox"/> Fixed station	
<b>Extreme temperature range:</b>	<input checked="" type="checkbox"/> Category I (General) -20°C to +55°C	<input type="checkbox"/> Category II (Portable) -10°C to +55°C	<input type="checkbox"/> Category III (Indoor) +5°C to +35°C	
<b>Extreme test source voltage:</b>	<input type="checkbox"/> ±10%:	<input checked="" type="checkbox"/> Other: From 3.3VDC to 4.5VDC (ask from provider)		
Equipment designed for continuous operation: NO, emitted each 750ms during 100ms (Declaration of provider)				

### 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 or ANSI C63.10, FCC Part 15 Subpart C.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

### 1.4. Test facility

Tests have been performed **March 22nd, 2016**.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4 and ANSI C63.10 (registration number 94821).

This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.