



Reliability Laboratory

# TEST REPORT

Report No.: HC70210/2009

Page: 1 of 7

Date: July 27, 2009

The following merchandise was submitted and identified by the vendor as:

Product Description: Bluetooth headset  
Style/ Item No.: INTERPHONE-F4(BTMOTOF4)/ No.1, No.2

Quantity: Total 2 pieces  
Testing Period: Jul. 21, 2009 to Jul. 24, 2009

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

Test for Degrees of Protection Provided by Enclosures

IP Code	IP67
<b>First characteristic numeral</b>	Degrees of protection against access to hazardous parts and against solid foreign objects
<b>Second characteristic numeral</b>	Degrees of protection against ingress of water

Test Results: – PLEASE SEE ATTACHED SHEETS –

Terence Hsieh  
Manager - Operation



## TEST REPORT

Reliability Laboratory

Report No.: HC70210/2009

Page: 2 of 7

### Test for Degrees of Protection Provided by Enclosures:

#### Test Equipment:

Name	Brand	Model	Serial No.
1.0 mm Test Wire Probe	ED&D	TRP-02	B0050180
Digital Force Gauge	ALGOL	HF-50	HF-106764
Dust Tester	T-MACHINE	TMJ-9723C	T-23-050411
IPX7/IPX8 Immersion Tank	Self-made	SGS-ETR-0201	000001

#### Lab Environmental Conditions:

Ambient temperature: 25±3°C  
Relative humidity: 55±20%RH

#### Test Method/ Specification:

Test method: According to IEC 60529 Edition 2.1: 2001-02--IP67

##### **1. Test for protection against access to hazardous parts:**

Test method: IEC 60529 Edition 2.1: 2001-02--IP6X  
The test wire with 1.0 mm in diameter and 100 mm long is pushed against or inserted through any openings of the enclosure with the force specified in Table 6 in IEC 60529 Edition 2.1: 2001-02. Examine whether the test wire touches the hazardous live parts inside the enclosure or not.

Test force: 1 N±10 %

##### **2. Test for protection against solid foreign objects:**

Test method: IEC 60529 Edition 2.1: 2001-02--IP6X (Dust test)  
Type of dust: Talcum powder  
The amount of dust: 2 kg  
The chamber size: 1 m<sup>3</sup>  
The maximum depression: -20 mbar  
Test duration: 8 hours

- Examine the protection against ingress of dust of specimen(s) after this test.

Test Method/ Specification--Continued:

**3. Test for protection against water:**

Test method: According to IEC 60529 Edition 2.1: 2001-02--IPX7

Test means: Completely immerse the specimen in water in its service position as specified by client.

Test condition: See below items marked “●”,

●	The lowest point of enclosures with a height less than 850 mm is located 1000 mm below the surface of the water
	The highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water

Test duration: 30 minutes

Test device: As shown in photo 6, 7

- Examine the protection against ingress water of specimen(s) after this test.



Reliability Laboratory

# TEST REPORT

Report No.: HC70210/2009

Page: 4 of 7

Specimen:

Style/ Item No.: INTERPHONE-F4(BTMOTOF4)/ No.1, No.2

Quantity: Total 2 pieces

Test Result:

A. Degrees of protection against access to hazardous parts and against solid foreign objects (IP6X)

A-1 Test for protection against access to hazardous parts (IP6X)

Test Result	
Check Item	Style/ Item No.
	<u>INTERPHONE-F4(BTMOTOF4) / No.1</u>
1	Does the test wire penetrate any openings of the enclosure? No
2	(followed check item 1) If the test wire penetrates any openings of the enclosure, does the test wire touch any hazardous live parts or any hazardous mechanical parts? N/A
3	(followed check item 2) Does adequate clearance be kept between the test wire and hazardous live parts or hazardous mechanical parts? N/A

Note 1: N/A means "Not Applicable".  
Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.1: 2001-02 and in accordance with the acceptance conditions specified by client.

A-2 Test for protection against solid foreign objects (IP6X)

Test Result	
Check Item	Style/ Item No.
	<u>INTERPHONE-F4(BTMOTOF4) / No.1</u>
1	Does any dust deposit inside the enclosure at the end of the test? No
2	Functional check N/A

Note 1: N/A means "Not Applicable".  
Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.1: 2001-02 and in accordance with the acceptance conditions specified by client.

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Reliability Laboratory

# TEST REPORT

Report No.: HC70210/2009

Page: 5 of 7

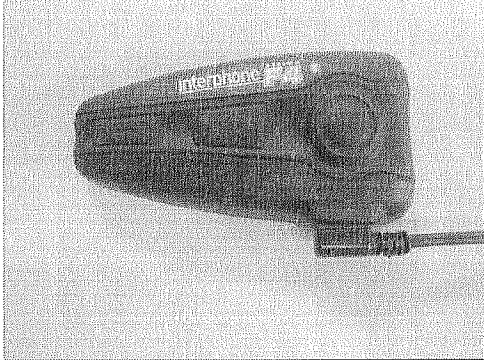
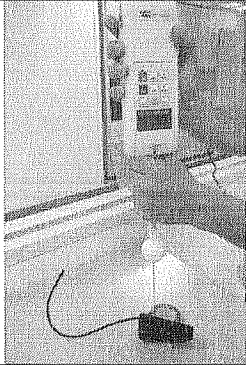
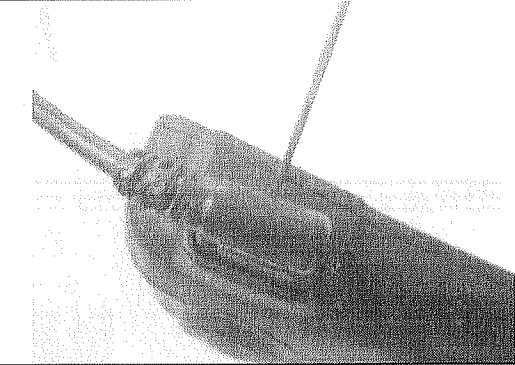
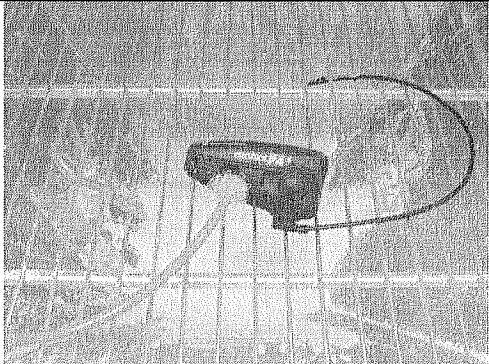

Test Result--Continued:

B. Degree of protection against ingress of water (IPX7)

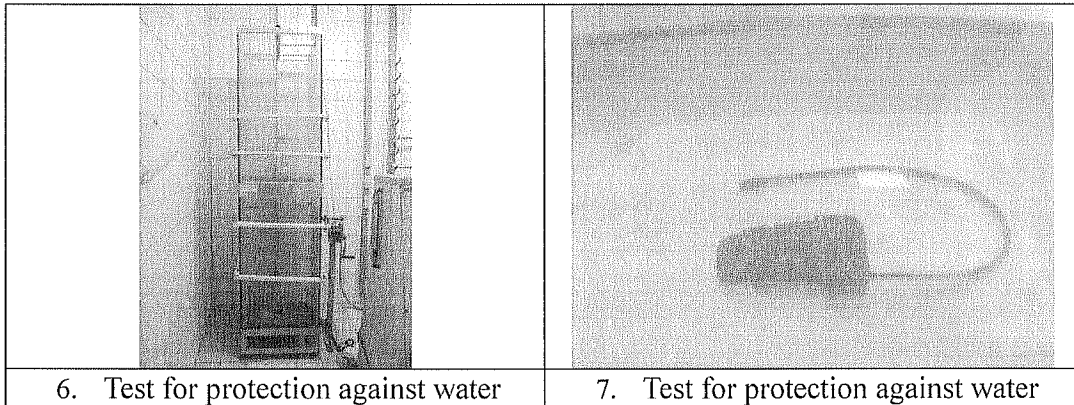
Test Result		Style/ Item No.
Check Item		INTERPHONE-F4(BTMOTOF4) / No.2
1	Provide protection against ingress water?	Yes
2	(followed check item 1) If any water has entered, does the water accumulate near the cable end or live parts?	N/A
3	Functional check	N/A

Note 1: N/A means "Not Applicable".  
 Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.1: 2001-02 and in accordance with the acceptance conditions specified by client.

Test Photos:

	
<p>1. Appearance of specimen: INTERPHONE-F4(BTMOTOF4)</p>	
	
<p>2. Test for protection against access to hazardous parts</p>	<p>3. Test for protection against access to hazardous parts</p>
	
<p>4. Test for protection against solid foreign objects (Dust test)</p>	<p>5. Test for protection against solid foreign objects (Dust test)</p>

Test Photos--Continued:



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