



# TEST REPORT

Report No. : HJ201200068-2

Customer: Brigade Electronics Plc.

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Address: The Mills Station Road, South Darenth, Kent DA4 9BD, United Kingdom

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Sample description: Colour camera

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Sample model: VBV-700C/VBV-701C/VBV-790C/VBV-791C

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Test date: Apr.5,2012

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Reference document: ISO 20653-2006

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Test result: Refer to the following page

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Tested	Wu Wei	Inspected	Chen Shengjian	Approved	Huang Yingling
(Engineer)	_____	(Director)	_____	(Manager)	_____
	<i>Wu Wei</i>		<i>Chen Shengjian</i>		<i>Huang Yingling</i>

GUANGZHOU GRG METROLOGY AND TEST CO., LTD

Issued Date: Apr.6,2012



The report is just responsible for the tested sample; it is not valid if the report without our stamp. The report must not be partially duplicated without written approval from the issuing laboratory. If there is any objection concerning the test, the client should inform the calibration laboratory within 15 days from the date of the samples under test return to the client.

GUANGZHOU GRG METROLOGY AND TEST CO., LTD  
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## TEST REPORT

Inspection type	<input checked="" type="checkbox"/> Commissioning test <input type="checkbox"/> Routine test <input type="checkbox"/> Approval test <input type="checkbox"/> Type test
Sample source	<input checked="" type="checkbox"/> Commissioned units send sample <input type="checkbox"/> Sampling
Total quantity of Sample	1 pcs
Sample No. / Test No.	Sample No.: 1# Test No.: /
Appearance of sample	Shape: <input type="checkbox"/> Square <input type="checkbox"/> Round <input checked="" type="checkbox"/> Irregular <input type="checkbox"/> Others_____ Color: <input type="checkbox"/> Monochrome <input checked="" type="checkbox"/> Multicolor _____ <input type="checkbox"/> Others _____ Type: <input type="checkbox"/> Mini <input type="checkbox"/> Small <input type="checkbox"/> Small and medium <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Large
Sample components and accessories	Components:                /                                Accessories:                /
Packing status	<input type="checkbox"/> Outer Packing _____ <input checked="" type="checkbox"/> No packing
Sample quality	Sample state before test: <input checked="" type="checkbox"/> Conformity product <input type="checkbox"/> Non-conformity product <input type="checkbox"/> Prototype <input type="checkbox"/> Others Changing situation after test: <input type="checkbox"/> Yes _____ <input checked="" type="checkbox"/> No
Environment condition	Temperature: 23 °C~28°C                                Relative humidity: 55 % ~ 65 %
Sampling method	/
Sampling standard	/
Sampling scheme	/
Sampling time	/
Sampling place	/
Sampling staff	/

## 1. IP6XK

### 1.1 Test condition

Dust type : Portland cement or alternate .

a. Blowing dust of time: 6sec.

b. Blowing dust interval: 15min.

step a to b is one cycles, test 20cycles.

### 1.2 Sample quantities

1x VBV-700C

### 1.3 Test requirement

Appearance inspect after dust test: there shall be no dust into the internal for the sample.

The camera was opened and resealed by the SV engineer as per production processes at the test house.

### 1.4 Test result

There was no dust into the internal for the sample.

### 1.5 Test photos



IP6XK test



Before test



After test

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## 2 IPX9K

### 2.1 Test condition

Rev:  $(5 \pm 1)$  r/min; angle:  $0^\circ$ ,  $30^\circ$ ,  $60^\circ$ ,  $90^\circ$ ; distance: (100~150mm);

Water flow:  $(15 \pm 1)$  l/min; water pressure: approx.(8000 to 10000) kPa;

Water temperature:  $(80 \pm 5)^\circ\text{C}$

Keeping 30s for each position.

### 2.2 Sample quantity

1x VBV-700C

### 2.3 Test requirement

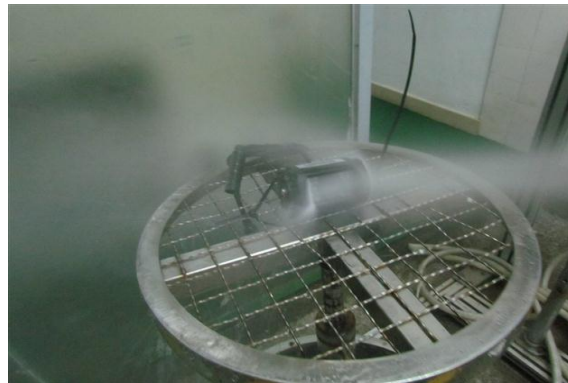
Appearance inspect after water test: there shall be no water into the internal of the sample.

The camera was opened and resealed by the SV engineer as per production processes at the test house.

### 2.4 Test Result

There was no water into the internal for the sample.

### 2.5 Test photos



IPX9K test



Before test



After test

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### 3. Test equipments

No.	Equipment	Serial No.	Due date
1	Water lab	/	2012-08-01
2	Sand & dust test chamber	80612	2012-11-27

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