

# Test Report

Product Name : CAMERA  
Inspected Unit : Cubitech S.A.  
Report No. : EM170908004RE002  
Delivery Date : Sept. 19, 2017

Detection Mechanism : EMTEK (Shenzhen) Co., Ltd  
Mechanism Address : No.11 Gaoxin Road, Guangming New District, Shenzhen,  
Guangdong

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**Applicant** : Cubitech S.A.  
**Address** : Kiprou 4-6, Tavros,17778,Athens,Greece  
**Manufacturer** : Cubitech S.A.  
**Address** : Kiprou 4-6, Tavros,17778,Athens,Greece  
**Processing plant** : Cubitech S.A.  
**Address** : Kiprou 4-6, Tavros,17778,Athens,Greece  
**Sample Name** : CAMERA  
**Sample Model** : CB-DIS4028V  
**Sample Quantity** : 2PCS

**Received Date** : Sept. 8, 2017  
**Testing Period** : Sept. 11, 2017- Sept. 14, 2017

**Test Summary**

| No. | Test Item | Test Standard   | Test Conclusion |
|-----|-----------|---|-----------------|
| 1   | IK10      | Refer to customer requirements and standards<br>IEC 62262: 2002 | Pass            |
| 2   | IP66      | IEC 60529:2013  | Pass            |

Note:  
 Pass: Meet the requirements;  
 Fail: Do not meet the requirements;  
 N/A: Do not evaluate or provide only test results.

Inspected by: Kell  
 Kell  
 Inspected engineer

Reviewed by: Zuo Luo  
 Zuo Luo  
 Reviewed director

Signed for and on behalf of  
 EMTEK (Shenzhen) Co., Ltd.  
 Approved by: Lewis  
 Lewis  
 Authorized signatory  
 Sept. 19, 2017



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**Extra information:**

| NO. | Sample Name | Sample Model | Test state |
|-----|-------------|--------------|------------|
| 1   | CAMERA      | CB-DIM2028VI | Main test  |
| /   | /           | /            | /          |

Note: for the same material samples

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**1. Test Item:** IK10

**1.1 Sample No.:** EM170908004RE002

**1.2 Test Equipment:**

| Name       | Model | Serial No. | Valid Date to |
|------------|-------|------------|---------------|
| Steel ball | /     | ES-041     | 2018.05.06    |

**1.3 Laboratory Conditions:** Temperature: 23±2℃; Humidity: 50±5%RH

**1.4 Test Standard:** Refer to customer requirements and standards IEC 62262: 2002

**1.5 Test Conditions:**

| Table: Relation between IK code and impact energy  |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|
| IK code  | IK00 | IK01 | IK02 | IK03 | IK04 | IK05 | IK06 | IK07 | IK08 | IK09 | IK10 |
| Impact energy, (J)   | 0    | 0.14 | 0.2  | 0.35 | 0.5  | 0.7  | 1    | 2    | 5    | 10   | 20   |
| <p>Remark:</p> <p>A characteristic group numeral of two figures has been chosen to avoid confusion with some national standards which used a single numeral for a specific impact energy</p> <p>During the test, five collisions are applied to each exposed surface of the product.</p> |      |      |      |      |      |      |      |      |      |      |      |

**1.6 Judge Criteria:** After test, check the appearance of the sample.

**1.7 Test Result(s):**

| Sample No.       | Test Result  | Judge |
|------------------|--|-------|
| EM170908004RE002 | After test, the sample surface friction traces, no cracks and damage phenomenon. | Pass  |

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## 1.8 Test Photos



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## 2. Test Item: IP66

### 2.1 Sample No.: EM170908004RE005

### 2.2 Test Equipment:

| Name                    | Model   | Serial No. | Valid Date to |
|-------------------------|---------|------------|---------------|
| D probe                 | ZLT I04 | ER-049     | 2018.09.02    |
| Dust Tester             | KXT1410 | ER-016     | 2017.12.27    |
| Waterproof test chamber | KXT1317 | ER-017     | 2018.08.26    |

### 2.3 Laboratory Conditions: Temperature: 23±2℃; Humidity: 50±5%RH

### 2.4 Test Standard: IEC 60529:2013

### 2.5 Test Conditions:

|   |
|---|
| <p>1. IP6X</p> <p>1) Use the <math>\phi</math>1mm test probe to detect the sample gap, the test force of 1N.</p> <p>2) The sample was placed in a test chamber containing 2 kg of talc per cubic meter of paint to start the test. During the test, the sample was kept in a vacuum state with a maximum pressure difference of 2 kPa and an evacuation rate of 40 times the volume per hour.</p> <p>Test time: 8 hours</p> <p>2.IPX6</p> <p>Nozzle diameter: 12.5mm</p> <p>Water flow: 100L / min</p> <p>Nozzle to sample surface distance: 2.5 ~ 3m</p> <p>Test time: 3 minutes</p> |
|---|

### 2.6 Judge Criteria:

|  |
|--|
| <p>1. Test probe can't be stabbed into the sample, can't enter the dust.</p> <p>2. The sample allows a small amount of water to enter, but not accumulation, can't enter the live parts.</p> |
|--|

### 2.7 Test Result(s):

| Sample No.       | Test Item | Test Result  | Judge |
|------------------|-----------|--|-------|
| EM170908004RE005 | IP6X      | The test probe failed to pass through the gap to the inside of the sample, there is no dust inside the sample. | Pass  |
| EM170908004RE005 | IPX6      | After test, there is no water inside the sample.   | Pass  |

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## 2.8 Test Photos(IP6X)



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## Test Photos (IP6X)

|   |   |
|---|---|
|    |   |
| <p>Check after test</p>   | <p>Check after test</p>   |
|   |  |
| <p>Check after test</p>   | <p>Check after test</p>   |
|  | <p>/</p>  |
| <p>Check after test</p>   | <p>/</p>  |

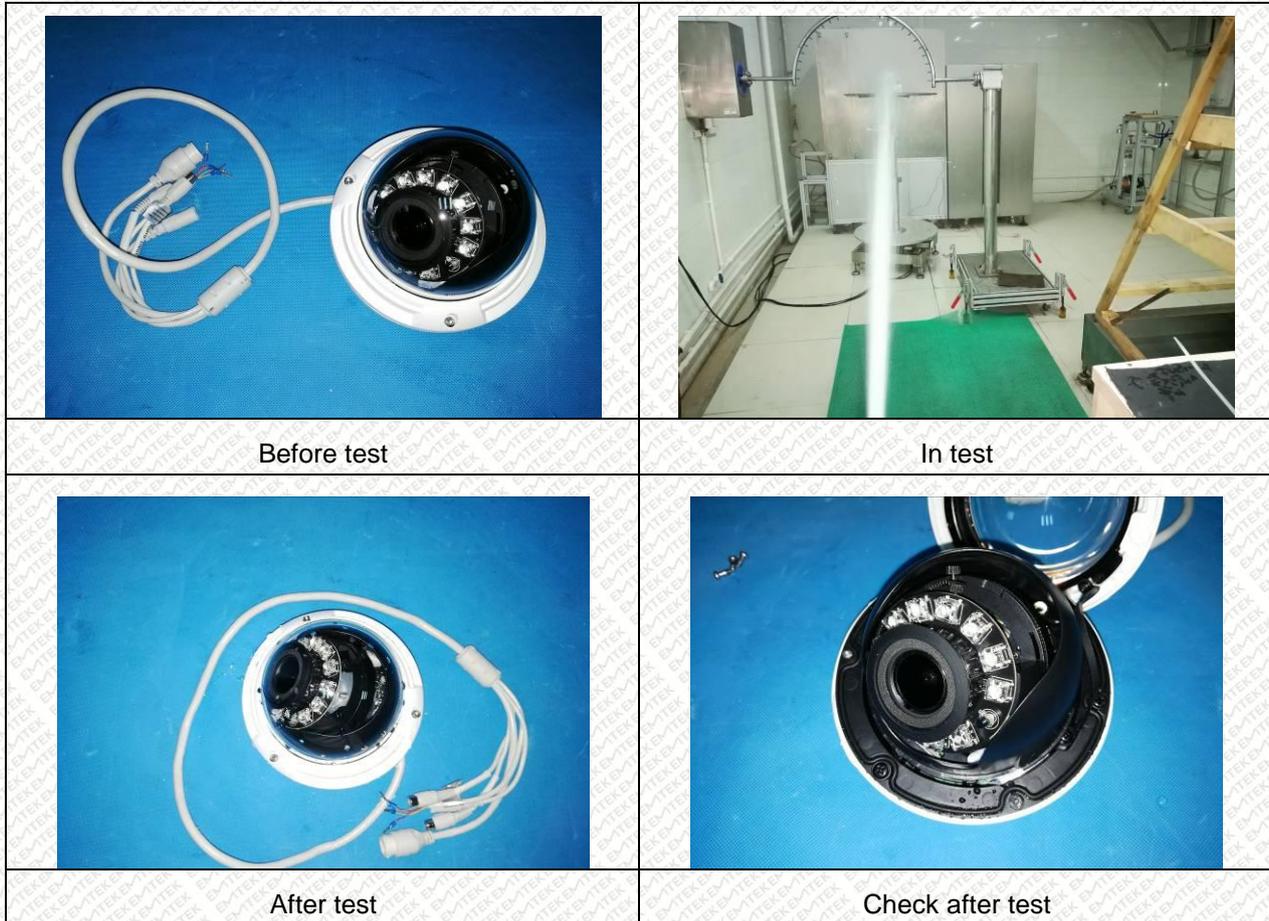
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## 2.9 Test Photos(IPX6)



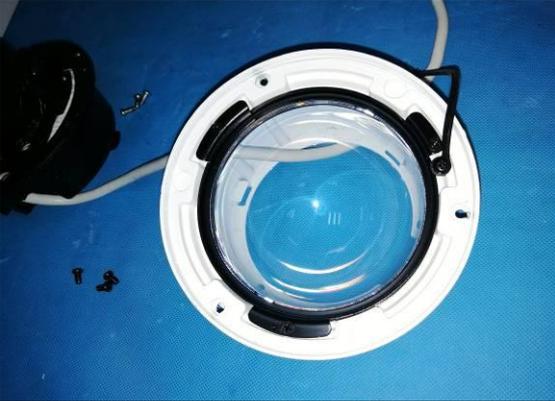
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## Test Photos(IPX6)

|  |  |
|--|--|
|   |  |
| <p>Check after test</p>  | <p>Check after test</p>  |
|  | <p>/</p>   |
| <p>Check after test</p>  | <p>/</p>   |

\*\*\* End of Report \*\*\*

The test report is effective only with both signature and specialized stamp. Without written approval of EMTEK, this report can't be reproduced except in full. The result(s) shown in this report refer only to the sample(s) tested

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2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
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8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
10. Issuance records of the Report are available on the internet at <http://www.emtek.com.cn/zhengshuchaxun.html>. Further enquiry of validity or verification of the Report should be addressed to the company.