

**한국전기안전공사**  
**안전인증센터**

# TEST REPORT



KESCO Safety Test Center  
Tel : 82-31-240-4500 Fax : 82-31-240-4590

Report No. : STC-B10-259-02  
Page of : ( 1 ) / ( 7 )

**1. Customer :**

- Name : KEVIS Inc.
- Address : 803, 104 SK Ventium, Dangejeong-dong, Gunpo-si, Gyeonggi-do, Korea
- Date of Receipt : 2010. 07. 26

**2. Use of Test Report :** Quality Assessment

**3. Product(s) :** CCTV Housing

- Type Designation(s) : SHB-4300H and the others      ○ Serial No(s). : Not applicable  
(Refer to page 4.)

**4. Date(s) of Test Performance :** 2010. 07. 26 ~ 2010. 07. 27

**5. Test Item(s)/Method(s) :** IEC 60529 : 2001 / IP66

**6. Test Environment**

- Temperature : (25 ± 3) ℃                      ○ Relative Humidity : (65 ± 5) % R.H.

**7. Test Result :** Pass

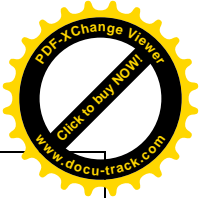
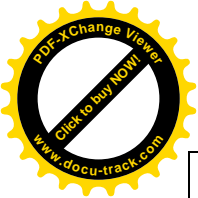
Conformation	Tested by Name H. I. Sok      Signature	Approved by      Technical Manager Name H. C. Jang      Signature
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2010. 07. 28

**The head of Korea Electrical Safety Corporation Safety Test Center**

- This is certified that the above mentioned products have been tested for the sample provided by customer and forbid the use except for original purpose.
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338-1, Yeonghwa Dong, Jangan Gu, Suwon City, Gyeonggi Do, 440-819, Korea



# TEST DATA

IEC 60529: 2001



Safety Test Center

Report No.: STC-B10-259-02 Customer: KEVIS Inc.  
 Page No.: 2 of 7 Product: CCTV Housing  
 Model: SHB-4300H and the others(Refer to page 4)

## 1. Test Environment

- Temperature: (25 ± 3) °C, Relative Humidity: (65 ± 5) % R.H.
- Location: Dust Chamber, IP Water Test Lab.

## 2. List of Used Equipment

Equipment	Description	Manufacturer	Model	Serial No.	Calibration Valid Until
A-74-01	Dust Chamber	PTL	P14	5040172	2011. 07. 15
A-75-04	Jet Nozzle	ED & D	JET-03	W0750119	2011. 03. 17
B-01-01	Stop Watch	Time Art	PC-80A	TPST002	2010. 10. 16
B-03-03	Tape Measure	HIBO	-	-	2011. 05. 26

## 3. Test Date

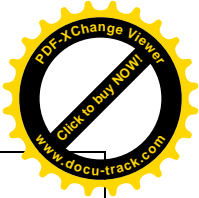
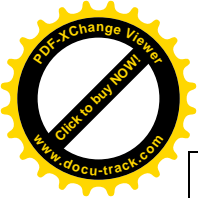
Date of receipt of test item.....:	2010. 07. 26
Date(s) of performance test.....:	2010. 07. 26 ~ 2010. 07. 27

## 4. Test Condition: IP66

## 5. Test Result: Pass

### 1) Dust Test

<b>Test results for dust protection (first characteristic numeral 6)</b>
<b>Description of test:</b>
<b>1. Degree of protection.</b> No ingress of dust
<b>2. Category for enclosure;</b> <input checked="" type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 1 and Category 2
<b>3. Testing method:</b>
- The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 µm and the nominal width between wires was 75 µm
- The amount of talcum powder was 2 kg per cubic meter of the chamber volume.
- The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume.
Category 1



# TEST DATA

IEC 60529: 2001



Safety Test Center

Report No.: STC-B10-259-02 Customer: KEVIS Inc.  
 Page No.: 3 of 7 Product: CCTV Housing  
 Model: SHB-4300H and the others(Refer to page 4)

If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h

If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

**4. Test condition**

The enclosure shall be deemed category 1 whether reductions in pressure below the atmospheric pressure are present or not.

**5. Acceptance conditions**

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

**6. Test result: Pass**

## 2) Water Test

**Test results for water protection (second characteristic numeral 6)**

**Description of test**

**1. Degree of protection.**

Water from projected by a nozzle against the enclosure from any direction shall have no harmful effect

**2. Testing method:**

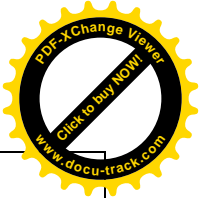
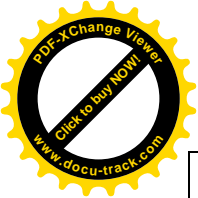
- The test was made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle
- Nozzle internal diameter: 12.5 mm
- Delivery rate: 100 L/min ± 5 %
- Water pressure: to be adjusted to achieve the specified delivery rate
- Test duration per square metre of enclosure surface area likely to be sprayed: 1 min
- Minimum test duration: 3 min
- Distance from the nozzle to the enclosure surface: between 2.5 m and 3 m

**3. Acceptance conditions:**

Dielectric strength test: N/A

It shall not;

- be sufficient to interfere with the correct operation of the equipment for impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;



# TEST DATA

IEC 60529: 2001



Safety Test Center

Report No.: STC-B10-259-02 Customer: KEVIS Inc.  
 Page No.: 4 of 7 Product: CCTV Housing  
 Model: SHB-4300H and the others(Refer to page 4)

- reach live parts or windings not designed to operate when wet;  
 - accumulate near the cable end or enter the cable if any.

**4. Test result: Pass**

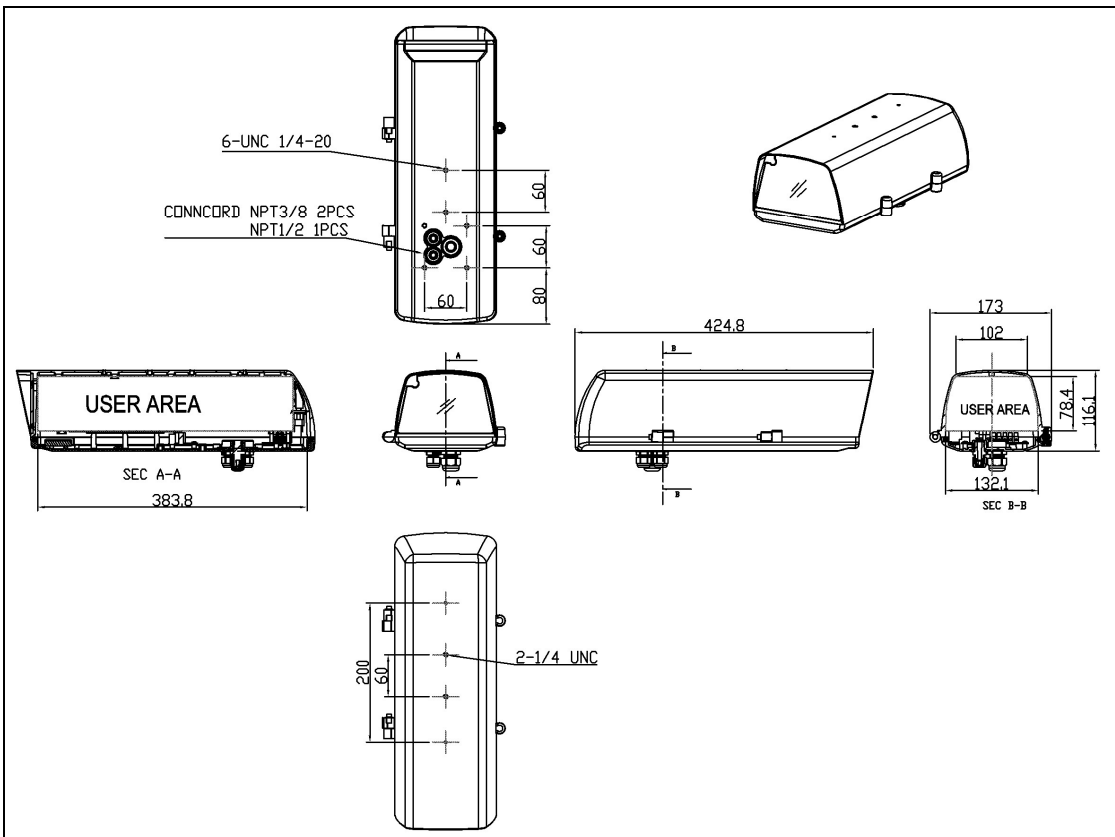
## 6. Reference to difference of applicable model names

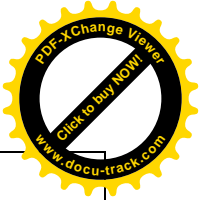
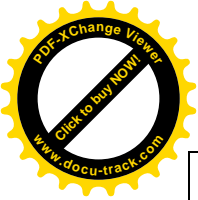
The test was conducted to SHB-4300H. Descriptions on this page are verified by the manufacturer on the condition that all models have a same enclosure. Each model has as same enclosure as the specimen. However, it depends on inner parts and buyer parameter.

### Model name

- SHB-4300H, SHB-4300H1, SHB-4300H2
- SCX-FH200S, SCX-FH210S, SCX-FH230S

## 7. Schematization





# Photo Documentation



Report No.: STC-B10-259-02  
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Customer: KEVIS Inc.  
Product: CCTV Housing  
Model: SHB-4300H and the others(Refer to page 4)



[Specimen: SHB-4300H]

## 1. Test Condition (IP Test)

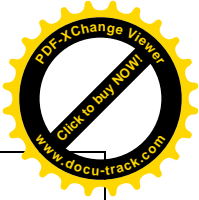
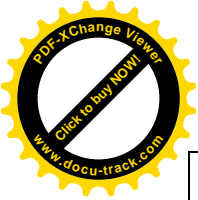
- IP Code: IP66
- 1) Dust test for first characteristic numeral 6
  - Depression: 20 mbar
  - Duration of time: 8 h
- 2) Water test for second characteristic numeral 6 with the 12.5 mm nozzle
  - Internal diameter of the nozzle: 12.5 mm
  - Delivery rate: 100 L/min
  - Duration of time: 3 min

## 2. Applicant & Model

- KEVIS Inc. / CCTV Housing (SHB-4300H and the others (Refer to page 4))

## 3. Test Equipment

- A-74-01, A-75-04, B-01-01, B-03-03



# Photo Documentation



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Customer: KEVIS Inc.

Product: CCTV Housing

Model: SHB-4300H and the others(Refer to page 4)

## 4. Test Figure

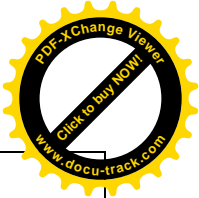
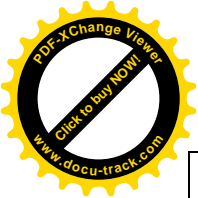
### 1) Dust Test



[Before Test]



[After Test]



# Photo Documentation



Report No.: STC-B10-259-02 Customer: KEVIS Inc.  
Page No.: 7 of 7 Product: CCTV Housing  
Model: SHB-4300H and the others(Refer to page 4)

## 2) Water Test



[Before Test]



[During Test]