

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

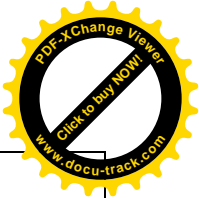
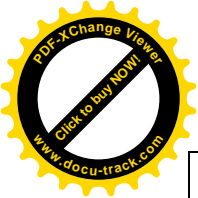
Conformation	Tested by Name H. I. Sok Signature	Approved by Technical Manager Name H. C. Jang Signature
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2010. 07. 28

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

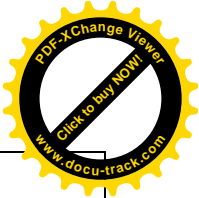
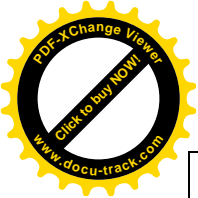
Date of receipt of test item.....:	2010. 07. 26
Date(s) of performance test.....:	2010. 07. 26 ~ 2010. 07. 27

4. Test Condition: IP66

5. Test Result: Pass

1) Dust Test

Test results for dust protection (first characteristic numeral 6)
<p>Description of test:</p> <p>1. Degree of protection. No ingress of dust</p> <p>2. Category for enclosure; <input checked="" type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 1 and Category 2</p> <p>3. Testing method:</p> <ul style="list-style-type: none"> - 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. <p>Category 1</p>



TEST DATA

IEC 60529: 2001



Safety Test Center

Report No.: STC-B10-259-02 Customer: KEVIS Inc.
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 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:

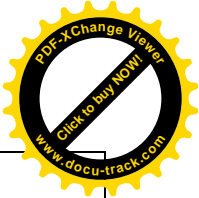
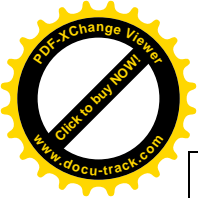
- The test was made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle
- Nozzle internal diameter: 12.5 mm
- Delivery rate: 100 L/min ± 5 %
- Water pressure: to be adjusted to achieve the specified delivery rate
- Test duration per square metre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

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 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

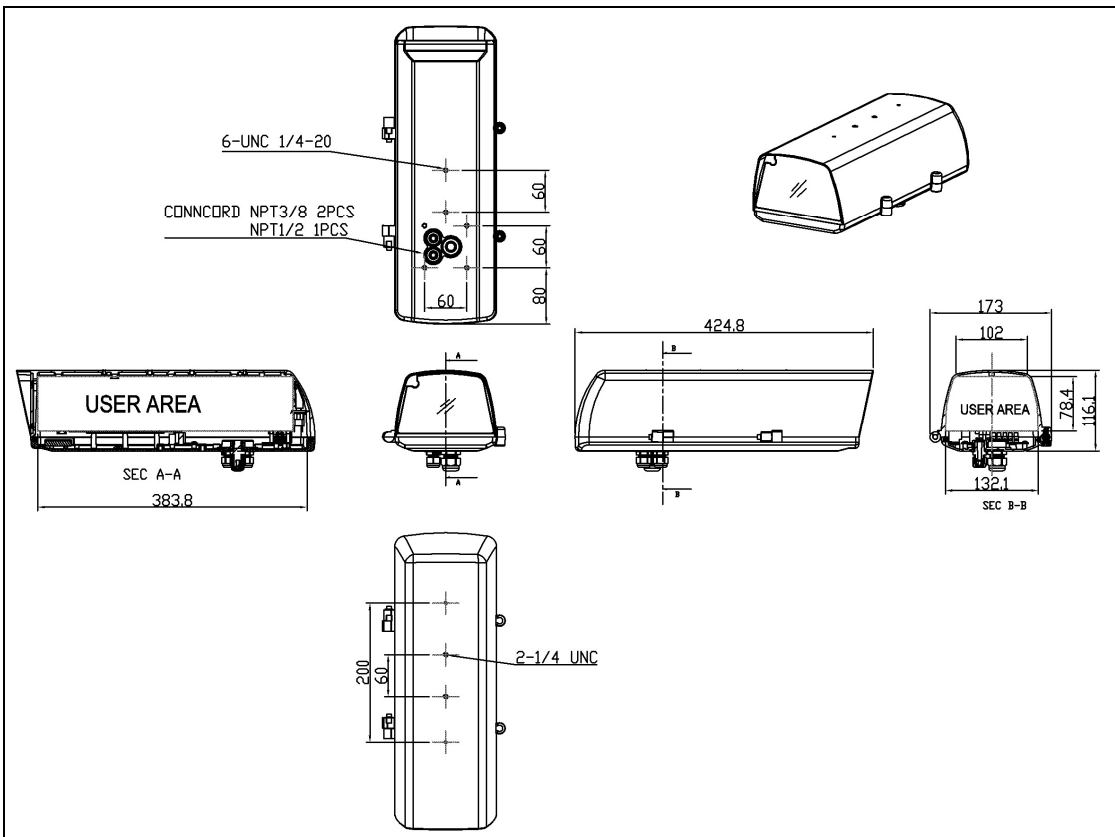
6. Reference to difference of applicable model names

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



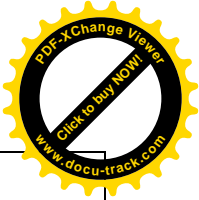
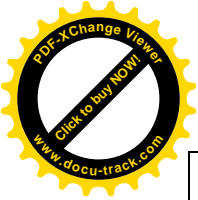


Photo Documentation



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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

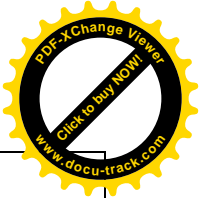
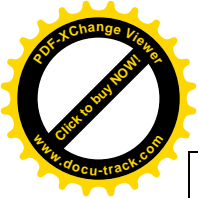


Photo Documentation



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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]

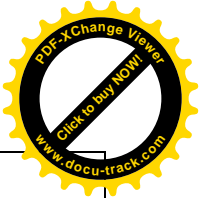
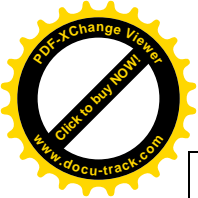


Photo Documentation

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Customer: KEVIS Inc.

Product: CCTV Housing

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

2) Water Test



[Before Test]



[During Test]