



한국전기안전공사
안전인증센터

TEST REPORT



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

Report No. : STC-B09-336(A01)
(Reissued)

Page of : (1) / (8)

1. Customer

- Name : Win4Net Co., Ltd.
- Address : 1027-5, Hogye-dong Dongan-gu, Anyang-si, Gyeonggi-do, Korea
- Date of Receipt : 2009. 10. 22

2. Use of Test Report : Quality assessment

3. Product(s) : Speed Dome Camera

- Type Designation(s) : ET-Series (Refer to page 4)
- Serial No(s) : N/A

4. Date(s) of Test Performance : 2009. 10. 27 ~ 2009. 11. 02

5. Test Item(s)/Method(s) : IEC 60529: 2001 / IP67

6. Test Environment

- Temperature : (20 ± 3) °C
- Relative Humidity : (40 ± 5) % R. H.

7. Test Result : Pass

Conformation

Tested by

Name H. I. Sok Signature 

Approved by Technical Manager

Name J. H. Choi Signature 

2010. 10. 04

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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- This test report has been reissued to changed page 4.

338-1, Yeonghwa Dong, Jangan Gu, Suwon City, Gyeonggi Do, 440-819, Korea

TEST DATA

IEC 60529: 2001

KE/CO
Safety Test Center

Report No.: STC-B09-336(A01) Customer: Win4Net Co., Ltd.
Page No.: 2 / 8 Product: Speed Dome Camera
Model: ET-Series (Refer to page 4)

1. Test Environment

- Temperature: (20 ± 3) °C, Relative Humidity: (40 ± 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	2010. 07. 08
B-01-01	Stop Watch	Time Art	PC-80A	TPST002	2010. 10. 16
B-03-03	Tape Measure	HIBO	-	-	2010. 05. 27

3. Test Date

Date of receipt of test item.....:	2009. 10. 22
Date(s) of performance test.....:	2009. 10. 27 ~ 2009. 11. 02

4. Test Condition: IP67

5. Test Result: Pass

1) Dust Test

Test results for dust protection (first characteristic numeral 6)
Description of test:
1. Degree of protection. No ingress of dust
2. Category for enclosure; <input checked="" type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 1 and Category 2
3. Testing method:
- 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
<input type="checkbox"/> If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h
<input checked="" type="checkbox"/> If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40

TEST DATA

IEC 60529: 2001



Safety Test Center

Report No.: STC-B09-336(A01)
Page No.: 3 / 8

Customer: Win4Net Co., Ltd.
Product: Speed Dome Camera
Model: ET-Series (Refer to page 4)

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 7)

Description of test

1. Degree of protection.

Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time

2. Testing method:

Enclosure height: 270 mm

A) The lowest point of enclosures with a height less than 850 mm is located 1 000 mm below the surface of the water.

B) 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.

Duration of the test is 30 min

The water temperature does not differ from that of the equipment by more than 5 K.

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;
- 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

TEST DATA

IEC 60529: 2001



Safety Test Center

Report No.: STC-B09-336(A01)
Page No.: 4 / 8

Customer: Win4Net Co., Ltd.
Product: Speed Dome Camera
Model: ET-Series (Refer to page 4)

6. Applicable models

The test was conducted to ET-27TN ACC. Descriptions on this page are verified on the condition that all models have a same enclosure by the manufacturer. Each model has as same enclosure as the specimen. However, it has different input voltage (DC & AC), signal (NTSC, PAL), lens (27X, 33X, 37X, Wide dynamic range) and Network type. There is a description

Model name:

27X Camera			33XW Camera		
1	Clebo ET-27TN ACC	27X, NTSC, AC, Ceiling Bracket)	25	Clebo ET-33WTN ACC	33XW, NTSC, AC, Ceiling Bracket)
2	Clebo ET-27TN ACW	27X, NTSC, AC, Wall Bracket)	26	Clebo ET-33WTN ACW	33XW, NTSC, AC, Wall Bracket)
3	Clebo ET-27TN DCC	27X, NTSC, DC, Ceiling Bracket)	27	Clebo ET-33WTN DCC	33XW, NTSC, DC, Ceiling Bracket)
4	Clebo ET-27TN DCW	27X, NTSC, DC, Wall Bracket)	28	Clebo ET-33WTN DCW	33XW, NTSC, DC, Wall Bracket)
5	Clebo ET-27TP ACC	27X, PAL, AC, Ceiling Bracket)	29	Clebo ET-33WTP ACC	33XW, PAL, AC, Ceiling Bracket)
6	Clebo ET-27TP ACW	27X, PAL, AC, Wall Bracket)	30	Clebo ET-33WTP ACW	33XW, PAL, AC, Wall Bracket)
7	Clebo ET-27TP DCC	27X, PAL, DC, Ceiling Bracket)	31	Clebo ET-33WTP DCC	33XW, PAL, DC, Ceiling Bracket)
8	Clebo ET-27TP DCW	27X, PAL, DC, Wall Bracket)	32	Clebo ET-33WTP DCW	33XW, PAL, DC, Wall Bracket)
27X IP Camera			33XW IP Camera		
9	Clebo ETON-27TN DCC	27X, NTSC, DC, Ceiling Bracket)	33	Clebo ETON-33WTN DCC	33XW, NTSC, DC, Ceiling Bracket)
10	Clebo ETON-27TN DCW	27X, NTSC, DC, Wall Bracket)	34	Clebo ETON-33WTN DCW	33XW, NTSC, DC, Wall Bracket)
11	Clebo ETON-27TP DCC	27X, PAL, DC, Ceiling Bracket)	35	Clebo ETON-33WTP DCC	33XW, PAL, DC, Ceiling Bracket)
12	Clebo ETON-27TP DCW	27X, PAL, DC, Wall Bracket)	36	Clebo ETON-33WTP DCW	33XW, PAL, DC, Wall Bracket)
33X Camera			37X Camera		
13	Clebo ET-33TN ACC	33X, NTSC, AC, Ceiling Bracket)	37	Clebo ET-37TN ACC	37X, NTSC, AC, Ceiling Bracket)
14	Clebo ET-33TN ACW	33X, NTSC, AC, Wall Bracket)	38	Clebo ET-37TN ACW	37X, NTSC, AC, Wall Bracket)
15	Clebo ET-33TN DCC	33X, NTSC, DC, Ceiling Bracket)	39	Clebo ET-37TN DCC	37X, NTSC, DC, Ceiling Bracket)
16	Clebo ET-33TN DCW	33X, NTSC, DC, Wall Bracket)	40	Clebo ET-37TN DCW	37X, NTSC, DC, Wall Bracket)
17	Clebo ET-33TP ACC	33X, PAL, AC, Ceiling Bracket)	41	Clebo ET-37TP ACC	37X, PAL, AC, Ceiling Bracket)
18	Clebo ET-33TP ACW	33X, PAL, AC, Wall Bracket)	42	Clebo ET-37TP ACW	37X, PAL, AC, Wall Bracket)
19	Clebo ET-33TP DCC	33X, PAL, DC, Ceiling Bracket)	43	Clebo ET-37TP DCC	37X, PAL, DC, Ceiling Bracket)
20	Clebo ET-33TP DCW	33X, PAL, DC, Wall Bracket)	44	Clebo ET-37TP DCW	37X, PAL, DC, Wall Bracket)
33X IP Camera			37X IP Camera		
21	Clebo ETON-33TN DCC	33X, NTSC, DC, Ceiling Bracket)	45	Clebo ETON-37TN DCC	37X, NTSC, DC, Ceiling Bracket)
22	Clebo ETON-33TN DCW	33X, NTSC, DC, Wall Bracket)	46	Clebo ETON-37TN DCW	37X, NTSC, DC, Wall Bracket)
23	Clebo ETON-33TP DCC	33X, PAL, DC, Ceiling Bracket)	47	Clebo ETON-37TP DCC	37X, PAL, DC, Ceiling Bracket)
24	Clebo ETON-33TP DCW	33X, PAL, DC, Wall Bracket)	48	Clebo ETON-37TP DCW	37X, PAL, DC, Wall Bracket)
Mega Pixel Camera					
49	Clebo PM-10S	Mega pixel	51	Clebo PM-20S	Mega pixel
50	Clebo PM-10HT	Mega pixel			

TEST DATA

IEC 60529: 2001



Safety Test Center

Report No.: STC-B09-336(A01)
Page No.: 5 / 8

Customer: Win4Net Co., Ltd.
Product: Speed Dome Camera
Model: ET-Series (Refer to page 4)

7. Schematic

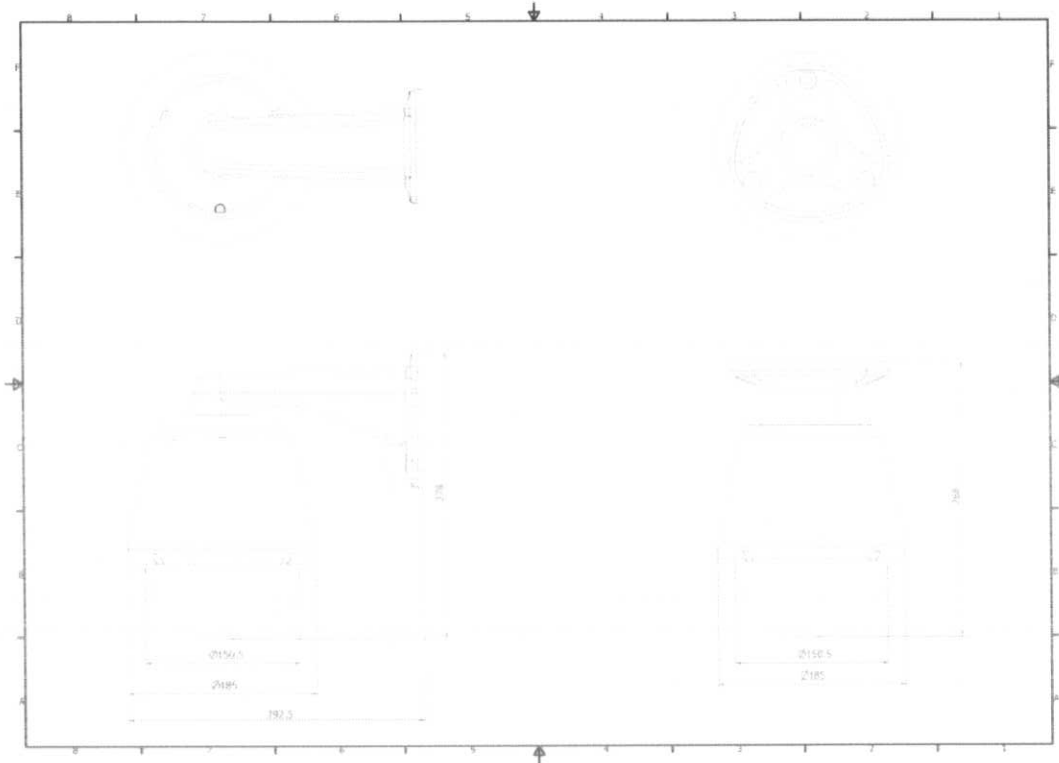
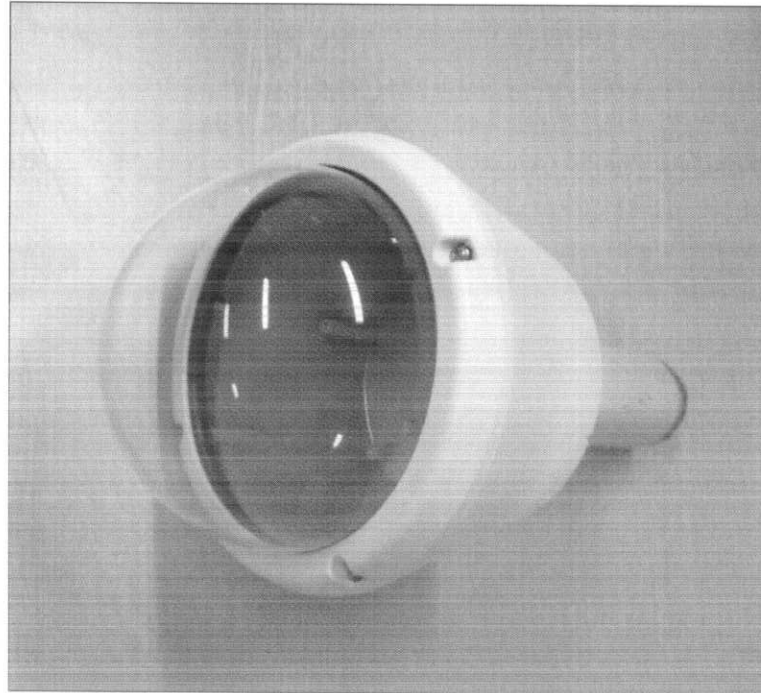


Photo Documentation

Report No.: STC-B09-336(A01)
Page No.: 6 / 8

Customer: Win4Net Co., Ltd.
Product: Speed Dome Camera
Model: ET-Series (Refer to page 4)



[Specimen]

1. Test Condition (IP Test)

- Test Date: 2009. 10. 27 ~ 2009. 11. 02
- IP Code: IP67
 - 1) Dust test for first characteristic numeral 6
 - Depression: 20 mbar
 - Duration of time: 8 h
 - 2) Water test for second characteristic numeral 7
 - Duration of time: 30 min

2. Applicant & Model

- Win4Net Co., Ltd. / Speed Dome Camera (ET-Series)

3. Test Equipment

- A-74-01, B-01-01, B-03-03

Photo Documentation

Report No.: STC-B09-336(A01)
Page No.: 7 / 8

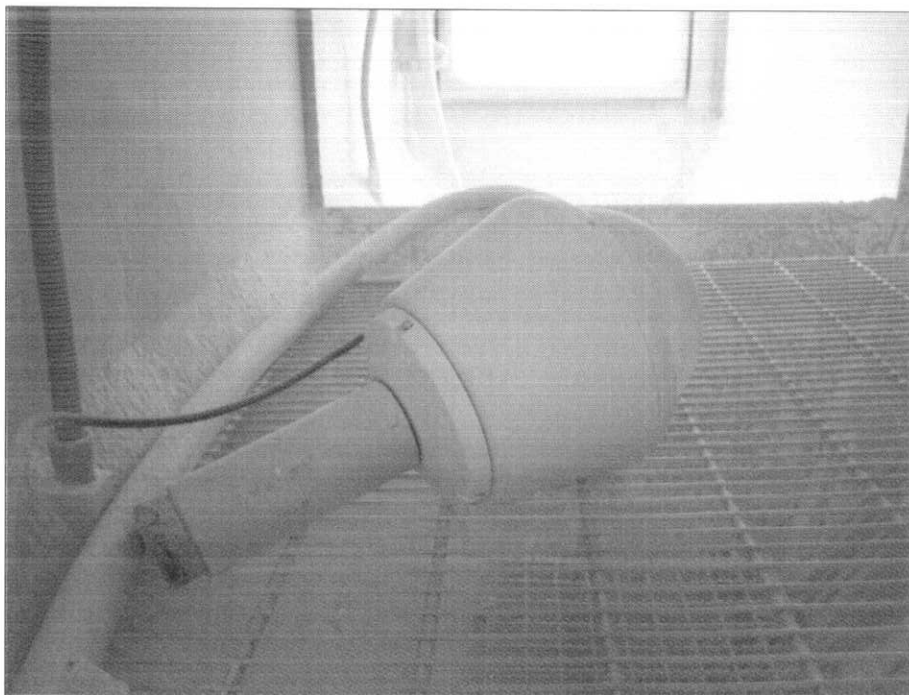
Customer: Win4Net Co., Ltd.
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4. Test Figure

1) Dust Test



[Before Test]



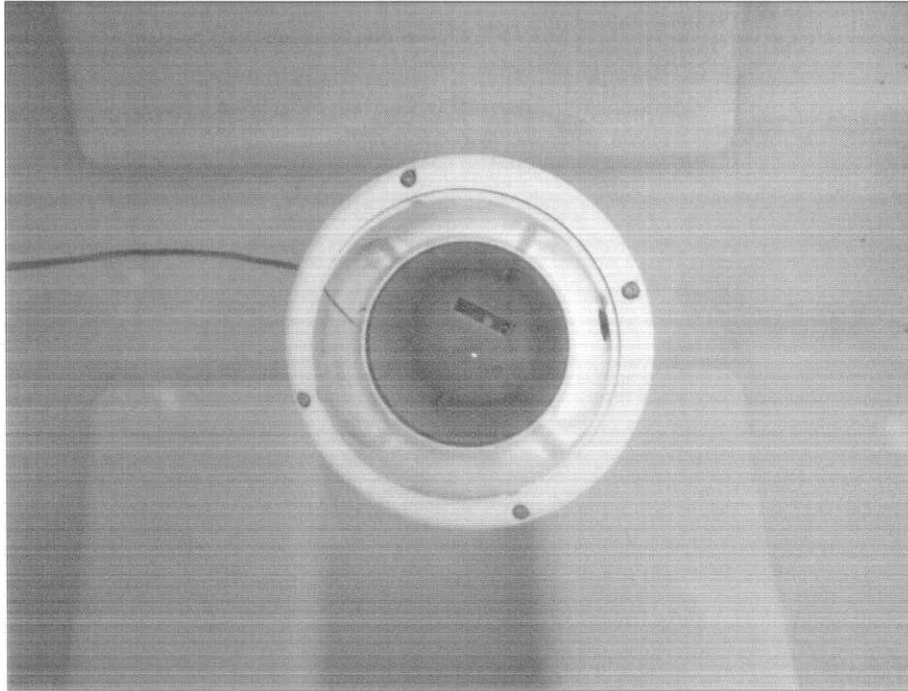
[After Test]

Photo Documentation

Report No.: STC-B09-336(A01)
Page No.: 8 / 8

Customer: Win4Net Co., Ltd.
Product: Speed Dome Camera
Model: ET-Series (Refer to page 4)

2) Water Test



[During Test]