

## Test Report

No. AJFS1904002588FF

Date: APR.21, 2019

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HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD

NO.555, QIANMO ROAD, BINJIANG DISTRICT, HANGZHOU, 310052, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

**Sample Description:** NETWORK CAMERA

**SGS Ref No.:** SHES1903013236TX

**Trade Mark:** HIKVISION

**Model No.:** DS-2XM6756G0-IDS

### **TEST(S) REQUESTED:**

Assessment on the fire performance of "Compliant HL3", which defined in EN 45545-2:2013+A1:2015  
Railway applications—Fire protection on railway vehicles Part 2: Requirements for fire behaviour of  
materials and components, for the "NETWORK CAMERA, Model No.: DS-2XM6756G0-IDS"

**TEST RESULT(S):** -- See attached sheet --

### **Test Period:**

Sample Receiving Date : MAR.29, 2019

Test Performing Date : MAR 29, 2019 TO APR.21, 2019

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anji Branch

Allen Zou  
Lab Manager



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### I. INTRODUCTION

This assessment report is for appraisal on "NETWORK CAMERA, Model No.: DS-2XM6756G0-IDS".

This assessment report presents an assessment of the ability of the "NETWORK CAMERA, Model No.: DS-2XM6756G0-IDS" and whether it is acceptable applied in the scope which required the fire performance HL3, as the product used in railway vehicles, specified in EN 45545-2:2013+A1:2015.

### II. REFERENCES

In this document the "NETWORK CAMERA, Model No.: DS-2XM6756G0-IDS" applied by HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD will be evaluated in respect of conformity to the generally recognized codes of practice. The assessment is based on the following standards;

1. EN 45545-1:2013 Railway applications - Fire protection on railway vehicles – Part 1: General;
2. EN 45545-2:2013+A1:2015 Railway applications—Fire protection on railway vehicles Part 2: Requirements for fire behaviour of materials and components;
3. 96/603/EC Commission decision of 4 October 1996, establishing the list of products to Class A "No contribution to fire" provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC on construction products.
4. EN 60695-2-11:2014 Fire hazard testing — Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT), Glow wire temperature 850°C

### III. PRODUCT DETAILS OF ASSESSED

#### Part 1. General

The details of the tested specimen given below have been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

To be continued...



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## Test Report

No. AJFS1904002588FF

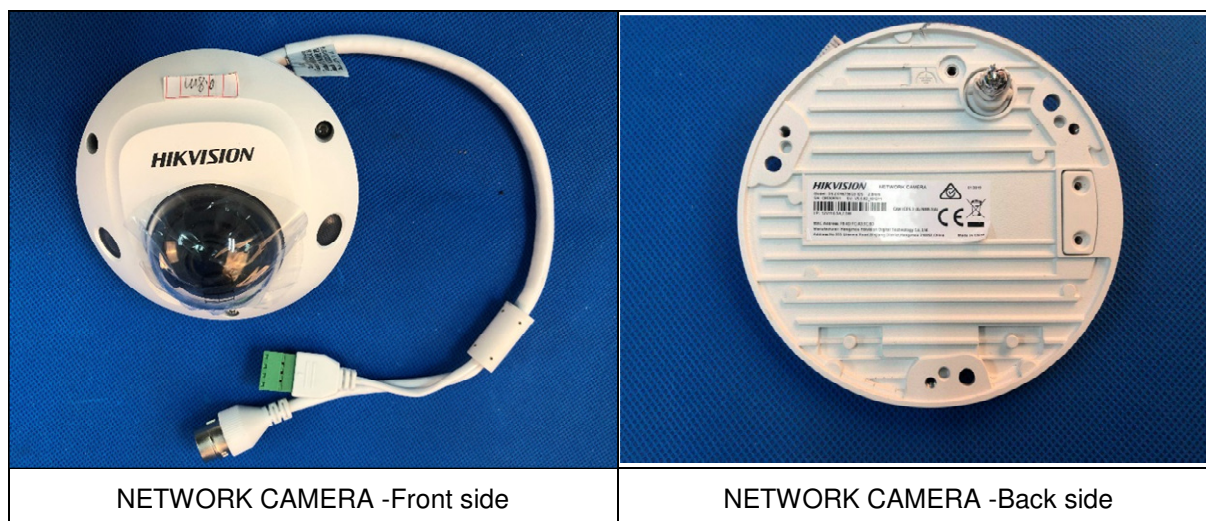
Date: APR.21, 2019

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|                     |                                                                                                                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General description | NETWORK CAMERA                                                                                                                                                                                                                                                                                   |
| Product Model       | DS-2XM6756G0-IDS                                                                                                                                                                                                                                                                                 |
| Manufacturer        | HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD                                                                                                                                                                                                                                                   |
| Address:            | NO.555, QIANMO ROAD, BINJIANG DISTRICT, HANGZHOU, 310052, CHINA                                                                                                                                                                                                                                  |
| Factory:            | HANGZHOU HIKVISION TECHNOLOGY CO., LTD, HANGZHOU HIKVISION ELECTRONICS CO., LTD, CHONGQING HIKVISION TECHNOLOGY CO., LTD                                                                                                                                                                         |
| Address:            | NO.700, DONGLIU ROAD, BINJIANG DISTRICT, HANGZHOU CITY, ZHEJIANG, 310052, CHINA<br>NO.299, QIUSHI ROAD, TONGLU ECONOMIC DEVELOPMENT ZONE, TONGLU COUNTY, HANGZHOU, ZHEJIANG, 310052, CHINA<br>NO.118, HAIKANG ROAD, AREA C, JIANQIAO INDUSTRIAL PARK, DADUKOU DISTRICT, CHONGQING, 401325, CHINA |
| Power               | 12V= 0.5A, 7.5W                                                                                                                                                                                                                                                                                  |
| S/N                 | C85309761                                                                                                                                                                                                                                                                                        |
| End use             | Railway Vehicle                                                                                                                                                                                                                                                                                  |

The NETWORK CAMERA basically consists of: Metal enclosure, Adapter foundation, Silicone pad, PCB, PVC connector wire, Interior Black plastic parts, Transparent hood for lens. The construction combines elements made of several plastics and metallic parts. The major mass of non-metal material is used for Silicone pad, PCB, PVC connector wire, Interior Black plastic parts, Transparent hood for lens.

A list of materials is shown in the follow materials table provided by the manufacturer.



To be continued...



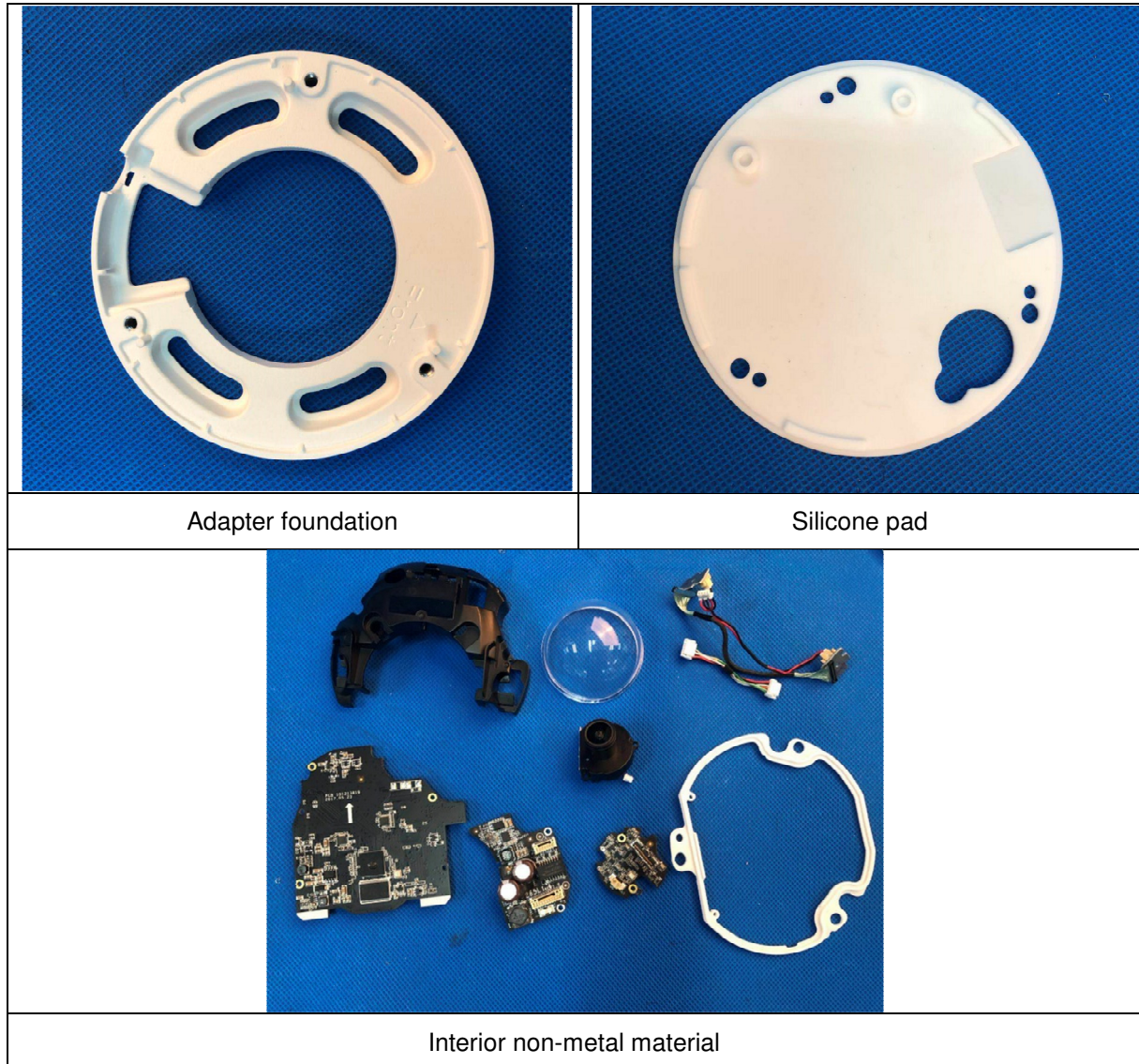
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### Part 2: Installation

The NETWORK CAMERA is designed for installation interior vehicles (e.g. in the passenger area, Ceiling). Based on the full metal enclosure except for the transparent hood for lens, the inner grouping will be separated from the adjacent components of the vehicle. Also the ceiling panel shall be comply the designed hazard level and it would be impossible to install some components around the camera with the 20mm range.

To be continued...

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### Part 3, Materials/components list

The evaluation is based on the combustible mass of materials. Therefore, all combustible materials (plastic, PCB, etc) will be considered. Metallic materials are not combustible and therefore they will not be taken into account.

According to the sample details and the specification of EN 45545-2, the following materials are relevant for evaluation:

| NETWORK CAMERA, Model No.: DS-2XM6756G0-IDS |                                 |          |         |                |         |                                                                                                                                                                                              |
|---------------------------------------------|---------------------------------|----------|---------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NO.                                         | Description                     | Location | Mass, g | Requirement    | Results | Remark                                                                                                                                                                                       |
| 1                                           | Enclosure-Metal                 | Outside  | /       | R22            | A       | 96/603/EC, A1                                                                                                                                                                                |
| 2                                           | Adapter foundation-Metal        | Outside  | /       | R22            | A       | 96/603/EC, A1                                                                                                                                                                                |
| 3                                           | Silicone pad                    | Outside  | 20.89   | R24            | R24 HL2 | AJFS1711009851FF, date: Nov 29,2017<br>EN 45545-2, Clause 4.3, Total combustible Mass<100g for grouped products (inside of camera), No requirement<br>Total mass of outside of camera=79.86g |
| 4                                           | Silicone pad 2                  | Inside   | 2.50    | No requirement | /       | EN 45545-2, Clause 4.3.1, no requirements apply to products with a combustible mass of <10g not on touching contact with another unclassified product.                                       |
| 5                                           | PCB                             | Inside   | 43.41   | R24/R25        | R25 HL3 | EN 45545-2, Clause 4.4, Table 2- Requirements of listed products, EL10 small electrotechnical products<br>AJFS1903002593FF, date: APR 16. 2019                                               |
| 6                                           | PVC connector wire              | Outside  | 58.97   | /              | /       | EN 45545-2, Clause 4.3, Total combustible Mass<100g for grouped products (inside of camera), No requirement<br>Total mass of outside of camera=79.86g                                        |
| 7                                           | Interior Black plastic parts-PC | Inside   | 14.73   | R24            | R24 HL3 | AJFS1711009855FF, date: NOV29, 2017                                                                                                                                                          |
| 8                                           | Transparent hood for lens-PC    | Outside  | 6.31    | No requirement | /       | EN 45545-2, Clause 4.3.1, no requirements apply to products with a combustible mass of <10g not on touching contact with another unclassified product.                                       |

To be continued...



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### IV. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS ASSESSMENT

| Name of the laboratory | Name of the sponsor                                        | Test report ref.No.                     | Test methods  | Test results                           |
|------------------------|------------------------------------------------------------|-----------------------------------------|---------------|----------------------------------------|
| SGS-CSTC               | HANGZHOU<br>HIKVISION<br>DIGITAL<br>TECHNOLOGY<br>CO., LTD | AJFS1711009851FF,<br>date: Nov 29,2017  | EN ISO 4589-2 | 30.0% (ISO 17025<br>Accreditation)     |
| SGS-CSTC               | HANGZHOU<br>HIKVISION<br>DIGITAL<br>TECHNOLOGY<br>CO., LTD | AJFS1903002593FF,<br>date: APR 16. 2019 | EN 60695-2-11 | 850℃ Pass (ISO 17025<br>Accreditation) |
| SGS-CSTC               | HANGZHOU<br>HIKVISION<br>DIGITAL<br>TECHNOLOGY<br>CO., LTD | AJFS1711009855FF,<br>date: NOV29, 2017  | EN ISO 4589-2 | 40.4% (ISO 17025<br>Accreditation)     |

### V. BASIS OF THIS ASSESSMENT

The basis for the evaluation of fire safety is the classification of vehicle types where the NETWORK CAMERA, Model No.: DS-2XM6756G0-IDS will be installed.

Following classifications are taken as basis:

EN 45545-2:2013+A1:2015 Railway applications—Fire protection on railway vehicles Part 2:  
Requirements for fire behaviour of materials and components, Hazard Level HL3

### VI. ASSESSMENT ACCORDING TO EN 45545-2

Based on the requirements of EN 45545-2, the fire safety requirements for materials of electrical and electronic devices are defined in according to the installation location.

Considering the mass of combustible material of the NETWORK CAMERA, EN 45545-2 clause 4.2 n) “if listed products are used in an application below the mass and area thresholds given in 4.3, they may be treated as non-listed products” is applicable.

Therefore, the requirements of clause 4.3 “Grouping rules” will be assessed.

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Key applicable grouping rules:

- No requirements apply to products with a combustible mass of < 10 g not in touching contact with another unclassified product.
- If fully separated by a plate compliant with the fire integrity requirement of 5.3.6, then assign as different group.
- 4.3.2 Rule 1

If the total combustible mass of the grouped products is

- < 100 g for interior grouped products; or
- < 400 g for exterior grouped products;

no requirements apply to the products of this group.

- 4.3.3 Rule 2

If the total combustible mass of the grouped products is

- < 500 g for interior grouped products; or
- < 2000 g for exterior grouped products;

one combustible product of this group has to be tested according to R24.

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Clause 4.2 General,

n) if listed products are used in an application below the mass and area thresholds given in 4.3, they may be treated as non-listed products.

Alternatively, the requirement set EL9 according to clause 4.4 Table 2 "Listed products" is applicable for PCB.

### ASSESSMENT:

#### PCB

As showed within the test report AJFS1903002593FF , it pass 850℃, complies with the requirements of HL3 defined in EN 45545-2:2013+A1:2015.

#### Transparent hood for lens-PC

The mass of the hood is 6.31g and not contact with any unclassified product. Therefore, under the clause 4.3.1 of EN 45545-2, exempt from the fire requirements defined in EN 45545-2:2013+A1:2015.

#### Interior Black plastic parts-PC

As showed within the test report AJFS1711009855FF, oxygen index=40.4%, complies with the requirements of HL3 defined in EN 45545-2:2013+A1:2015.

#### Silicone pad 2

The mass of the hood is 2.50 g and not contact with any unclassified product. Therefore, under the clause 4.3.1 of EN 45545-2, exempt from the fire requirements defined in EN 45545-2:2013+A1:2015.

#### PVC connector wire + Silicone pad

Total Mass of outside of camera=79.86, according to the EN 45545-2:2013+A1:2015 4.3.2 Rule 1

"If the total combustible mass of the grouped products is

— < 100 g for interior grouped products; or

— < 400 g for exterior grouped products;

no requirements apply to the products of this group."

So, no requirement.

To be continued...



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### Assessment of the ignite risks of PVC connector wire and silicone pad:

General speaking, no potential ignition source around the ceiling installed NETWORK CAMERA. An ignition inside the NETWORK CAMERA via a technical defect cannot be fundamentally excluded, but is extremely unlikely and the inside materials also complies with the criteria of fire performance, there are no ignite risks.

Based on the test report of the silicone pad, achieved with medium fire performance (silicone pad:  $OI=30.0\%$ ), means with self-extinguishing properties under the air. Also the NETWORK CAMERA is in the visual field of passenger, any fire risk can found and act immediately.

Thus the use of PVC connector wire and silicone pad with  $OI=30.0\%$ , the total weight 79.86g, is accepted.

### Assessment of the risks of a further fire development:

Because of its tight design and metal enclosure, the ignition and fire occurring inside and outside the device are limited. Also the quantity of the combustion materials is very limited. A fire development and spreading from the NETWORK CAMERA are thus also not conceivable.

Based on the test report and evaluation, it shows that the tested product does not have recognizable ignition and fire risks and evaluated as conform to the requirement of EN 45545-2, Clause 4.1 essential fire safety objectives.

## VII. CONCLUSION

The fire protection documents and limitation are evaluated based on the standards EN 45545-1:2013 and EN 45545-2:2013+A1:2015.

The evaluation of all the presented descriptions, test report and documents show that the construction and material selection of the NETWORK CAMERA comply with the requirements HL1 to HL3 of EN 45545-1:2013 and EN 45545-2:2013+A1:2015.

The evaluation is based on the verified demonstration documents.

To be continued...



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### IX. LIMITATION

As for fire safety of evaluated product, based on the grouping ruler of EN 45545-2 clause 4.3, there should be no any unclassified product around the camera within horizontal distance 20 mm and the vertical distance 200 mm, except from the contact unclassified product with mass less 10g.

They can be used in all the operation category and design category in the rail vehicles without restrictions.

### STATEMENTS:

The assess results relate only to the product in the form in which were assessed.

The purpose of the report is to provide a general overview of the evidence currently available and it should be read in conjunction with the specific reports detailed for each product where additional information is required.

### Additional Information (Provide by sponsor)

DS-2XM6756G0-IDS,DS-2XM6756G0-IDSUHK,DS-2XM6756G0-IDSCKV, DS-2XM6736G0-IDS,DS-2XM6736G0-IDSUHK,DS-2XM6736G0-IDSCKV, DS-2XM6726G0-IDS,DS-2XM6726G0-IDSUHK,DS-2XM6726G0-IDSCKV,DS-2XM6756G0-IDM,DS-2XM6756G0-IDMUHK,DS-2XM6756G0-IDMCKV,DS-2XM6736G0-IDM,DS-2XM6736G0-IDMUHK,DS-2XM6736G0-IDMCKV,DS-2XM6726G0-IDM,DS-2XM6726G0-IDMUHK,DS-2XM6726G0-IDMCKV,DS-2XM6756G0-IS/ND,DS-2XM6756G0-IS/NDUHK,DS-2XM6756G0-IS/NDCKV,DS-2XM6736G0-IS/ND,DS-2XM6736G0-IS/NDUHK,DS-2XM6736G0-IS/NDCKV,DS-2XM6726G0-IS/ND,DS-2XM6726G0-IS/NDUHK,DS-2XM6726G0-IS/NDCKV,DS-2XM6756G0-IM/ND,DS-2XM6756G0-IM/NDUHK,DS-2XM6756G0-IM/NDCKV,DS-2XM6736G0-IM/ND,DS-2XM6736G0-IM/NDUHK,DS-2XM6736G0-IM/NDCKV,DS-2XM6726G0-IM/ND,DS-2XM6726G0-IM/NDUHK,DS-2XM6726G0-IM/NDCKV, DS-2XM6726FWD-IS, DS-2XM6726FWD-IM, DS-2XM6726FWD-IMUHK, DS-2XM6726FWD-IMCKV,DS-2XM6726FWD-I, DS-2XM6726FWD-ISUHK, DS-2XM6726FWD-ISCKV,DS-2XM6726FWD-IM/ND,DS-2XM6736FWD-IM, DS-2XM6736FWD-IMUHK, DS-2XM6736FWD-IMCKV,DS-2XM6736FWD-I,DS-2XM6736FWD-IS, DS-2XM6736FWD-ISUHK, DS-2XM6736FWD-ISCKV,DS-2XM6736FWD-IM/ND,DS-2XM6756FWD-IM, DS-2XM6756FWD-IMUHK, DS-2XM6756FWD-IMCKV,DS-2XM6756FWD-I,DS-2XM6756FWD-IS, DS-2XM6756FWD-ISUHK, DS-2XM6756FWD-ISCKV,DS-2XM6756FWD-IM/ND

As the statement by sponsor, only the pixels and the sales markets of products with above additional model No. are different from the product with model No. DS-2XM6756G0-IDS.

Based on the specification of EN 45545-2, the difference of the pixels and the sales markets are not relevant to the fire behavior of the product, so the conclusion of this document is also applicable for the products with above additional model No.

To be continued...



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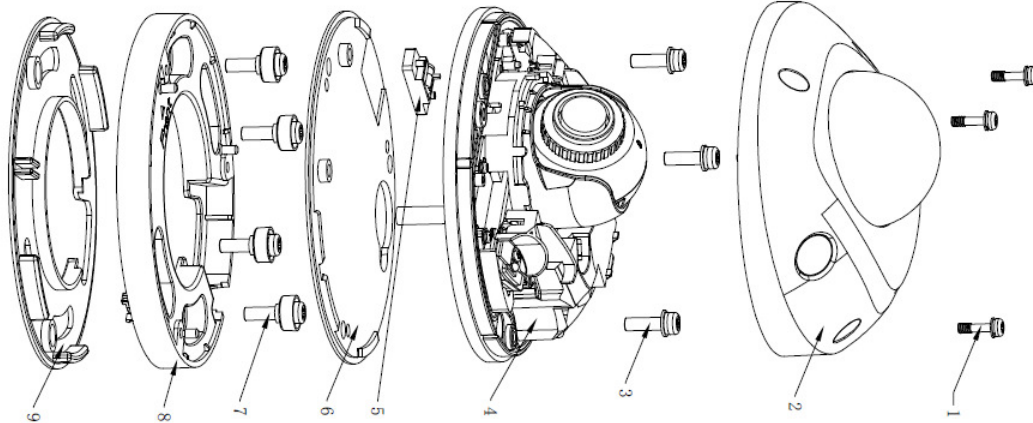
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### Appendix 1: Photo



To be continued...

### Appendix 2, Module Structure



| NO. | DESCRIPTION                       | PART NO. | QTY | REMARK |
|-----|-----------------------------------|----------|-----|--------|
| 1   | M3 SCREW                          |          | 3   |        |
| 2   | Top cover ASSY                    |          | 1   |        |
| 3   | M4 SCREW                          |          | 3   |        |
| 4   | BODY ASSY                         |          | 1   |        |
| 5   | MIC AND MIC COVER ASSY            |          | 1   |        |
| 6   | Silicone rubber of the body       |          | 1   |        |
| 7   | M4 SCREW                          |          | 3   |        |
| 8   | Mounting plate                    |          | 1   |        |
| 9   | Silicone rubber of mounting plate |          | 1   |        |

SGS authenticate the photo on original report only

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



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