

# TEST REPORT

 <b>CTK Co., Ltd.</b> <small>The Power Leader of Global Regulatory Certification</small>	<b>CTK Co., Ltd.</b> (Ho-dong) 113, Yejik-ro, Cheoin-gu, Yongin-shi Gyeonggi-do KOREA, REPUBLIC OF Tel: +82-31-339-9970 Fax: +82-31-624-9501	REPORT No.: CTK-2020-04949 Page (1) / (8) pages	
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## 1. Applicant

- Name .....: Hanwha Techwin Co., Ltd.
- Address.....: Hanwha Techwin R&D center, 6 Pangyo-ro  
319Beon-gil, Bundang-gu, Seongnam-si,  
Gyeonggi-do, 13488 KOREA
- Date of Receipt.....: 2020-11-15

## 2. Manufacturer

- Name .....: Hanwha Techwin Co., Ltd.

## 3. Use of Report .....: Quality control

## 4. Test sample / Model .....: NETWORK CAMERA / PNM-9322VQP


## 5. Date(s) of test .....: 2020-12-04

## 6. Test Standard (Method) used....: KS C IEC 62262: 2005

## 7. Testing Environment.....: Temperature: (25.0 ± 10.0) °C, Humidity: (50 ± 25) %R.H., Air Pressure: (99.0 ± 2) kPa

## 8. Results .....: Refer to each test items


The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
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Approval	Tested by: SooChan Bae  (Signature)	Technical Manager: YenHwang Jung  (Signature)
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2020-12-17

**CTK Co., Ltd.**



 <p><b>CTK Co., Ltd.</b> The Prime Leader of Global Regulatory Certification</p>	<p><b>CTK Co., Ltd.</b> (Ho-dong) 113, Yejik-ro, Cheoin-gu, Yongin-shi Gyeonggi-do KOREA, REPUBLIC OF Tel: +82-31-339-9970 Fax: +82-31-624-9501</p>	<p>REPORT No.: CTK-2020-04949 Page (2) / (8) pages</p>	
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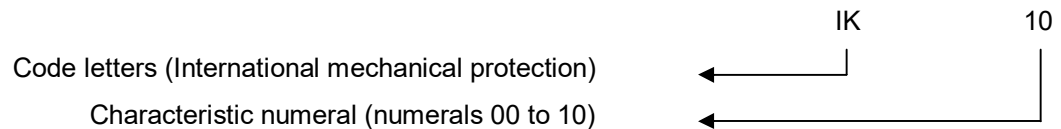
Test place

<b>Institution name</b>	CTK Co., Ltd.
<b>Address</b>	113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea

## 1. Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

### 1.1 Test standard: KS C IEC 62262: 2005

### 1.2 Arrangement of the IK code



### 1.3 Vertical Hammer

#### 1.3.1 Test equipment

Equipment	Model	Manufacturer	Serial
Vertical Hammer	20J	Kingpo	TX029-3

#### 1.3.2 Test condition

IK code	Impact Energy (J)	Equivalent mass (kg)	Drop height (mm ± 1%)	Application
00	Non-protected	-	-	<input type="checkbox"/>
01	0.14	0.25	56	<input type="checkbox"/>
02	0.20	0.25	80	<input type="checkbox"/>
03	0.35	0.25	140	<input type="checkbox"/>
04	0.50	0.25	200	<input type="checkbox"/>
05	0.70	0.25	280	<input type="checkbox"/>
06	1.00	0.25	400	<input type="checkbox"/>
07	2.00	0.50	400	<input type="checkbox"/>
08	5.00	1.70	300	<input type="checkbox"/>
09	10.00	5.00	200	<input type="checkbox"/>
10	20.00	5.00	400	<input checked="" type="checkbox"/>
- Impact times: five times for each of the exposed surface. (Do not impact more than 3 times in the same spot)				

#### 1.3.3 Check Item

- External protection Enclosure damage check (except accessories not related to outer protection function)

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#### 1.3.4 Test Result

Item	Contents	Result
External protection Enclosure	No damage	Pass
<p>Comment</p> <p>Some scratches were generated on the outside of the product.</p>		

#### Manufacturer's name

<p>Name and address of factory (ies)</p>	<ol style="list-style-type: none"> <li>1) HANWHA TECHWIN SECURITY VIETNAM CO.,LTD Lot O-2, Que Vo Industrial Zone extended area, Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam</li> <li>2) D-TECH CO.,LTD. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea(Suwon Industrial Complex)</li> </ol>
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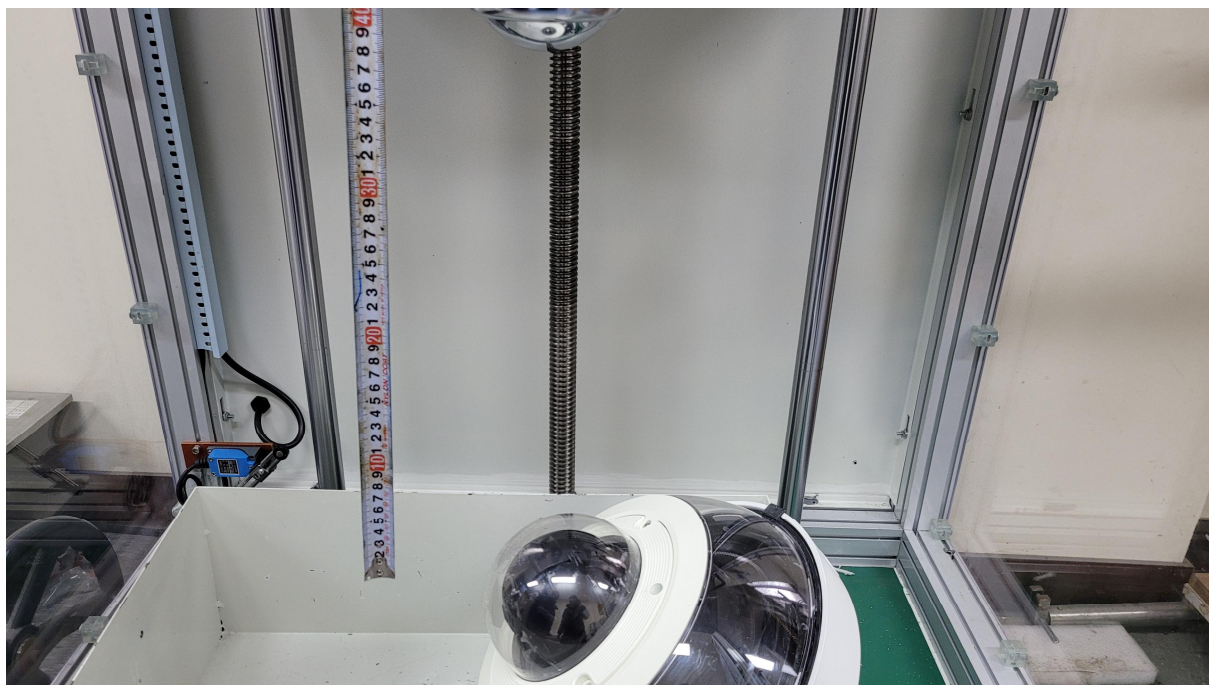
## 2. Attachment

### 2.1 Products





## 2.2 Test photos



### 2.3 Photos after test



## 2.4 Enclosure Dimensions or Impact point (Unit: mm)

