


# 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-2019-01677-2 Page (1) / (12) 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..... : 2017-08-03

## 2. Manufacturer

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

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

## 4. Test sample / Model ..... : CCTV CAMERA / HCO-6070R

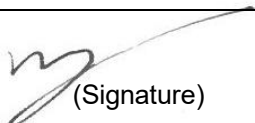

## 5. Date(s) of test ..... : 2017-09-13

## 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: Min-Gi Mun  (Signature)	Technical Manager: WonHyeon Choi  (Signature)
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2021-10-15

**CTK Co., Ltd.**



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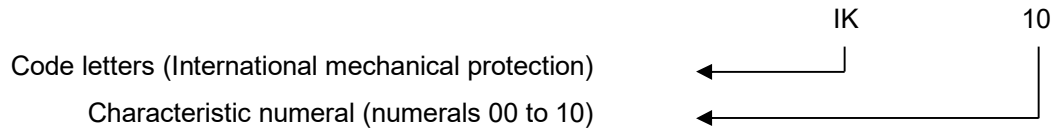
Test place

<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	Application
Vertical Hammer	20J	Kingpo	TX028-3	<input checked="" type="checkbox"/>


#### 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
Comment  Some scratches were generated on the outside of the product.		

### Manufacturer's name

Name and address of factory (ies)	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  2) D-TECH CO.,LTD. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)
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### Model description

Basic Model .....	HCO-6070R
Series model .....	SCO-6085R, SCO-6083R, SCO-6085RVP, SUO-6085R, HCO-6080R, QNO-6082R, QNO-6083R, QNO-7082R, QNO-6082R1
Model differences .....	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in electronic parts inside the product.

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## 2. Attachment

### 2.1 Products







## CTK Co., Ltd.

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## 2.2 Test photos



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## 2.3 Photos after test


[P1, P2]



[P3] [P4]





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[P5]



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

