



Amendment to Test Report

This Amendment is valid only together with the main Test Report

Report Number.: **KES-SA-22T0086-R1**

Main Report Number.: KES-SA-22T0086

Date of issue: 2023-02-23

Total number of pages: 12 pages

Name of Testing Laboratory preparing the Report.....: KES Co., Ltd.
473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of

Applicant's name.....: **Hanwha Vision Co., Ltd**

Address: 6, Pangyo-ro, 319 Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488, Korea

Test specification:

Standard: EN IEC 62368-1:2020+A11:2020

Test procedure: -

Non-standard test method.....: N/A

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The authenticity of the test report, contact kes@kes.co.kr

Test item description	SSM Workstation
Trade Mark(s)	 Hanwha Vision
Manufacturer	Hanwha Vision Co., Ltd 6, Pangyo-ro, 319 Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488, Korea
Model/Type reference	XWV-3010
Ratings	4.2 A, 100-240 V~, 50/60 Hz



Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	KES Co., Ltd.
Testing location/ address		473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of
Tested by (name, function, signature)		KangHan, Lee 
Approved by (name, function, signature) ...:		Jaekwan, Cha 
☐	Testing procedure: CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature) ...:		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) ..:		
Approved by (name, function, signature) ...:		
☐	Testing procedure: CTF Stage 3:	
☐	Testing procedure: CTF Stage 4:	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) ..:		
Approved by (name, function, signature) ...:		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment):

N/A

Summary of testing:

Tests performed (name of test and test clause):

N/A

Testing location:

N/A

Summary of compliance with National Differences (List of countries addressed):

☒ The product fulfils the requirements of IEC 62368-1:2018 and EN IEC 62368-1:2020+A11:2020.

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

☒ Statement not required by the standard used for type testing

Copy of marking plate:

The artwork below may be only a draft.

SSM Workstation

MODEL: XWV-3010

AC 100-240V~, 50/60Hz, 4.2A

M/C: XWV-3010/KAP



DATE: 2023.02

S/N : ZSWT71QW200001A

MADE IN CHINA

Hanwha Vision Co., Ltd



XWV-3010 model according to change of information for label.

Test item particulars:			
Product group	☒ end product	☐ built-in component	
Classification of use by	☒ Ordinary person	☐ Children likely present	
	☒ Instructed person		
	☒ Skilled person		
Supply connection	☒ AC mains	☐ DC mains	
	☐ not mains connected:		
	☐ ES1	☐ ES2	☐ ES3
Supply tolerance	☒ +10%/-10%		
	☐ +20%/-15%		
	☐ + %/ - %		
	☐ None		
Supply connection – type	☒ pluggable equipment type A -		
	☐ non-detachable supply cord		
	☒ appliance coupler		
	☐ direct plug-in		
	☐ pluggable equipment type B -		
	☐ non-detachable supply cord		
	☐ appliance coupler		
	☐ permanent connection		
	☐ mating connector	☐ other: not directly connected to the mains	
Considered current rating of protective device	☒ 16 A;		
	Location:	☒ building	☐ equipment
	☐ N/A		
Equipment mobility	☒ movable	☐ hand-held	☐ transportable
	☐ direct plug-in	☐ stationary	☐ for building-in
	☐ wall/ceiling-mounted	☐ SRME/rack-mounted	
	☐ other:		
Overvoltage category (OVC)	☐ OVC I	☒ OVC II	☐ OVC III
	☐ OVC IV	☐ other:	
Class of equipment	☒ Class I	☐ Class II	☐ Class III
	☐ Not classified	☐	
Special installation location	☒ N/A	☐ restricted access area	
	☐ outdoor location	☐	
Pollution degree (PD)	☐ PD 1	☒ PD 2	☐ PD 3
Manufacturer's specified T _{ma}	40 °C	☐ Outdoor: minimum	°C
IP protection class	☒ IPX0	☐ IP__	
Power systems	☒ TN	☐ TT	☐ IT - V _{L-L}
	☐ not AC mains		
Altitude during operation (m)	☒ 2000 m or less	☐	m
Altitude of test laboratory (m)	☒ 2000 m or less	☐	m
Mass of equipment (kg)	4.94 kg		

Possible test case verdicts: - test case does not apply to the test object....: N/A - test object does meet the requirement: P (Pass) - test object does not meet the requirement....: F (Fail)	
Testing: Date of receipt of test item: N/A Date (s) of performance of tests.....: N/A	
General remarks: "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60335-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided:	☒ Yes ☐ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) Dell (China) Company Limited No. 2388 Jinshang Road, Information Photo-Electronic Park, Xiamen Torch Hi-tech Zone 361000, China	



General product information and other remarks:

This amendment test report, **KES-SA-22T0086-R1** is covering the change of applicant and manufacturer name with trade mark as follow,

From	Hanwha Techwin Co., Ltd.	Hanwha Techwin Co., Ltd.
To	Hanwha Vision Co., Ltd	 Hanwha Vision

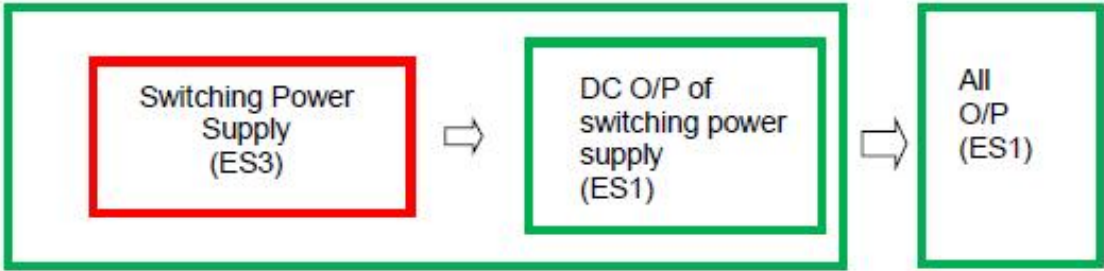
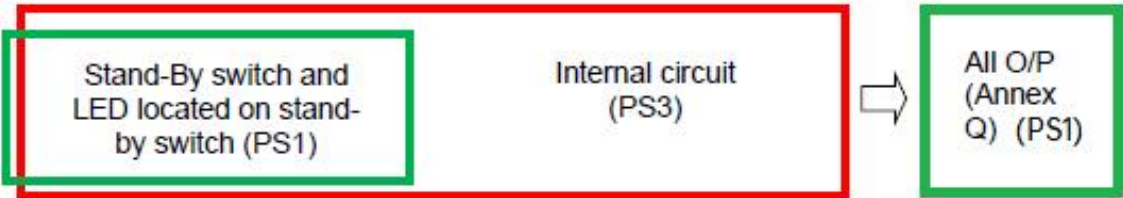
This amendment test report **KES-SA-22T0086-R1** must always be presented together with the main test report **KES-SA-22T0086**.

PROJECT HISTORY:

Report Number:	Modification to the appliances:	Changes/ Modifications in clause(s):
KES-SA-22T0086	Main test report	-
KES-SA-22T0086-R1	Change of applicant and manufacturer name with trade mark	Applicant and manufacturer information, Copy of marking plate, General product information and Project history.

OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS				
Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source (e.g. ES3: Primary circuit)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
ES3: PSU circuits before DC output circuits	Ordinary person	N/A	N/A	Metal enclosure and IEC 62368-1 certified PSU used
ES1: All internal circuits from the PSU output terminal	Ordinary person	N/A	N/A	N/A
ES1: All I/O outers	Ordinary person	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source (e.g. PS2: 100 Watt circuit)	Material part (e.g. Printed board)	Safeguards		
		B	1 st S	2 nd S
PS3: Internal circuit	Entry of foreign objects	The user guide has suitable statements that persons are not expected to insert a foreign object into the equipment.	Complied with Annex P.2	N/A
PS3: Internal circuit	External enclosure	Safeguard are verified acc. to cl. 5.4.1.4, 6.3.1, 6.3.2, 9.3, B.2.6 and B.3.	Safeguards are verified according to clause 6.4.5, 6.4.6, 6.4.7 and 6.4.8	Fire enclosure to be provided.
PS3: Internal circuit	Internal combustible material	Safeguard are verified acc. to cl. 5.4.1.4, 6.3.1, 6.3.2, 9.3, B.2.6 and B.3.	Safeguards are verified according to clause 6.4.5, 6.4.6 and 6.4.7.	Fire enclosure to be provided.
PS3 (PIS)	Internal combustible material	Safeguard are verified acc. to cl. 5.4.1.4, 6.3.1, 6.3.2, 9.3, B.2.6 and B.3.	Safeguards are verified according to clause 6.4.5, 6.4.6 and 6.4.7.	Fire enclosure to be provided.

PS3: Internal circuit	Internal and external wire	Safeguard are verified according to cl. 5.4.1.4, 6.3.1, 6.3.2, 9.3, B.2.6 and B.3.	Cl. 6.5.1 Complied with 60695-11-21	N/A
PS1: Internal circuit	Stand-By switch and LED located on stand-by switch	Safeguard are verified acc. to cl. 5.4.1.4, 6.3.1, 6.3.2, 9.3, B.2.6 and B.3.	N/A	N/A
7	Injury caused by hazardous substances			
Class and Energy Source (e.g. Ozone)	Body Part (e.g., Skilled)	Safeguards		
		B	S	R
RTC Battery	Ordinary person	N/A	N/A	Compliance with Annex M.
8	Mechanically-caused injury			
Class and Energy Source (e.g. MS3: Plastic fan blades)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
MS1: Accessible enclosure (Sharp edges and corners) and equipment mass	Ordinary person	N/A	N/A	N/A
MS1: Plastic blade of DC Fan	Ordinary person	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source (e.g. TS1: Keyboard caps)	Body Part (e.g., Ordinary)	Safeguards		
		B	S	R
TS1: All accessible parts	Ordinary person	N/A	N/A	N/A
TS1: Internal components (Heat-sink for CPU, HDD, SSD, Metal enclosure on SPS (Inner), Air Duct)	Ordinary person	N/A	N/A	N/A
10	Radiation			
Class and Energy Source (e.g. RS1: PMP sound output)	Body Part (e.g., Ordinary)	Safeguards		
		B	S	R
RS1: Diffusive LED	Ordinary person	N/A	N/A	N/A
RS1: ODD	Ordinary person	N/A	N/A	N/A
Supplementary Information:				
"B" – Basic Safeguard; "S" – Supplementary Safeguard; "R" – Reinforced Safeguard				
See next pages of energy source diagram for additional details				

ENERGY SOURCE DIAGRAM					
Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems. Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings					
	Class 1		Class 2		Class 3
 ☒ ES ☐ PS ☐ MS ☐ TS ☐ RS  ☐ ES ☒ PS ☐ MS ☐ TS ☐ RS					

ENERGY SOURCE DIAGRAM					
Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems. Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings					
	Class 1		Class 2		Class 3
Internal components (Heat-sink for CPU, HDD, SSD, Metal Enclosure on SPS (Inner), Air Duct) (TS1) Plastic blade of DC Fan (MS1) Diffusive LED and ODD (RS1) Accessible enclosure (Sharp edge and corners), and equipment mass (MS1) Enclosure (All accessible parts) (TS1) ☐ ES ☐ PS ☒ MS ☒ TS ☒ RS					