



Test Report issued under the responsibility of:



## TEST REPORT

IEC 62368-1

### Audio/video, information and communication technology equipment

### Part 1: Safety requirements

Report Number ..... : C20IA089-M3A1

Date of issue ..... : 2023-04-06

Total number of pages ..... : 22

Name of Testing Laboratory preparing the Report ..... : CTK Co., Ltd.

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

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

#### Test specification:

Standard ..... : IEC 62368-1:2014

Test procedure ..... : CB Scheme

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

TRF template used ..... : IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No. .... : IEC62368\_1D

Test Report Form(s) Originator .. : UL(US)

Master TRF ..... : Dated 2022-04-14

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**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

#### General disclaimer:

The test results presented in this report relate only to the object tested.

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|                                                                                                   |                                                                                                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Test Item description</b> .....                                                                | Network Video Recorder                                                                                                                                                |                                                                                       |
| <b>Trade Mark(s)</b> .....                                                                        |  Hanwha Vision                                                                       |                                                                                       |
| <b>Manufacturer</b> .....                                                                         | Hanwha Vision Co., Ltd<br>6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,<br>Gyeonggi-do, 13488 KOREA                                                               |                                                                                       |
| <b>Model/Type reference</b> .....                                                                 | PRN-6410B4, PRN-3210B4, XRP-4210B4, PRN-6405B4, PRN-6400B4, PRN-3205B4, PRN-3200B4                                                                                    |                                                                                       |
| <b>Ratings</b> .....                                                                              | Input : AC 100-240 V~, 50/60 Hz, 2.9 A for PRN-6410B4, PRN-6405B4, PRN-6400B4, PRN-3210B4, PRN-3205B4, PRN-3200B4<br>or AC 100-240 V~, 50/60 Hz, 2.7 A for XRP-4210B4 |                                                                                       |
| <b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b> |                                                                                                                                                                       |                                                                                       |
| <input checked="" type="checkbox"/> <b>CB Testing Laboratory:</b>                                 | CTK Co., Ltd.                                                                                                                                                         |                                                                                       |
| <b>Testing location/ address</b> .....                                                            | (Ho-dong) 113, Yejik-ro, Cheoin-gu, Yongin-shi<br>Gyeonggi-do KOREA, REPUBLIC OF                                                                                      |                                                                                       |
| <b>Tested by (name, function, signature)</b> .....                                                | SuHwan Kim,<br>Project handler                                                                                                                                        |    |
| <b>Approved by (name, function, signature)</b> .....                                              | JungKyu Yang,<br>Reviewer                                                                                                                                             |  |
| <b>Testing procedure: CTF Stage 1:</b>                                                            |                                                                                                                                                                       |                                                                                       |
| <b>Testing location/ address</b> .....                                                            |                                                                                                                                                                       |                                                                                       |
| <b>Tested by (name, function, signature)</b> .....                                                |                                                                                                                                                                       |                                                                                       |
| <b>Approved by (name, function, signature)</b> .....                                              |                                                                                                                                                                       |                                                                                       |
| <b>Testing procedure: CTF Stage 2:</b>                                                            |                                                                                                                                                                       |                                                                                       |
| <b>Testing location/ address</b> .....                                                            |                                                                                                                                                                       |                                                                                       |
| <b>Tested by (name, function, signature)</b> .....                                                |                                                                                                                                                                       |                                                                                       |
| <b>Witnessed by (name, function, signature)</b> .....                                             |                                                                                                                                                                       |                                                                                       |
| <b>Approved by (name, function, signature)</b> .....                                              |                                                                                                                                                                       |                                                                                       |
| <b>Testing procedure: CTF Stage 3 :</b>                                                           |                                                                                                                                                                       |                                                                                       |
| <b>Testing procedure: CTF Stage 4:</b>                                                            |                                                                                                                                                                       |                                                                                       |
| <b>Testing location/ address</b> .....                                                            |                                                                                                                                                                       |                                                                                       |
| <b>Tested by (name, function, signature)</b> .....                                                |                                                                                                                                                                       |                                                                                       |
| <b>Witnessed by (name, function, signature)</b> .....                                             |                                                                                                                                                                       |                                                                                       |
| <b>Approved by (name, function, signature)</b> .....                                              |                                                                                                                                                                       |                                                                                       |
| <b>Supervised by (name, function, signature)</b> .....                                            |                                                                                                                                                                       |                                                                                       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>List of Attachments (including a total number of pages in each attachment):</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
| <b>Summary of testing:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |
| <b>Tests performed (name of test and test clause):</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Testing location:</b><br>N/A |
| <b>Summary of compliance with National Differences (List of countries addressed):</b><br>Australia, New Zealand, Canada, United States, Denmark, Italy, Japan and European group differences and national differences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |
| <input checked="" type="checkbox"/> <b>The product fulfils the requirements of EN 62368-1:2014+A11:2017, AS/NZS 62368.1:2018, CSA/UL 62368-1:2014, DS/EN 62368-1:2014, CEI EN 62368-1:2016 and J62368-1 (2020).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |
| <b>Use of uncertainty of measurement for decisions on conformity (decision rule) :</b><br><br><input checked="" type="checkbox"/> No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").<br><br><input type="checkbox"/> Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)                                                                                                 |                                 |
| <b>Information on uncertainty of measurement:</b><br>The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.<br>IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.<br>Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing. |                                 |

**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>NETWORK VIDEO RECORDER</b></p> <p>MODEL: PRN-6410B4</p> <p>AC 100-240V~ 50/60Hz 2.9A</p> <p>M/C: PRN-6410B4/VUS Fac. ID: V</p>  <p>DATE S/N: Serial No.</p> <p>MAC ADDRESS 1: XX-XX-XX-XX-XX-01</p> <p>MAC ADDRESS 2: XX-XX-XX-XX-XX-02</p> <p>MAC ADDRESS 3: XX-XX-XX-XX-XX-03</p> <p>CAN ICES-3(A)/NMB-3(A)</p> <p>Engineered in Korea Made in Vietnam</p> <p>Hanwha Vision Co., Ltd.</p>   |         <p>I.T.E.<br/>US LISTED<br/>9T96 E158873</p> <p>PT03-002663T</p>                 |
| <p><b>NETWORK VIDEO RECORDER</b></p> <p>MODEL: PRN-3210B4</p> <p>AC 100-240V~ 50/60Hz 2.9A</p> <p>M/C: PRN-3210B4/VUS Fac. ID: V</p>  <p>DATE S/N: Serial No.</p> <p>MAC ADDRESS 1: XX-XX-XX-XX-XX-01</p> <p>MAC ADDRESS 2: XX-XX-XX-XX-XX-02</p> <p>MAC ADDRESS 3: XX-XX-XX-XX-XX-03</p> <p>CAN ICES-3(A)/NMB-3(A)</p> <p>Engineered in Korea Made in Vietnam</p> <p>Hanwha Vision Co., Ltd.</p> |         <p>I.T.E.<br/>US LISTED<br/>9T96 E158873</p> <p>PT03-002663T</p>  |
| <p><b>NETWORK VIDEO RECORDER</b></p> <p>MODEL: XRP-4210B4</p> <p>AC 100-240V~ 50/60Hz 2.7A</p> <p>M/C: XRP-4210B4/KUS Fac. ID: D</p>  <p>DATE S/N: Serial No.</p> <p>MAC ADDRESS 1: XX-XX-XX-XX-XX-01</p> <p>MAC ADDRESS 2: XX-XX-XX-XX-XX-02</p> <p>MAC ADDRESS 3: XX-XX-XX-XX-XX-03</p> <p>CAN ICES-3(A)/NMB-3(A)</p> <p>MADE IN KOREA</p> <p>Hanwha Vision Co., Ltd.</p>                       |         <p>I.T.E.<br/>US LISTED<br/>9T96 E158873</p> <p>PT03-002663D</p> |



### NETWORK VIDEO RECORDER

MODEL: PRN-6405B4

AC 100-240V~, 50/60Hz 2.9A

M/C: PRN-6405B4/VEU Fac. ID: V



DATE S/N: Serial No.

MAC ADDRESS 1: XX-XX-XX-XX-XX-01

MAC ADDRESS 2: XX-XX-XX-XX-XX-02

MAC ADDRESS 3: XX-XX-XX-XX-XX-03

Engineered in Korea Made in Vietnam

Hanwha Vision Co., Ltd.



### NETWORK VIDEO RECORDER

MODEL: PRN-6400B4

AC 100-240V~, 50/60Hz 2.9A

M/C: PRN-6400B4/VUS Fac. ID: V



DATE S/N: Serial No.

MAC ADDRESS 1: XX-XX-XX-XX-XX-01

MAC ADDRESS 2: XX-XX-XX-XX-XX-02

MAC ADDRESS 3: XX-XX-XX-XX-XX-03

CAN ICES-3(A)/NMB-3(A)

Engineered in Korea Made in Vietnam

Hanwha Vision Co., Ltd.



### NETWORK VIDEO RECORDER

MODEL: PRN-3205B4

AC 100-240V~, 50/60Hz 2.9A

M/C: PRN-3205B4/VEU Fac. ID: V



DATE S/N: Serial No.

MAC ADDRESS 1: XX-XX-XX-XX-XX-01

MAC ADDRESS 2: XX-XX-XX-XX-XX-02

MAC ADDRESS 3: XX-XX-XX-XX-XX-03

Engineered in Korea Made in Vietnam

Hanwha Vision Co., Ltd.



**NETWORK VIDEO RECORDER**

MODEL: PRN-3200B4

AC 100-240V~, 50/60Hz 2.9A

M/C: Model Code Fac. ID: V



DATE S/N: Serial No.

MAC ADDRESS 1: XX-XX-XX-XX-XX-01

MAC ADDRESS 2: XX-XX-XX-XX-XX-02

MAC ADDRESS 3: XX-XX-XX-XX-XX-03

CAN ICES-3(A)/NMB-3(A)

Engineered in Korea Made in Vietnam

Hanwha Vision Co., Ltd.

I.T.E.  
US LISTED  
9T96 E158873

PT03-002663T

| TEST ITEM PARTICULARS:                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification of use by .....                                                                     | <input checked="" type="checkbox"/> Ordinary person<br><input type="checkbox"/> Instructed person<br><input type="checkbox"/> Skilled person<br><input checked="" type="checkbox"/> Children likely to be present                                                                                                                                                                                                                                                                                                                                                          |
| Supply Connection .....                                                                            | <input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> DC Mains<br><input type="checkbox"/> External Circuit - not Mains connected<br>- <input type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3                                                                                                                                                                                                                                                                                                                              |
| Supply % Tolerance .....                                                                           | <input checked="" type="checkbox"/> +10%/-10%<br><input type="checkbox"/> +20%/-15%<br><input type="checkbox"/> + ____ %/ - ____ %<br><input type="checkbox"/> None                                                                                                                                                                                                                                                                                                                                                                                                        |
| Supply Connection – Type .....                                                                     | <input checked="" type="checkbox"/> pluggable equipment type A -<br><input type="checkbox"/> non-detachable supply cord<br><input checked="" type="checkbox"/> appliance coupler<br><input type="checkbox"/> direct plug-in<br><input type="checkbox"/> mating connector<br><input type="checkbox"/> pluggable equipment type B -<br><input type="checkbox"/> non-detachable supply cord<br><input type="checkbox"/> appliance coupler<br><input type="checkbox"/> permanent connection<br><input type="checkbox"/> mating connector <input type="checkbox"/> other: _____ |
| Considered current rating of protective device as part of building or equipment installation ..... | 16 A or 20 A;<br>Installation location: <input checked="" type="checkbox"/> building; <input type="checkbox"/> equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Equipment mobility .....                                                                           | <input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable<br><input checked="" type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in<br><input type="checkbox"/> rack-mounting <input type="checkbox"/> wall-mounted                                                                                                                                                                                                                                              |
| Over voltage category (OVC) .....                                                                  | <input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III<br><input type="checkbox"/> OVC IV <input type="checkbox"/> other: _____                                                                                                                                                                                                                                                                                                                                                                                        |
| Class of equipment .....                                                                           | <input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III<br><input type="checkbox"/> Class II with functional earthing<br><input type="checkbox"/> Not classified                                                                                                                                                                                                                                                                                                                                                  |
| Access location .....                                                                              | <input type="checkbox"/> restricted access area <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pollution degree (PD) .....                                                                        | <input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Manufacturer's specified maximum operating ambient .....                                           | 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| IP protection class .....                                                                          | <input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP ____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Systems .....                                                                                | <input checked="" type="checkbox"/> TN <input type="checkbox"/> TT <input type="checkbox"/> IT - ____ V <sub>L-L</sub> ; <input type="checkbox"/> dc mains<br><input type="checkbox"/> N/A                                                                                                                                                                                                                                                                                                                                                                                 |
| Altitude during operation (m) .....                                                                | <input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> ____ m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Altitude of test laboratory (m) .....                                                              | <input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> ____ m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mass of equipment (kg) .....                                                                       | <input checked="" type="checkbox"/> 23.95 kg (with Hard-disk)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Possible test case verdicts:</b><br>- test case does not apply to the test object .....: N/A<br>- test object does meet the requirement .....: P (Pass)<br>- test object does not meet the requirement .....: F (Fail)                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                            |
| <b>Testing .....</b><br><b>Date of receipt of test item.....:</b> N/A<br><b>Date (s) of performance of tests .....</b> : N/A                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                            |
| <b>General remarks:</b><br>"(See Enclosure #)" refers to additional information appended to the report.<br>"(See appended table)" refers to a table appended to the report.<br>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.<br><input type="checkbox"/> This Test Report Form contains requirements according to IEC/ISO ..... Standard dated ..... and includes Corrigendum dated .....<br>(Note: The above text maybe removed if not applicable) |                                                                                                                                                                                                                                                                                                                                            |
| <b>Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                            |
| 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.....:                                                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> <b>Yes</b><br><input type="checkbox"/> <b>Not applicable</b>                                                                                                                                                                                                                                           |
| <b>When differences exist; they shall be identified in the General product information section.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                            |
| <b>Name and address of factory (ies).....:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1. Hanwha Vision Co., Ltd<br>6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488 KOREA<br>2. D-TECH CO LTD<br>173-25 Saneop-ro Gwonseon-gu, Suwon-si, Gyeonggi-do, 16648, Republic of Korea.<br>3. HANWHA VISION VIETNAM COMPANY LIMITED<br>Lot O-2 Que Vo Industrial Zone extended area Nam Son Ward, Bac Ninh, Vietnam. |

**General product information and other remarks:****Product Description –**

1. This product is Network Video Recorder.
2. Test samples are pre-production without serial number.
3. Maximum Specified ambient temperature is 40 °C.
4. The model PRN-6410B4 was tested and it is the representative of the other model.
5. The model PRN-3210B4 is identical to basic model except for Camera channel and model designation. (Model with 64 channels: PRN-6410B4, with 32 channels: PRN-3210B4)
6. Model XRP-4210B4 is identical to basic model except for rating.

**Amendment 1 Report**

The original test Report Ref. No. C20IA089-M0A0, dated 2020-08-21 was modified on 2021-01-11 to include the following changes and/or additions, which were considered technical modifications

1. Addition of thermal pad.  
(see appended table 4.1.2)
2. Change of photographs.

**Amendment 2 Report**

The Amendment 1 test Report Ref. No. C20IA089-M1A0, dated 2021-01-19 was modified on 2021-04-12 to include the following changes and/or additions, which were considered technical modifications

1. Addition of derivation models PRN-6405B4, PRN-6400B4, PRN-3205B4, PRN-3200B4.
2. Addition of Copy of marking plate for derivative models PRN-6405B4, PRN-6400B4, PRN-3205B4, PRN-3200B4.
3. Change of Model difference.
4. Change of national difference for recently update form. (Canada, United States, Japan and European group difference)
5. Change of address of factories.

**Amendment 3 Report:**

The Amendment 2 test Report Ref. No. C20IA089-M2A0, dated 2021-04-12 was modified on 2023-03-27 to include the following changes and/or additions, which were considered technical amendment:

1. Change of 'Summary of compliance with National Differences' information.

| Before                                                                                   | After                                                                                                                                                                    |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The product fulfils the requirements of IEC 62368-1:2014 and/or EN 62368-1:2014+A11:2017 | The product fulfils the requirements of EN 62368-1:2014+A11:2017, AS/NZS 62368.1:2018, CSA/UL 62368-1:2014, DS/EN 62368-1:2014, CEI EN 62368-1:2016 and J62368-1 (2020). |

2. Change of latest national difference (AUSTRALIA / NEW ZEALAND / DENMARK / ITALY).
3. Change of trademark due to change of manufacturer's name.
4. Change of 'Copy of marking plate'.
5. Change of applicant's name. From Hanwha Techwin Co., Ltd. to Hanwha Vision Co., Ltd.
6. Change of manufacturer's name. From Hanwha Techwin Co., Ltd. to Hanwha Vision Co., Ltd.
7. Change of factories' name.  
From 'Hanwha Techwin Co., Ltd.' and 'Hanwha Techwin Security Vietnam Co Ltd' to 'Hanwha Vision

Co., Ltd.' and 'HANWHA VISION VIETNAM COMPANY LIMITED'.

8. Change of factory address.

factory name: D-TECH CO LTD. From 1732-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, 16648, Korea (Suwon Industrial Complex) to 173-25 Saneop-ro Gwonseon-gu, Suwon-si, Gyeonggi-do, 16648, Republic of Korea.

**Correction 1 Report:**

The Amendment 3 test Report Ref. No. C20IA089-M3A0, dated 2023-03-27 was modified on 2023-04-06 to include the following changes and/or additions, which were considered correction:

1. Correction of Trademark due to typo error.

**Model Differences –**

|                  | Model name | Camera channel | Rating                         | Software                |
|------------------|------------|----------------|--------------------------------|-------------------------|
| Basic model      | PRN-6410B4 | 64 channels    | AC 100-240 V~, 50/60 Hz, 2.9 A |                         |
| Derivation model | PRN-6405B4 | 64 channels    | AC 100-240 V~, 50/60 Hz, 2.9 A | except FR, LPR function |
|                  | PRN-6400B4 | 64 channels    | AC 100-240 V~, 50/60 Hz, 2.9 A | except FR function      |
|                  | PRN-3210B4 | 32 channels    | AC 100-240 V~, 50/60 Hz, 2.9 A |                         |
|                  | PRN-3205B4 | 32 channels    | AC 100-240 V~, 50/60 Hz, 2.9 A | except FR, LPR function |
|                  | PRN-3200B4 | 32 channels    | AC 100-240 V~, 50/60 Hz, 2.9 A | except FR function      |
|                  | XRP-4210B4 | 64 channels    | AC 100-240 V~, 50/60 Hz, 2.7 A |                         |

**Additional application considerations – (Considerations used to test a component or sub-assembly) –**

Note1) Evaluation was conducted based on the ordinary person.

- Max. Normal Load: HDD16 EA, Front USB port: 0.5 A each (2 EA), Rear USB port: 0.9 A each (2 EA)

| <b>ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:</b>                                                                                                                                                                                                                                                                                                                 |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| (Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)<br>(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.) |                                   |
| <b>Electrically-caused injury (Clause 5):</b><br>(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)<br>Example: +5 V dc input                                                                                                                                                                           |                                   |
| ES1                                                                                                                                                                                                                                                                                                                                                                           |                                   |
| Source of electrical energy                                                                                                                                                                                                                                                                                                                                                   | Corresponding classification (ES) |
| Primary circuit (Input)                                                                                                                                                                                                                                                                                                                                                       | ES3                               |
| Internal Secondary circuit                                                                                                                                                                                                                                                                                                                                                    | ES1                               |
| All output ports                                                                                                                                                                                                                                                                                                                                                              | ES1                               |
| <b>Electrically-caused fire (Clause 6):</b><br>(Note: List sub-assembly or circuit designation and corresponding energy source classification)<br>Example: Battery pack (maximum 85 watts):                                                                                                                                                                                   |                                   |
| PS2                                                                                                                                                                                                                                                                                                                                                                           |                                   |
| Source of power or PIS                                                                                                                                                                                                                                                                                                                                                        | Corresponding classification (PS) |
| Primary circuit (Printed wiring board)                                                                                                                                                                                                                                                                                                                                        | PS3                               |
| Internal secondary circuit (Printed wiring board)                                                                                                                                                                                                                                                                                                                             | PS3                               |
| All output ports                                                                                                                                                                                                                                                                                                                                                              | PS1                               |
| <b>Injury caused by hazardous substances (Clause 7)</b><br>(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)<br>Example: Liquid in filled component                                                                                                                               |                                   |
| Glycol                                                                                                                                                                                                                                                                                                                                                                        |                                   |
| Source of hazardous substances                                                                                                                                                                                                                                                                                                                                                | Corresponding chemical            |
| Lithium Battery (BAT1)                                                                                                                                                                                                                                                                                                                                                        | Lithium/manganese dioxide (Coin)  |
| <b>Mechanically-caused injury (Clause 8)</b><br>(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.)<br>Example: Wall mount unit                                                                                                                                                                                |                                   |
| MS2                                                                                                                                                                                                                                                                                                                                                                           |                                   |
| Source of kinetic/mechanical energy                                                                                                                                                                                                                                                                                                                                           | Corresponding classification (MS) |
| Equipment Mass                                                                                                                                                                                                                                                                                                                                                                | MS2                               |
| Sharp edge and corners                                                                                                                                                                                                                                                                                                                                                        | MS1                               |
| DC Fan (Main board)                                                                                                                                                                                                                                                                                                                                                           | MS1                               |
| DC Fan (near HDD)                                                                                                                                                                                                                                                                                                                                                             | MS1                               |
| DC Fan (SMPS)                                                                                                                                                                                                                                                                                                                                                                 | MS3                               |
| <b>Thermal burn injury (Clause 9)</b><br>(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)<br>Example: Hand-held scanner – thermoplastic enclosure                                                                                                 |                                   |
| TS1                                                                                                                                                                                                                                                                                                                                                                           |                                   |
| Source of thermal energy                                                                                                                                                                                                                                                                                                                                                      | Corresponding classification (TS) |
| External enclosure                                                                                                                                                                                                                                                                                                                                                            | TS1                               |

**ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:****Radiation (Clause 10)**

(Note: List the types of radiation present in the product and the corresponding energy source classification.)

Example: DVD – Class 1 Laser Product

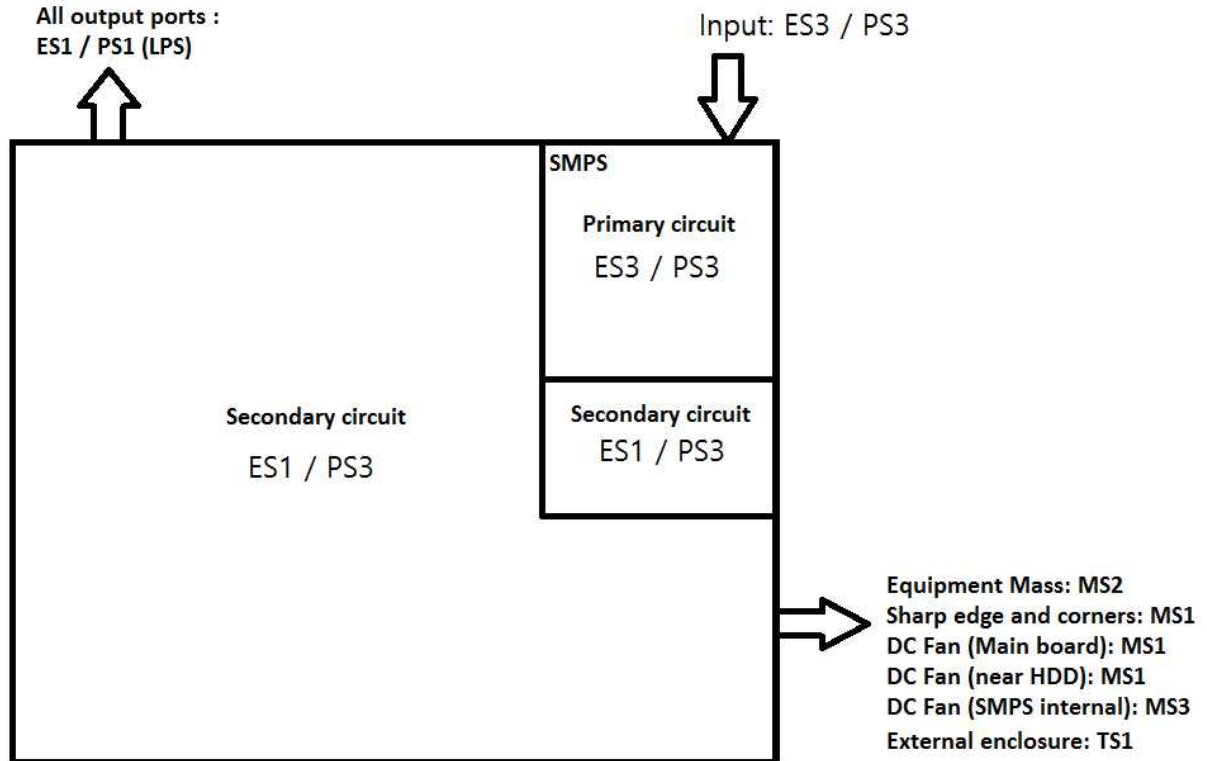
RS1

| Type of radiation | Corresponding classification (RS) |
|-------------------|-----------------------------------|
| N/A               | N/A                               |

**ENERGY SOURCE DIAGRAM**

Indicate which energy sources are included in the energy source diagram. Insert diagram below

☒ ES    ☒ PS    ☒ MS    ☒ TS    ☐ RS



| OVERVIEW OF EMPLOYED SAFEGUARDS                      |                                                |             |               |                                                  |
|------------------------------------------------------|------------------------------------------------|-------------|---------------|--------------------------------------------------|
| Clause                                               | Possible Hazard                                |             |               |                                                  |
| 5.1                                                  | Electrically-caused injury                     |             |               |                                                  |
| Body Part<br>(e.g. Ordinary)                         | Energy Source<br>(ES3: Primary Filter circuit) | Safeguards  |               |                                                  |
|                                                      |                                                | Basic       | Supplementary | Reinforced<br>(Enclosure)                        |
| Ordinary person                                      | ES3: Primary circuit<br>(Input)                | N/A         | N/A           | Reinforced<br>insulation<br>(Metal<br>enclosure) |
| Ordinary person                                      | ES1: Internal Secondary<br>circuit             | N/A         | N/A           | N/A                                              |
| Ordinary person                                      | ES1: All output ports                          | N/A         | N/A           | N/A                                              |
| 6.1                                                  | Electrically-caused fire                       |             |               |                                                  |
| Material part<br>(e.g. mouse enclosure)              | Energy Source<br>(PS2: 100 Watt circuit)       | Safeguards  |               |                                                  |
|                                                      |                                                | Basic       | Supplementary | Reinforced                                       |
| Primary circuit<br>(Printed wiring board)            | PS3                                            | No ignition | V-1           | Metal<br>Enclosure                               |
| Internal secondary circuit<br>(Printed wiring board) | PS3                                            | No ignition | V-1           | Metal<br>Enclosure                               |
| All output port                                      | PS1                                            | N/A         | N/A           | N/A                                              |
| 7.1                                                  | Injury caused by hazardous substances          |             |               |                                                  |
| Body Part<br>(e.g., skilled)                         | Energy Source<br>(hazardous material)          | Safeguards  |               |                                                  |
|                                                      |                                                | Basic       | Supplementary | Reinforced                                       |
| Ordinary                                             | Lithium Battery (BAT1)                         | N/A         | N/A           | See<br>annex M                                   |
| 8.1                                                  | Mechanically-caused injury                     |             |               |                                                  |
| Body Part<br>(e.g. Ordinary)                         | Energy Source<br>(MS3:High Pressure<br>Lamp)   | Safeguards  |               |                                                  |
|                                                      |                                                | Basic       | Supplementary | Reinforced<br>(Enclosure)                        |
| Ordinary                                             | MS2: Mass                                      | N/A         | N/A           | See 8.6                                          |
| Ordinary                                             | MS1: Sharp edge and<br>corners                 | N/A         | N/A           | N/A                                              |
| Ordinary                                             | MS1: DC Fan(Main board)                        | N/A         | N/A           | N/A                                              |
| Ordinary                                             | MS1: DC Fan (near HDD)                         | N/A         | N/A           | N/A                                              |
| Ordinary                                             | MS3: DC Fan (SMPS)                             | N/A         | N/A           | Instructiona<br>l safeguard                      |
| 9.1                                                  | Thermal Burn                                   |             |               |                                                  |
| Body Part<br>(e.g., Ordinary)                        | Energy Source<br>(TS2)                         | Safeguards  |               |                                                  |
|                                                      |                                                | Basic       | Supplementary | Reinforced                                       |
| Ordinary                                             | TS1                                            | N/A         | N/A           | N/A                                              |
| 10.1                                                 | Radiation                                      |             |               |                                                  |
| Body Part                                            | Energy Source                                  | Safeguards  |               |                                                  |

| (e.g., Ordinary)                                                                                                                         | (Output from audio port) | Basic | Supplementary | Reinforced |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|---------------|------------|
| N/A                                                                                                                                      | N/A                      | N/A   | N/A           | N/A        |
| Supplementary Information:                                                                                                               |                          |       |               |            |
| (1) See attached energy source diagram for additional details.<br>(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault |                          |       |               |            |

| IEC 62368-1 |                                                       |                             |         |
|-------------|-------------------------------------------------------|-----------------------------|---------|
| Clause      | Requirement + Test                                    | Result - Remark             | Verdict |
| <b>4</b>    | <b>GENERAL REQUIREMENTS</b>                           |                             | P       |
| 4.1.1       | Acceptance of materials, components and subassemblies | (See appended table 4.1.2). | P       |
| 4.1.2       | Use of components                                     | (See appended table 4.1.2). | P       |

| IEC 62368-1                 |                                                  |                                               |                                                                                                                                                                                                                          |                                       |                                                 |
|-----------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------|
| Clause                      | Requirement + Test                               |                                               | Result - Remark                                                                                                                                                                                                          |                                       | Verdict                                         |
| 4.1.2                       | TABLE: List of critical components               |                                               |                                                                                                                                                                                                                          |                                       | P                                               |
| Object / part No.           | Manufacturer/<br>trademark                       | Type / model                                  | Technical data                                                                                                                                                                                                           | Standard                              | Mark(s) of<br>conformity <sup>1</sup>           |
| <b>-Description:</b>        |                                                  |                                               |                                                                                                                                                                                                                          |                                       |                                                 |
| Power Supply                | DELTA<br>ELECTRONICS<br>INC                      | DPS-500AB-33<br>XX (X = 0-9, A-Z<br>or blank) | Input:<br>100-240 V~,<br>47-63 Hz, 8.0 A;<br><br>Output:<br>+5Vdc, 20A,<br>+3.3Vdc, 24 A,<br>+12Vdc1, 25A,<br>+12Vdc2, 25A,<br>-12Vdc, 0.5A,<br>-5Vdc, 0.3A,<br>-5Vdcsb, 3A,<br><br>Total power for<br>all outputs: 500W | IEC/EN 62368-<br>1:2014<br>UL 60950-1 | TÜV Rheinland<br>(JPTUV-081831)<br>UL (E131881) |
| Power cord set<br>(US type) | LONGWELL                                         | LP-30B +SVT<br>18AWG X<br>3C+LS-13            | Detachable, Min.<br>1.5 m, Max. 4.5<br>m long, rated 125<br>V, 10 A, 18/3<br>AWG, 60 °C, SVT<br>type flexible cord.<br>One end with<br>NEMA 5-15P<br>other end with<br>appliance<br>coupler.                             | UL 817<br>UL 60320-1<br>UL62          | UL (E55349)                                     |
| (Alternate)                 | KOREA KDK CO<br>LTD                              | KKP-30 + SVT<br>3/18AWG + KKS-<br>16A         | Detachable, Min.<br>1.5 m, Max. 4.5<br>m long, rated 125<br>V, 7 A, 18/3<br>AWG, 105 °C,<br>SVT type flexible<br>cord. One end<br>with NEMA 1-15<br>other end with<br>appliance<br>coupler.                              | UL 817<br>UL 60320-1<br>UL62          | UL (E58075)                                     |
| (Alternate)                 | CHANGZHOU<br>HONG CHANG<br>ELECTRONICS<br>CO LTD | DTII-3P-15+UL<br>SVT 18AWG/3C<br>+DTII-3P-04  | Detachable, Min.<br>1.5 m, Max. 4.5<br>m long, rated 125<br>V, 10 A, 18/3<br>AWG, 105 °C,<br>SVT type flexible<br>cord. One end<br>with NEMA 5-15P<br>other end with<br>appliance<br>coupler.                            | UL 817<br>UL 60320-1<br>UL62          | UL (E205766)                                    |

| IEC 62368-1                                       |                                            |                                                            |                                                                                                                                                                |                                                                               |                      |
|---------------------------------------------------|--------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------|
| Clause                                            | Requirement + Test                         |                                                            | Result - Remark                                                                                                                                                |                                                                               | Verdict              |
| (Alternate)                                       | WEIHAI HONG LIN ELECTRONIC CO LTD          | HL-002S + SVT 18AWG X 3C + HL-004                          | Detachable, Min 1.5 m, Max. 4.5 m long, rated 125 V, 10 A, 18/3 AWG, 105 °C, SVT type flexible cord. One end with NEMA 5-15P other end with appliance coupler. | UL 817<br>UL 60320-1<br>UL62                                                  | UL (E254927)         |
| Power cord set (KR type)                          | Longwell Company                           | LP-34AN, H05VV-F, LS-13G                                   | 16 A, 250 V~, 3 x 0.75 mm <sup>2</sup> , 10 A, 250 V~                                                                                                          | IEC 60884-1:2002/AMD1:2006<br>IEC 60227-5:2011<br>IEC 60320-1:2001/AMD1:2007  | KC (SU01001-8001G)   |
| (Alternate)                                       | Changzhou Hong Chang Electronics Co. Ltd.  | DTIII-2P-05, H05VVH2-F, DTII-3P-04                         | 16 A, 250 V~, 3 x 0.75 mm <sup>2</sup> , 10 A, 250 V~                                                                                                          | IEC 60884-1:2002/AMD1:2006<br>IEC 60227-5:2011<br>IEC 60320-1:2001/AMD1:2007  | KC (HU01021-16006A)  |
| (Alternate)                                       | KOREA KDK Co., Ltd.                        | KKP-4819KD, H05VV-F, KKS-16A                               | 10 A, 250 V~, 3G x 0.75 mm <sup>2</sup> , 10 A, 250 V~                                                                                                         | IEC 60884-1:2002/AMD1:2006<br>IEC 60227-5:2011<br>IEC 60320-1:2001/AMD1:2007  | KC (SJ01003-10001C)  |
| Power cord set (Plug, Cable, Connector) (EU type) | Longwell Company                           | LP-34AN, H05VV-F 3 x 0.75 mm <sup>2</sup> , LS-13G         | 16 A, 250 V~, 3 x 0.75 mm <sup>2</sup> , 10 A, 250 V~                                                                                                          | IEC 60884-1:2002/AMD1:2006/AMD2:2013<br>EN 50525-2-11:2012<br>EN 60320-1:2015 | DEKRA<br>VDE<br>ENEC |
| (Alternate)                                       | Changzhou Hong Chang Electronics Co., Ltd. | DTIII-2P-05, H05VV-F 3 x 0.75 mm <sup>2</sup> , DTII-3P-04 | 16 A, 250 V~, 3 x 0.75 mm <sup>2</sup> , 10 A, 250 V~                                                                                                          | VDE 0620-2-1/AMD1:2017<br>EN 50525-2-11:2012<br>IEC/EN 60320-1:2015           | VDE                  |

| IEC 62368-1                                                           |                                          |                                                                |                                                                                   |                                                                                      |                                               |
|-----------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------|
| Clause                                                                | Requirement + Test                       |                                                                | Result - Remark                                                                   |                                                                                      | Verdict                                       |
| (Alternate)                                                           | Weihai Honglin Electronic Co., Ltd.      | HL-014 ,<br>H05VV-F 3 x<br>0.75 mm <sup>2</sup> ,<br>HL-026    | 16 A, 250 V~,<br>3 x 0.75 mm <sup>2</sup> ,<br>10 A, 250 V~                       | VDE 0620-2-<br>1:2013<br>EN 50525-2-<br>11:2012<br>IEC/EN 60320-<br>1:2015           | VDE                                           |
| (Alternate)                                                           | KOREA KDK Co., Ltd.                      | KKP-4819D,<br>H05VV-F 3 x<br>0.75 mm <sup>2</sup> ,<br>KKS-16A | 16 A, 250 V~,<br>3 x 0.75 mm <sup>2</sup> ,<br>10 A, 250 V~                       | VDE 0620-2-<br>1/AMD1:2017<br>EN 50525-2-<br>11:2012<br>IEC/EN 60320-<br>1/AMD1:2007 | VDE<br>SEMKO                                  |
| Case-Top (Metal)                                                      | Interchangeable                          | Interchangeable                                                | SGCC,<br>Min. 1.0 mm<br>thickness.                                                | IEC/EN 62368-<br>1:2014<br>UL 62368-1                                                | Tested in<br>equipment                        |
| Case-Bottom (Metal)                                                   | Interchangeable                          | Interchangeable                                                | SGCC,<br>Min. 1.2 mm<br>thickness.                                                | IEC/EN 62368-<br>1:2014<br>UL 62368-1                                                | Tested in<br>equipment                        |
| Case-Rear (Metal)                                                     | Interchangeable                          | Interchangeable                                                | SGCC,<br>Min. 1.0 mm<br>thickness.                                                | IEC/EN 62368-<br>1:2014<br>UL 62368-1                                                | Tested in<br>equipment                        |
| Bracket (Metal)                                                       | Interchangeable                          | Interchangeable                                                | SGCC,<br>Min. 1.0 mm<br>thickness.                                                | IEC/EN 62368-<br>1:2014<br>UL 62368-1                                                | Tested in<br>equipment                        |
| Hard-disk frame (Plastic)                                             | LOTTE<br>ADVANCED<br>MATERIALS CO<br>LTD | NH-1035(+)                                                     | Min. 1.5 mm<br>thickness, rated<br>Min. V-0, 80 °C                                | IEC/EN 62368-<br>1:2014<br>UL746,<br>UL94                                            | Tested in<br>equipment<br>UL (E115797)        |
| Internal Plastic Part Materials                                       | Interchangeable                          | Interchangeable                                                | Rated Min. V-2                                                                    | IEC/EN 62368-<br>1:2014<br>UL94, UL746C                                              | Tested in<br>equipment<br>UL                  |
| USB Protection IC<br>(USB 2.0 : U59,<br>U60 / USB 3.0 :<br>U 50, U53) | Texas<br>Instruments Inc                 | TPS2062                                                        | Rated 2.7–5.5<br>Vdc, 1 A                                                         | IEC 60950-<br>1:2005/AMD2:20<br>13<br>UL 2367                                        | UL (US-27819-<br>UL)<br><br>UL (E169910)      |
| (Alternate)                                                           | DIODES INC                               | AP2162SG-13                                                    | Rated 2.7–5.5<br>Vdc, 1 A                                                         | IEC 60950-<br>1:2005/AMD2:20<br>13<br>UL 2367                                        | NEMKO<br>(NO83682)<br><br>UL (E322375)        |
| DC Fan<br>_Main board                                                 | FOXCONN<br>TECHNOLOGY<br>CO LTD          | PVA080G12Q-<br>(X)yy-yy<br>(PVA080G12Q)                        | Rated voltage:<br>DC 12 V, Rated<br>current: 0.45 A,<br>speed:<br>4500±8 %<br>RPM | IEC/EN 62368-<br>1:2014<br>UL 507                                                    | TÜV Rheinland<br>(R 50168494)<br>UL (E231557) |

| IEC 62368-1                                              |                                                      |                                                                                               |                                                                                                                                      |                                              |                                        |
|----------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------|
| Clause                                                   | Requirement + Test                                   |                                                                                               | Result - Remark                                                                                                                      |                                              | Verdict                                |
| DC Fan<br>_near HDD_2EA                                  | DONGGUAN<br>PROTECHNIC<br>ELECTRIC CO<br>LTD         | MG(a)12012(j)(e)<br>-(f)25<br>(MGT12012XR-<br>W25)                                            | Rated voltage:<br>DC 12 V, Rated<br>current: 0.52 A,<br>speed:<br>2700±10 % RPM                                                      | IEC 60950-<br>1:2005/AMD2:20<br>13<br>UL 507 | TÜV SÜD<br>(31023)<br><br>UL (E187236) |
| (Alternate)                                              | NMB<br>Technologies<br>Corporation                   | 11925S(i)-12P-<br>(d)(e)-XX<br>11925S(i)-12P-<br>(d)(e)D-(f)<br>(Type:<br>11925SA12PAU<br>DY) | Rated voltage:<br>DC 12 V, Rated<br>current: 0.50 A,<br>speed:<br>2800 RPM                                                           | IEC/EN 62368-<br>1:2014<br>UL 507            | VDE (134439)<br><br>UL (E89936)        |
| Lithium Battery<br>(BAT1)                                | WUHAN LIXING<br>(TORCH)<br>POWER<br>SOURCE CO<br>LTD | CR2032                                                                                        | Lithium/mangane<br>se dioxide (Coin),<br>Max Abnormal<br>Charging Current:<br>10 mA, Max<br>Abnormal<br>Charging<br>Voltage: 5 Vdc   | IEC/EN 62368-<br>1:2014<br>UL 1642           | Tested in<br>equipment<br>UL (MH26236) |
| (Alternate)                                              | SHENZHEN<br>GAONENGDA<br>BATTERY CO<br>LTD           | CR2032                                                                                        | Lithium/mangane<br>se dioxide (Coin),<br>Max Abnormal<br>Charging Current:<br>10 mA, Max<br>Abnormal<br>Charging<br>Voltage: 3.5 Vdc | IEC/EN 62368-<br>1:2014<br>UL 1642           | Tested in<br>equipment<br>UL (MH30114) |
| Internal Wiring<br>(Secondary)                           | Interchangeable                                      | Interchangeable                                                                               | FEP, PTFE,<br>PVC, TFE,<br>neoprene,<br>polyimide or<br>marked VW-1;<br>Min. 30 V, 80 °C                                             | IEC/EN 62368-<br>1:2014<br>UL 758            | Tested in<br>equipment<br>UL           |
| Cable                                                    | Interchangeable                                      | Interchangeable                                                                               | FEP, PTFE,<br>PVC, TFE,<br>neoprene,<br>polyimide or<br>marked VW-1;<br>Min. 30 V, 80 °C                                             | IEC/EN 62368-<br>1:2014<br>UL 758            | Tested in<br>equipment<br>UL           |
| Connectors and<br>Receptacles<br>(Secondary<br>circuits) | Interchangeable                                      | Interchangeable                                                                               | -                                                                                                                                    | IEC/EN 62368-<br>1:2014<br>UL 1977           | Tested in<br>equipment<br>UL           |
| (Alternate)                                              | Interchangeable                                      | Interchangeable                                                                               | Copper alloy pins<br>housed in bodies<br>of plastic rated<br>Min. V-2                                                                | IEC/EN 62368-<br>1:2014<br>UL 746            | Tested in<br>equipment<br>UL           |
| PWB                                                      | HANNSTAR<br>BOARD CORP                               | MV-4                                                                                          | Min. V-0, 130 °C                                                                                                                     | IEC/EN 62368-<br>1:2014<br>UL 796            | Tested in<br>equipment<br>UL (E89382)  |

| IEC 62368-1                                                                                                          |                    |                 |                  |                                        |                                     |
|----------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|------------------|----------------------------------------|-------------------------------------|
| Clause                                                                                                               | Requirement + Test |                 |                  | Result - Remark                        | Verdict                             |
| (Alternate)                                                                                                          | Interchangeable    | Interchangeable | Min. V-0, 130 °C | IEC/EN 62368-1:2014<br>UL 796          | Tested in equipment<br>UL           |
| Thermal pad for Main board                                                                                           | KOMOTECH CO LTD    | KGP-1(a)        | Min. V-0, 150 °C | IEC/EN 62368-1:2014<br>UL94,<br>UL746C | Tested in equipment<br>UL (E245303) |
| Supplementary information:<br><sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039. |                    |                 |                  |                                        |                                     |

**List of test equipment used:**

A completed list of used test equipment shall be provided in the Test Reports when a Customer's Testing Facility according to CTF stage 1 or CTF stage 2 procedure has been used.

Note: This page may be removed when CTF stage 1 or CTF stage 2 are not used. See also clause 4.8 in OD 2020 for more details.

| Clause | Measurement / testing | Testing / measuring equipment / material used, (Equipment ID) | Range used | Last Calibration date | Calibration due date |
|--------|-----------------------|---------------------------------------------------------------|------------|-----------------------|----------------------|
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |
|        |                       |                                                               |            |                       |                      |