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Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

Should you have any questions, after reviewing the material, or need to report any inaccuracies, please reach out to your UL representative or find UL contact details for your local Customer Service Department at <https://www.ul.com/about/locations>.

Please find attached the related material on Project 4789953942

For your convenience, the below describes the related updates:

For revised/new documentation, please reference vol X13 SEC A6058 RSEC in the page headings.

|                                          |
|------------------------------------------|
| E158873-volX13-Index                     |
| E158873-20210408-CertificateofCompliance |
| E158873-A6058-DescriptionUL              |
| Figure-16-Total                          |
| E158873-A6058-TestRecordUL               |

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|         |       |        |      |           |
|---------|-------|--------|------|-----------|
| File    |       | Volume | Page | Date:     |
| E158873 | Index | X13    | 1    | 06-Jun-21 |

## Index

| Product Type           | Model/Type Reference                                                                                                                                     | Report Reference # | Status |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|
| NETWORK VIDEO RECORDER | XRN-6410B4, XRN-3210B4                                                                                                                                   | E158873-A6027-UL   |        |
| NETWORK VIDEO RECORDER | PRN-6410B4, PRN-3210B4, XRP-4210B4, PRN-6400B4, PRN-3200B4                                                                                               | E158873-A6028-UL   |        |
| NETWORK VIDEO RECORDER | XRN-6410DB4                                                                                                                                              | E158873-A6029-UL   |        |
| NETWORK VIDEO RECORDER | PRN-6410DB4, XRP-4310DB4, PRN-6400DB4                                                                                                                    | E158873-A6030-UL   |        |
| NETWORK CAMERA         | PNM-9002VQ                                                                                                                                               | E158873-A6031-UL   |        |
| NETWORK CAMERA         | XNF-9010RV, XNF-9010RVM, XNF-9010RS                                                                                                                      | E158873-A6032-UL   |        |
| NETWORK CAMERA         | PNM-9000QB                                                                                                                                               | E158873-A6033-UL   |        |
| NETWORK CAMERA         | XNP-9300RW, XNP-8300RW, XNP-6400RW                                                                                                                       | E158873-A6034-UL   |        |
| NETWORK CAMERA         | TNV-8010C                                                                                                                                                | E158873-A6035-UL   |        |
| OUTDOOR NETWORK CAMERA | PNM-8082VT                                                                                                                                               | E158873-A6036-UL   |        |
| THERMAL CAMERA         | TNM-3620TDY                                                                                                                                              | E158873-A6037-UL   |        |
| DIGITAL VIDEO RECORDER | HRX-1621* (* is Blank or N or P : P=PAL, N=NTSC)                                                                                                         | E158873-A6038-UL   |        |
| NETWORK CAMERA         | PNM-9022V                                                                                                                                                | E158873-A6039-UL   |        |
| NETWORK CAMERA         | PNM-9322VQP                                                                                                                                              | E158873-A6040-UL   |        |
| DIGITAL VIDEO RECORDER | HRX-821* (* is Blank or N or P : P=PAL, N=NTSC)                                                                                                          | E158873-A6041-UL   |        |
| NETWORK I/O BOX        | SPM-4210                                                                                                                                                 | E158873-A6042-UL   |        |
| NETWORK VIDEO RECORDER | XRN-2011*, XRN-2010*, XRN-3010*, XRN-1610*, XRN-2010P/DM, XRN-3010P/DM, XRN-3010A, XRN-2011A, XRN-2010A, XRN-1610A (* is blank or N or P: N=NTSC, P=PAL) | E158873-A6043-UL   |        |
| PUBLIC VIEW MONITOR    | SMT-2730PV                                                                                                                                               | E158873-A6044-UL   |        |
| PUBLIC VIEW MONITOR    | SMT-3230PV                                                                                                                                               | E158873-A6045-UL   |        |
| CAMERA HOUSING         | SHB-9000H                                                                                                                                                | E158873-A6046-UL   |        |
| PUBLIC VIEW MONITOR    | SMT-1030PV                                                                                                                                               | E158873-A6047-UL   |        |
| NETWORK CAMERA         | XNP-9250R, XNP-8250R, XNP-6400R                                                                                                                          | E158873-A6049-UL   |        |
| NETWORK CAMERA         | XNP-9250, XNP-8250, XNP-6400                                                                                                                             | E158873-A6050-UL   |        |
| NETWORK CAMERA         | ONO-9081R                                                                                                                                                | E158873-A6051-UL   |        |
| NETWORK CAMERA         | ONV-9081R                                                                                                                                                | E158873-A6052-UL   |        |
| NETWORK VIDEO RECORDER | XRN-1620B2                                                                                                                                               | E158873-A6053-UL   |        |

| File    |       | Volume | Page | Date:     |
|---------|-------|--------|------|-----------|
| E158873 | Index | X13    | 2    | 06-Jun-21 |

|                        |                                                                                                                                                                                                         |                  |  |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|
| NETWORK VIDEO RECORDER | XRN-1620SB1                                                                                                                                                                                             | E158873-A6054-UL |  |
| NETWORK VIDEO RECORDER | XRN-820S                                                                                                                                                                                                | E158873-A6055-UL |  |
| NETWORK CAMERA         | SCO-6020                                                                                                                                                                                                | E158873-A6056-UL |  |
| NETWORK CAMERA         | TNF-9010                                                                                                                                                                                                | E158873-A6057-UL |  |
| NETWORK VIDEO RECORDER | PRN-3210B2, PRN-1610B2, XRN-6410RB2, XRN-3210RB2, XRN-6410B2, XRN-3210B2, PRN-3200B2, PRN-3205B2, PRN-1600B2, PRN-1605B2                                                                                | E158873-A6058-UL |  |
| NETWORK CAMERA         | PNB-A6001                                                                                                                                                                                               | E158873-A6059-UL |  |
| NETWORK CAMERA         | PND-A6081RV, PND-A6081RF                                                                                                                                                                                | E158873-A6060-UL |  |
| NETWORK CAMERA         | PNO-A6081R                                                                                                                                                                                              | E158873-A6061-UL |  |
| LENS MODULE            | SLA-T2480*, SLA-T2480V*, SLA-T4680*, SLA-T4680V*, SLA-T4680D, SLA-T4680DW, SLA-T4680DS, SLA-T2415, SLA-T2815B, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA (* is blank or N or P: N = NTSC, P=PAL) | E158873-A6062-UL |  |
| NETWORK CAMERA         | PNV-A6081R                                                                                                                                                                                              | E158873-A6063-UL |  |
| NETWORK CAMERA         | XNB-6001*, XNB-H6240A, XNB-H6242A                                                                                                                                                                       | E158873-A6064-UL |  |
| NETWORK THERMAL CAMERA | TNO-3030T, TNO-3020T, TNO-3010T, TNO-3040T, TNO-3050T                                                                                                                                                   | E158873-A6067-UL |  |
| NETWORK CAMERA         | QNP-6320, QNP-6250                                                                                                                                                                                      | E158873-A6068-UL |  |
| NETWORK CAMERA         | QNP-6320H, QNP-6250H                                                                                                                                                                                    | E158873-A6069-UL |  |

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2019843-3  
**Report Reference** E158873- A6058-UL  
**Date** 8-Jun-2021

**Issued to:** Hanwha Techwin Co Ltd  
6, Pangyo-ro 319beon-gil, Bundang-gu Seongnam-si ,  
Gyeonggi-do,  
Republic of Korea 13488

**This is to certify that**  
**representative samples of** AZOT - Audio/Video, Information and Communication  
Technology Equipment  
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 62368-1, 2nd Ed., Issue Date: 2014-12-01

**Additional Information:** See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

*B. Mahlen*

Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2019843-3  
Report Reference E158873- A6058-UL  
Date 8-Jun-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

| Model       | Category Description   |
|-------------|------------------------|
| PRN-1600B2  | NETWORK VIDEO RECORDER |
| PRN-1605B2  | NETWORK VIDEO RECORDER |
| PRN-1610B2  | NETWORK VIDEO RECORDER |
| PRN-3200B2  | NETWORK VIDEO RECORDER |
| PRN-3205B2  | NETWORK VIDEO RECORDER |
| PRN-3210B2  | NETWORK VIDEO RECORDER |
| XRN-3210B2  | NETWORK VIDEO RECORDER |
| XRN-3210RB2 | NETWORK VIDEO RECORDER |
| XRN-6410B2  | NETWORK VIDEO RECORDER |
| XRN-6410RB2 | NETWORK VIDEO RECORDER |



Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-CA-2016098-3  
**Report Reference** E158873- A6058-UL  
**Date** 8-Jun-2021

**Issued to:** Hanwha Techwin Co Ltd  
6, Pangyo-ro 319beon-gil, Bundang-gu Seongnam-si ,  
Gyeonggi-do,  
Republic of Korea 13488

**This is to certify that representative samples of** AZOT7 - Audio/Video, Information and Communication Technology Equipment Certified for Canada  
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** CSA C22.2 NO. 62368-1-14, 2nd Ed., Issue Date: 2014-12-01

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2016098-3  
Report Reference E158873- A6058-UL  
Date 8-Jun-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

| Model       | Category Description   |
|-------------|------------------------|
| PRN-1600B2  | NETWORK VIDEO RECORDER |
| PRN-1605B2  | NETWORK VIDEO RECORDER |
| PRN-1610B2  | NETWORK VIDEO RECORDER |
| PRN-3200B2  | NETWORK VIDEO RECORDER |
| PRN-3205B2  | NETWORK VIDEO RECORDER |
| PRN-3210B2  | NETWORK VIDEO RECORDER |
| XRN-3210B2  | NETWORK VIDEO RECORDER |
| XRN-3210RB2 | NETWORK VIDEO RECORDER |
| XRN-6410B2  | NETWORK VIDEO RECORDER |
| XRN-6410RB2 | NETWORK VIDEO RECORDER |



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## UL TEST REPORT AND PROCEDURE

|                                    |                                                                                                                                                                                                                                                                                        |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>                   | UL 62368-1, 2nd Ed, 2014-12-01 (Audio/video, information and communication technology equipment Part 1: Safety requirements)<br>CAN/CSA C22.2 No. 62368-1-14, 2nd Ed, Issued: 2014-12-01 (Audio/video, information and communication technology equipment Part 1: Safety requirements) |
| <b>Certification Type:</b>         | Listing                                                                                                                                                                                                                                                                                |
| <b>CCN:</b>                        | AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)                                                                                                                                                                                                          |
| <b>Complementary CCN:</b>          | N/A                                                                                                                                                                                                                                                                                    |
| <b>Product:</b>                    | NETWORK VIDEO RECORDER                                                                                                                                                                                                                                                                 |
| <b>Model:</b>                      | PRN-3210B2, PRN-1610B2, XRN-6410RB2, XRN-3210RB2, XRN-6410B2, XRN-3210B2, PRN-3200B2, PRN-3205B2, PRN-1600B2, PRN-1605B2                                                                                                                                                               |
| <b>Rating:</b>                     | 100-240 Vac, 50/60 Hz, 2.1 A (for PRN-3210B2, PRN-1610B2, PRN-3200B2, PRN-3205B2, PRN-1600B2, PRN-1605B2)<br>100-240 Vac, 50/60 Hz, 1.7 A (for XRN-6410RB2, XRN-3210RB2)<br>100-240 Vac, 50/60 Hz, 1.5 A (for XRN-6410B2, XRN-3210B2)                                                  |
| <b>Applicant Name and Address:</b> | HANWHA TECHWIN CO LTD<br>6, PANGYO-RO 319BEON-GIL, BUNDANG-GU<br>SEONGNAM-SI GYEONGGI-DO 13488 KOREA                                                                                                                                                                                   |

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared By: Lawrence Lee / Project Handler Reviewed By: SeulKi Park / Reviewer

### Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

- i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
- ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
- iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

### Product Description

NETWORK VIDEO RECORDER.

This unit consist of R/C (QQJQ2/8) power supply, DC Fan, main board, maximum 8 hard disk-drives (optional) and numerous components mounted on PWB.

This unit connect CCTV camera using 3 Network ports.

### Model Differences

PRN-3210B2 is basic model.

PRN-1610B2, XRN-6410RB2, XRN-3210RB2, XRN-6410B2, XRN-3210B2, PRN-3200B2, PRN-3205B2, PRN-1600B2, PRN-1605B2 are identical to basic model except model designation, main board type, CPU type, appearance.

### Test Item Particulars

|                                                                                                 |                                                   |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Classification of use by                                                                        | Ordinary person                                   |
| Supply Connection                                                                               | AC Mains                                          |
| Supply % Tolerance                                                                              | +10%/-10%                                         |
| Supply Connection – Type                                                                        | pluggable equipment type A -<br>appliance coupler |
| Considered current rating of protective device as part<br>of building or equipment installation | 20 A;<br>building;                                |
| Equipment mobility                                                                              | movable<br>rack-mounting                          |
| Over voltage category (OVC)                                                                     | OVC II                                            |
| Class of equipment                                                                              | --                                                |
| Access location                                                                                 | N/A                                               |
| Pollution degree (PD)                                                                           | PD 2                                              |
| Manufacturer's specified maximum operating<br>ambient (°C)                                      | 40                                                |
| IP protection class                                                                             | IPX0                                              |
| Power Systems                                                                                   | TN                                                |
| Altitude during operation (m)                                                                   | 2000 m or less                                    |
| Altitude of test laboratory (m)                                                                 | 2000 m or less                                    |
| Mass of equipment (kg)                                                                          | HDD Full Mounted (8 EA) : 8.85 kg                 |

**Technical Considerations**

- ☐ The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 40 °C
- ☐ The product is intended for use on the following power systems : TN
- ☐ Considered current rating of protective device as part of the building installation (A) : 20
- ☐ Mains supply tolerance (%) or absolute mains supply values : +10%/-10%
- ☐ The equipment disconnect device is considered to be : Appliance inlet
- ☐ The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS) : All accessible connectors
- ☐ The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual

**Additional Information**

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- All tests were considered necessary for UL/CSA national deviation based upon previous evaluation under CB Scheme. The CB Scheme Test Certificate, Ref. Certi. No. DK-110944-UL and Report Ref. No. C211A011-M0A0 were prepared by UL International Demko A/S, Borupvang 5A, DK-2750 Ballerup, Denmark.

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- Add model name; PRN-3200B2, PRN-3205B2, PRN-1600B2, PRN-1605B2.

**Additional Standards**

The product fulfills the requirements of: N/A

**Markings and Instructions**

| Clause Title                                                   | Marking or Instruction Details                                                                                                           |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment identification marking – Manufacturer identification | Listee's or Recognized companys name, Trade Name, Trademark or File Number                                                               |
| Equipment identification marking – model identification        | Model Number                                                                                                                             |
| Equipment rating marking – ratings                             | "Input Ratings (voltage, frequency/dc, current/power)", "Output Ratings (voltage, frequency/dc, current/power)"                          |
| Symbols - On/Off switch                                        | <p>Switches to be marked with</p> <p> </p> <p>symbol for "ON" (IEC 60417-5007) and</p> <p>○</p> <p>symbol for "OFF" (IEC 60417-5008)</p> |

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Replaceable batteries                                    | <p>"CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions."/"ATTENTION: Risque d'explosion si la batterie est remplacée par un type incorrect. Mettre au rebus les batteries usagées selon les instructions." (Marking)</p> <p>Alternatively, symbol</p> <p> </p> <p>(ISO 7000-0434 and/or ISO 7000-1641) on product where visible, with the above wording in the instruction manual.</p> |
| Class I equipment -Terminal for main protective earthing | <p>Provided adjacent to the main protective earthing terminal</p> <p></p> <p>(IEC 60417-5019)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hard Copy                                                | <p>A. IMPORTANT</p> <p>B. Please check 'Manuals' from our website, before connecting to the supply.</p> <p>C. Company website URL (<a href="https://www.~~">https://www.~~</a>)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Special Instructions to UL Representative</b><br>N/A  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|              |                                                                                                                                                                                        |                 |                     |            |           |              |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|------------|-----------|--------------|
| <b>BD1.0</b> | <b>TABLE: Production-Line Testing Requirements</b>                                                                                                                                     |                 |                     |            |           |              |
| <b>BD1.1</b> | <b>Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.</b>                                                       |                 |                     |            |           |              |
| Model        | Component                                                                                                                                                                              | Removable parts | Test probe location | Test V rms | Test V dc | Test Time, s |
| N/A          | N/A                                                                                                                                                                                    | N/A             | N/A                 | N/A        | N/A       | N/A          |
| <b>BD1.2</b> | <b>Earthing Continuity Test Exemptions – This test is not required for the following models:</b>                                                                                       |                 |                     |            |           |              |
|              | N/A                                                                                                                                                                                    |                 |                     |            |           |              |
| <b>BD1.3</b> | <b>Electric Strength Test Exemptions – This test is not required for the following models:</b>                                                                                         |                 |                     |            |           |              |
|              | N/A                                                                                                                                                                                    |                 |                     |            |           |              |
| <b>BD1.4</b> | <b>Electric Strength Test Component Exemptions – The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test.</b> |                 |                     |            |           |              |
|              | N/A                                                                                                                                                                                    |                 |                     |            |           |              |

|              |                                                            |          |      |            |                |
|--------------|------------------------------------------------------------|----------|------|------------|----------------|
| <b>BE1.0</b> | <b>Sample and Test Specifics for Follow-Up Tests at UL</b> |          |      |            |                |
| Model        | Component                                                  | Material | Test | Sample (s) | Test Specifics |
| N/A          | N/A                                                        | N/A      | N/A  | N/A        | N/A            |

| 4.1.2                         | TABLE: List of critical components               |                                               |                                                                                                                                                                                             |                            |                          | Pass          |
|-------------------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|---------------|
| Object / part No.             | Manufacturer/<br>trademark                       | Type / model                                  | Technical data                                                                                                                                                                              | Product Category<br>CCN(s) | Mark(s) of<br>conformity | Supplement ID |
| Power Supply<br>(SMPS)        | Channel Well<br>Technology Co.,<br>Ltd.          | FSAK250J                                      | Rated Input: 100-240<br>V~, 50/60 Hz , 4.0 A,<br>Output: +12 Vdc, 18.0<br>A, +5 Vdc, 13.0 A, +3.3<br>Vdc, 14.0 A, -12 Vdc,<br>0.3 A, +5Vsbdc, 2.0 A                                         | QQJQ2                      | UL (E161451)             |               |
| Power cord set                | Weihai Hong Lin<br>Electronic Co., Ltd.          | HL-002S + SVT<br>18AWG X 3C + HL-<br>004      | Detachable, min 1.5 m,<br>max. 4.5 m long, rated<br>125 V, 10 A, 18/3<br>AWG, 105 deg. C, SVT<br>type flexible cord. One<br>end with NEMA 5-15P<br>the other end with<br>appliance coupler. | ELBZ/7                     | UL (E254927)             |               |
| Power cord set -<br>Alternate | Longwell                                         | LP-30B + SVT<br>18AWG X 3C + LS-<br>13        | Detachable, min 1.5 m,<br>max. 4.5 m long, rated<br>125 V, 10 A, 18/3<br>AWG, 60 deg. C, SVT<br>type flexible cord. One<br>end with NEMA 5-15P<br>the other end with<br>appliance coupler.  | ELBZ/7                     | UL (E55349)              |               |
| Power cord set -<br>Alternate | CHANGZHOU<br>HONG CHANG<br>ELECTRONICS CO<br>LTD | DTII-3P-15+UL SVT<br>18AWG/3C +DTII-<br>3P-04 | Detachable, min 1.5 m,<br>max. 4.5 m long, rated<br>125 V, 10 A, 18/3<br>AWG, 105 deg. C, SVT<br>type flexible cord. One<br>end with NEMA 5-15P<br>the other end with<br>appliance coupler. | ELBZ/7                     | UL (E205766)             |               |
| Power cord set -<br>Alternate | KOREA KDK CO<br>LTD                              | KKP-30 + SVT<br>3/18AWG + KKS-<br>16A         | Detachable, min 1.5 m,<br>max. 4.5 m long, rated<br>125 V, 7 A, 18/3 AWG,<br>105 deg. C, SVT type                                                                                           | ELBZ/7                     | UL (E58075)              |               |

|                                                        |                                 |                                  |                                                                                                        |         |              |  |
|--------------------------------------------------------|---------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------|---------|--------------|--|
|                                                        |                                 |                                  | flexible cord. One end with NEMA 1-15 other end with appliance coupler.                                |         |              |  |
| Hard-disk frame (Plastic)                              | LOTTE ADVANCED MATERIALS CO LTD | NH-1035(+)                       | Min. 1.5 mm thickness, rated Min. V-0, 80 deg. C                                                       | QMFZ2/8 | UL (E115797) |  |
| Enclosure Top (Metal) (Metal) (Fire / Mech / Elec)     | Interchangeable                 | Interchangeable                  | SECC, approximately 438.0 by 413.0 by 11.0 mm, Min. 1.0 mm thickness, See enclosure for more detail.   | -       | -            |  |
| Enclosure -Bottom (Metal) (Metal) (Fire / Mech / Elec) | Interchangeable                 | Interchangeable                  | SECC, approximately 438.0 by 410.7 by 85.0 mm, Min. 1.0 mm thickness, See enclosure for more detail.   | -       | -            |  |
| Enclosure Front (Metal) (Metal) (Fire / Mech / Elec)   | Interchangeable                 | Interchangeable                  | Aluminum, approximately 438.0 by 22.0 by 71.9mm, Min. 1.8 mm thickness, See enclosure for more detail. | -       | -            |  |
| Enclosure Rear (Metal) (Metal) (Fire / Mech / Elec)    | Interchangeable                 | Interchangeable                  | SGCC, approximately 438.0 by 11.5 by 85.0 mm, Min. 1.0 mm thickness, See enclosure for more detail.    | -       | -            |  |
| Internal Plastic Part Materials                        | Interchangeable                 | Interchangeable                  | Rated Min. V-2                                                                                         | QMFZ2   | UL           |  |
| DC Fan_Main board                                      | FOXCONN TECHNOLOGY CO LTD       | PVA080G12Q-(X)yy-yy (PVA080G12Q) | 12 Vdc, 0.65 A                                                                                         | GPWV2   | UL (E231557) |  |

|                                                                    |                                            |                                                                           |                                                                                                                                     |                |              |  |
|--------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|--|
| DC Fan (near main board)                                           | NMB Technologies Corporation               | 06025S(i)-12N-(d)(e)-XX, 06025EA-12J-XY (Type: 06025SS-12N-AT-D2)         | 12 Vdc, 0.24 A                                                                                                                      | GPWV2          | UL (E89936)  |  |
| DC Fan (near SMPS board)                                           | NMB Technologies Corporation               | 08025S(h)-12M-(d)(e)-XX, 08025SS-12M-(d)(e)-(f) (Type: 08025SS-12M-AT-D2) | 12 Vdc, 0.15 A                                                                                                                      | GPWV2          | UL (E89936)  |  |
| Hard Disk Drive (Max. 8 EA) (Optional)                             | Interchangeable                            | Interchangeable                                                           | Rated 5 Vdc or 12 Vdc                                                                                                               | NWGQ2 or AZOT2 | UL           |  |
| Lithium Battery (BAT1)                                             | Wuhan Lixing (Torch) Power Sources Co.,Ltd | CR2032                                                                    | Non-rechargeable, Lithium/manganese dioxide (Coin), Max Continuous Discharge C Current: 10 mA, Max Abnormal Charging Voltage: 5 Vdc | BBCV2          | UL (MH26236) |  |
| Lithium Battery (BAT1) - Alternate                                 | SHENZHEN GAONENGDA BATTERY CO LTD          | CR2032                                                                    | Lithium/manganese dioxide (Coin), Max Abnormal Charging Current: 10 mA, Max Abnormal Charging Voltage: 3.5 Vdc                      | BBCV2          | UL (MH30114) |  |
| Reverse Current Protection Circuit for Lithium Coin Battery (BAT1) | Interchangeable                            | Interchangeable                                                           | Diode (D22, 30 V, 1 A) and resistor (R944, 1 kohm) in                                                                               | -              | -            |  |
| USB Protection IC (USB 2.0 : U59, U60 / USB 3.0 :U 50, U53)        | Texas Instruments Inc                      | TPS2062                                                                   | Rated 2.7 – 5.5 Vdc, 1 A                                                                                                            | QVGS2          | UL (E169910) |  |
| Internal Wiring (Secondary)                                        | Interchangeable                            | Interchangeable                                                           | Marked VW-1; Min. 30 V, 80 deg. C                                                                                                   | AVLV2          | UL           |  |

|                                                             |                     |                 |                                                              |                |             |  |
|-------------------------------------------------------------|---------------------|-----------------|--------------------------------------------------------------|----------------|-------------|--|
| Connectors and Receptacles (Secondary circuits)             | Interchangeable     | Interchangeable | Min. V-2                                                     | ECBT2          | UL          |  |
| Connectors and Receptacles (Secondary circuits) - Alternate | Interchangeable     | Interchangeable | Copper alloy pins housed in bodies of plastic rated Min. V-2 | QMFZ2          | UL          |  |
| PWB                                                         | HANNSTAR BOARD CORP | MV-4            | V-0, Min. 130 deg. C                                         | ZPMV2/8        | UL (E89382) |  |
| PWB - Alternate                                             | Interchangeable     | Interchangeable | Min. V-1, 130 deg. C                                         | ZPMV2          | UL          |  |
| Label                                                       | Interchangeable     | Interchangeable | Min.40 deg. C if max. surface temperature not specified.     | PGDQ2 or PGJI2 | UL          |  |

**Enclosures**

| Type          | Supplement Id | Description                       |
|---------------|---------------|-----------------------------------|
| Photographs   | 03-01         | External View - 1                 |
| Photographs   | 03-02         | External View - 2                 |
| Photographs   | 03-03         | Port Front                        |
| Photographs   | 03-04         | Port Rear                         |
| Photographs   | 03-05         | Internal                          |
| Photographs   | 03-06         | SMPS                              |
| Photographs   | 03-07         | Main Board                        |
| Photographs   | 03-08         | DC fan for main board             |
| Photographs   | 03-09         | DC fan for SMPS                   |
| Photographs   | 03-10         | HDD board                         |
| Manuals       | 06-01         | Manual                            |
| Miscellaneous | 07-01         | CRD for Dual Language Requirement |
| Miscellaneous | 07-02         | Enclosure Drawing                 |
| Miscellaneous | 07-03         | Label (for 1.5 A)                 |
| Miscellaneous | 07-04         | Label (for 1.7 A)                 |
| Miscellaneous | 07-05         | Label (for 2.1 A)                 |



The following Page(s) are related to Manuals-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

## IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit.  
Follow all the safety instructions listed below.  
Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean the contaminated area on the product surface with a soft, dry cloth or a damp cloth.  
(Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



## Standards Approvals



- Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.  
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## BEFORE START

This manual provides operational information necessary for using the product and contains a description about each component part and its function as well as menu or network settings.

You have to keep in mind the following notices :

- Hanwha Techwin retains the copyright on this manual.
- This manual cannot be copied without Hanwha Techwin's prior written approval.
- We are not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.
- Prior to opening the case, please consult a qualified technician first. Whenever this is needed power must be removed from the unit.
- Before adding a hard disk drive or external storage (USB memory, USB HDD, etc), check if it is compliant with this product. For the compatibility list, contact the retailer.

## Warning

### Battery

It is essential that when changing the battery in the unit, the replacement battery must be of the same type otherwise there may be a possibility of an explosion.

The following are the specifications of the battery you are using now.

- Normal voltage : 3V
- Normal capacity : 210mAh
- Continuous standard load : 0.4mA
- Operating temperature : -20°C ~ +60°C  
(-4°F ~ +140°F)

#### CALIFORNIA USA ONLY

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.  
"Perchlorate Material - special handling may apply,  
See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)."

### Moving fan blades

- Keep body parts away from fan blades.

## CAUTION

- Connect the power cord into a grounded outlet.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.
- When the HDD reaches its end of life, the stored video data may be damaged, and not be able to be recovered.
- The HDD status LED on the front of the system continuously blinks to indicate that the system's connection to the HDD is normal. Check the HDD status LED regularly to see if it blinks continuously. Recording may not be possible when there is an HDD failure.  
Periodically check the recording status and backup important data regularly.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- Do not ingest battery, Chemical Burn Hazard.
- This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.  
If you think batteries might have been swallowed or placed inside any part or the body, seek immediate medical attention.

ATTENTION

- IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT. METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.
- Ne pas ingérer la pile, risque de brûlure chimique.
- Ce produit contient une pile de type bouton/pièce de monnaie. Si la pile de type bouton/pièce de monnaie est avalée, elle peut causer de graves brûlures internes en seulement 2 heures et peut entraîner la mort.
- Gardez les piles neuves et usagées hors de portée des enfants. Si le compartiment de la pile ne se ferme pas correctement, cessez d'utiliser le produit et gardez-le d'atteinte des enfants.  
Si vous suspectez que des piles ont été avalées ou insérées dans une partie du corps, consultez un médecin sans tarder.

System Shutdown

Turning off the power while the product is in operation, or undertaking improper actions may cause damage or malfunction to the hard drive or the product.  
Press <OK> on the system shutdown popup window and then remove the power cable to ensure a safe power off.  
You may want to install a UPS system for safe operation in order to prevent damage caused by an unexpected power stoppage. (Any questions concerning UPS, consult your UPS retailer.)



If powered off abnormally, restarting may take more time for restoring data from hard disk drive for proper operation.

Operating Temperature

The guaranteed operating temperature range of this product is 0°C ~ 40°C (32°F ~ 104°F).  
This product may not work properly if you run right after a long period of storage at a temperature below the guaranteed one.  
Prior to using a device that has been stored for a long period in low temperatures, allow the product to stand at room temperature for a period.  
Especially for the built-in HDD in the product, its guaranteed temperature range is 5°C ~ 55°C (41°F ~ 131°F).  
Likewise, the hard drive may not work at a temperature below the guaranteed one.

Ethernet Port

This equipment is in door use and all the communication wirings are limited to inside of the building.

Security Precautions

The initial administrator ID is “admin” and the password should be set when logging in for the first time.  
Please change your password every three months to safely protect personal information and to prevent the damage of the information theft.  
Please, take note that it’s a user’s responsibility for the security and any other problems caused by mismanaging a password.

Products supporting each feature

| Function                | Products                                                            |
|-------------------------|---------------------------------------------------------------------|
| Fan                     | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |
| P2P                     | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |
| Alarm                   | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |
| RAID                    | XRN-6410RB2/XRN-3210RB2/PRN-3210B2/PRN-1610B2                       |
| Distributed recording   | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2            |
| iSCSI                   | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |
| AI recognition function | PRN-3210B2/PRN-1610B2                                               |
| AI compatible function  | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |
| Joystick                | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |
| Extended monitor        | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |
| Failover                | XRN-6410RB2/XRN-6410B2/XRN-3210RB2/XRN-3210B2/PRN-3210B2/PRN-1610B2 |



The following Page(s) are related to Miscellaneous-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

Standard SCC Requirements and Guidance - Product Certification Body Accreditation Program Edition/ Revision Date 2016-04-06

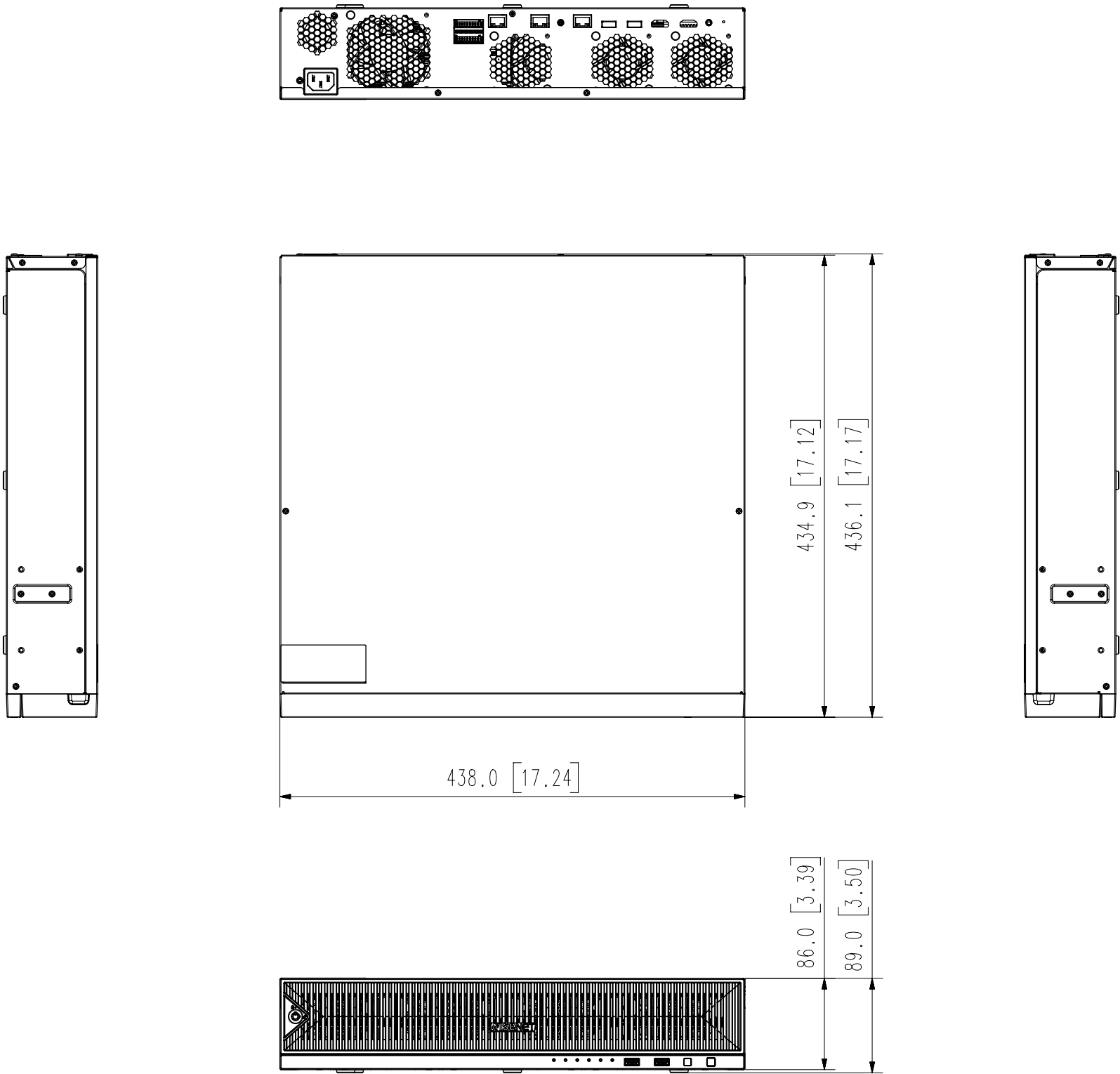
| Clause/Par. Reference and Construction Requirement                                                                                                                                                                                                                                                                                                            | Comply |    |     | Comments/Measurements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Inst. ID No. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|                                                                                                                                                                                                                                                                                                                                                               | Yes    | No | N/A |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
| 9.2.3 CBs shall include dual language safety labeling within their product certification requirements, if so required by the standard or by the authority having jurisdiction.                                                                                                                                                                                |        |    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
| The manufacturer has confirmed they have the ability to include English and French safety labeling exactly as specified in the product standard; or, if NOT specified in the product standard, the ability to include English and French safety labelling consisting of markings associated with the signal words DANGER, WARNING, and CAUTION when required. | X      |    |     | The ability of the manufacturer to include these markings was verified by either (1) visual inspection of the markings on the actual product or (2) draft of labels that will be applied to the product or (3) written confirmation from the customer of the markings that will appear on the product. If the product standard provides the exact translation, the evidence must match the exact translation. If the product standard does NOT provide the exact translation, the evidence must simply include both the English and French text (no verification of translation is required). | N/A          |

| Clause/Par. Reference and Construction Requirement                                                                                                             | Comply |    |     | Comments/Measurements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Inst. ID No. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|                                                                                                                                                                | Yes    | No | N/A |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |
| Manufacturer has a method to manage distribution of products, IF all products with the Canadian certification mark are NOT going to include the dual language. | X      |    |     | Evaluation staff are to only verify that the manufacturer has a method to control distribution.<br><br>Evaluation staff do not have to record the method of control nor are the evaluation staff expected to verify the effectiveness of the method of control. This requirement to verify that a method exists will be noted in the FUS Procedure. The UL Field Engineer will verify the method during surveillance.<br><br>If the manufacturer is going to include the dual language on all products with the Canadian certification mark, then this item is N/A; no further action required. | N/A          |



The following Page(s) are related to Miscellaneous-02. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

This parts should not contain any substances which are specified in AH60-0033K



Apprearance Drawing  
PRN-6410B2, 3210B2, 1610B2  
XRN-6410RB2, 3210RB2  
Unit : mm [inches]



## NETWORK VIDEO RECORDER

MODEL: XRN-6410B2

AC 100-240V~ 50/60Hz 1.5A

M/C: XRN-6410B2/KAP Fac. ID: D



DATE S/N: Serial No.

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

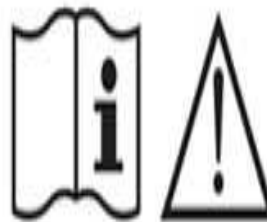
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MAC ADDRESS 3: XX-XX-XX-XX-XX-03

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

MADE IN KOREA

Hanwha Techwin Co., Ltd.



PT03-002663S

## NETWORK VIDEO RECORDER

MODEL: XRN-6410RB2

AC 100-240V~ 50/60Hz 1.7A

M/C: XRN-6410RB2/KAP Fac. ID: D



DATE S/N: Serial No.

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

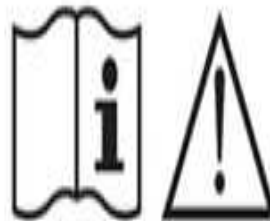
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MAC ADDRESS 3: XX-XX-XX-XX-XX-03

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

MADE IN KOREA

Hanwha Techwin Co., Ltd.



PT03-002663S

## NETWORK VIDEO RECORDER

MODEL: PRN-3210B2

AC 100-240V~ 50/60Hz 2.1A

M/C: PRN-3210B2/KAP Fac. ID: D



DATE S/N: Serial No.

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

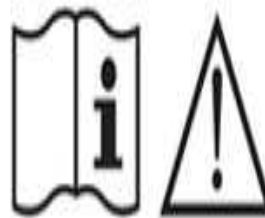
MAC ADDRESS 2: XX-XX-XX-XX-XX-02

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

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

MADE IN KOREA

Hanwha Techwin Co., Ltd.



PT03-002663S





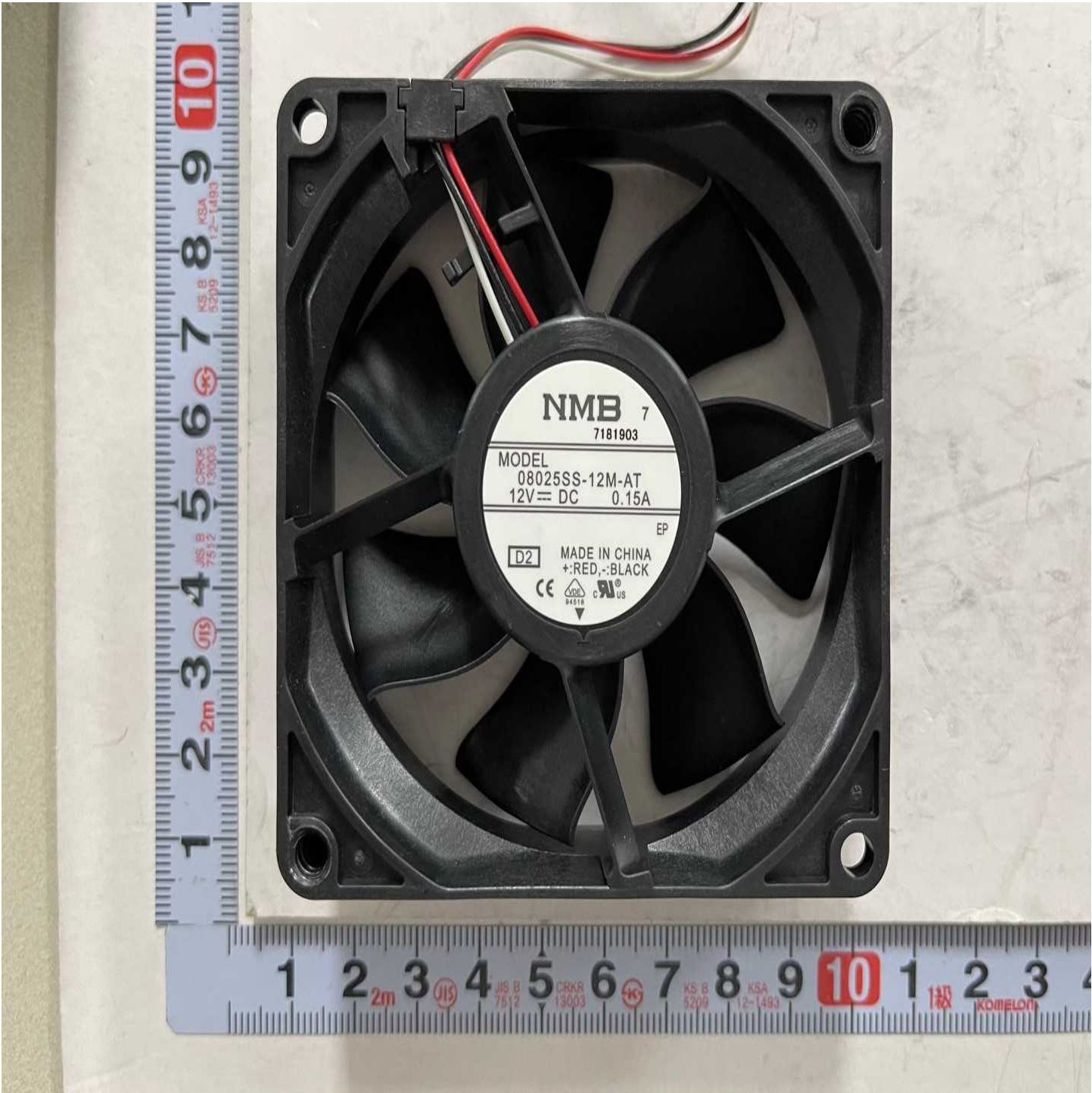


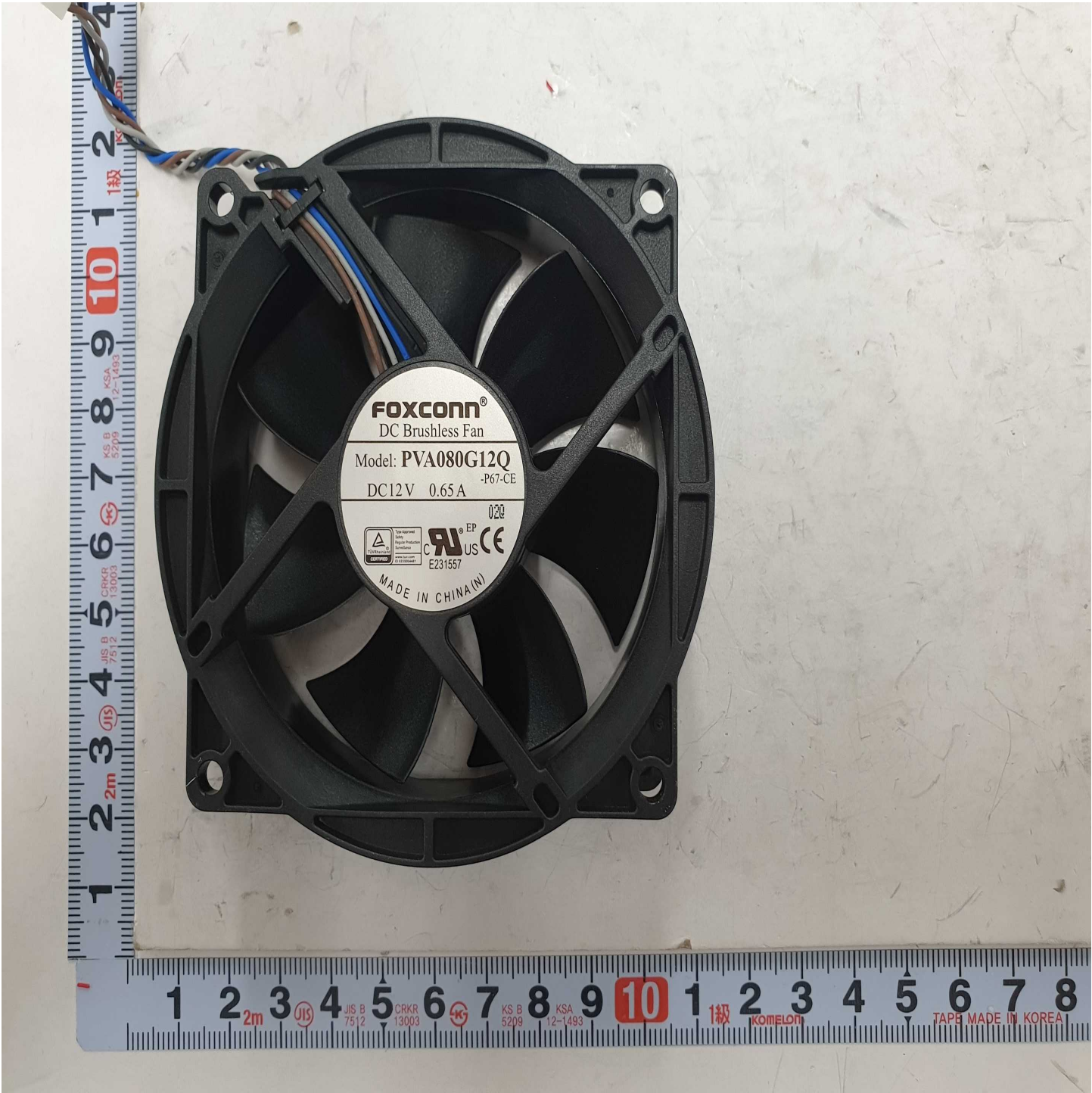


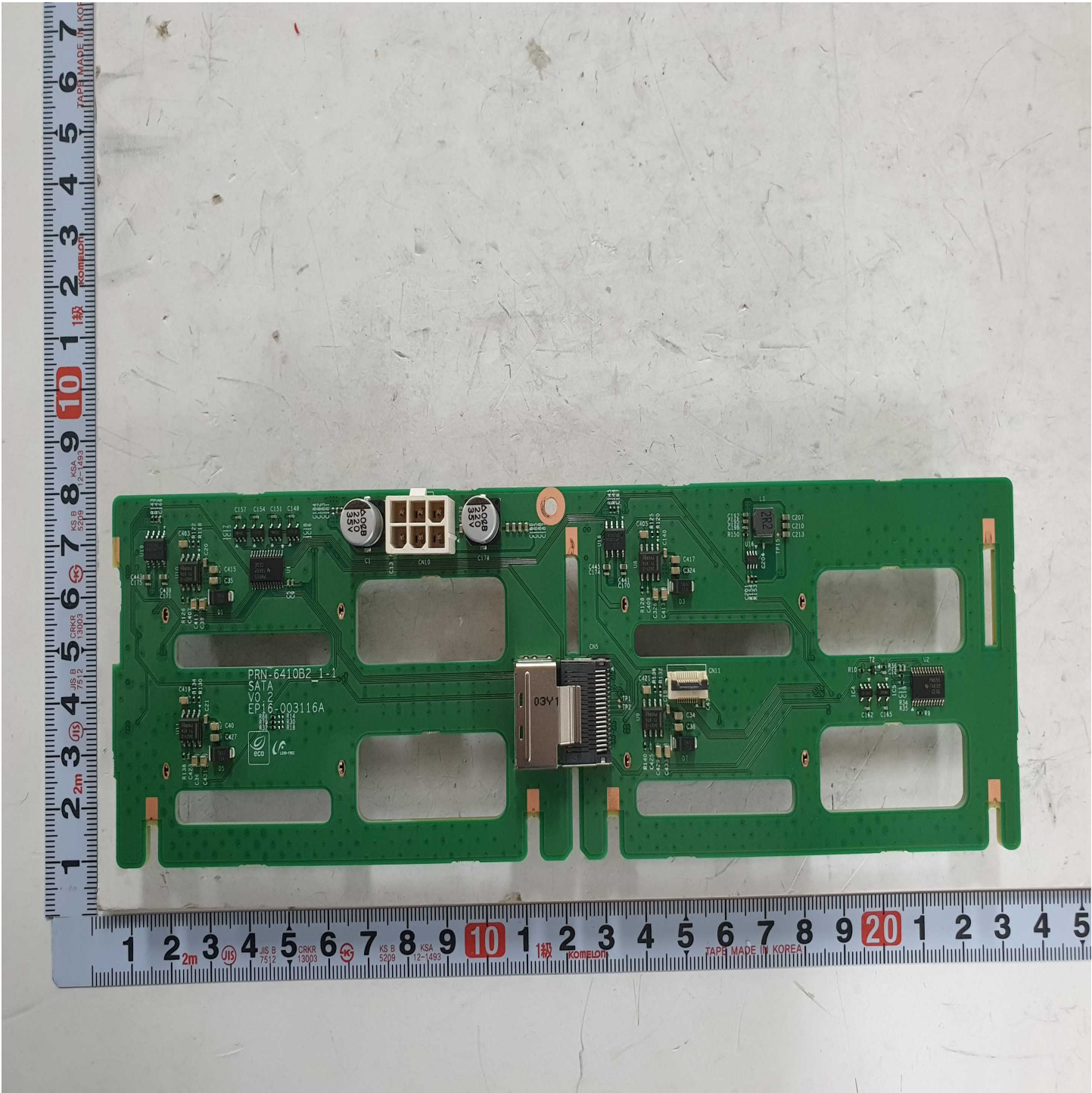












Revision Date: 2021-05-31

**Test Record No. 1**

All tests were considered necessary for UL/CSA national deviation based upon previous evaluation under CB Scheme. The CB Scheme Test Certificate, Ref. Certi. No. DK-110944-UL and Report Ref. No. C21IA011-M0A0 were prepared by UL International Demko A/S, Borupvang 5A, DK-2750 Ballerup, Denmark.

The following tests were conducted:

|                                                                                                     |                                                   |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Tests performed (name of test and test clause):</b>                                              | <b>Testing location:</b><br>None (CBTL), None     |
|                                                                                                     |                                                   |
| <b>The following tests were waived:</b>                                                             | <b>Rationale for Waiving</b>                      |
| IMPACT TEST (4.4.4.4, ANNEX T.6)                                                                    | See CBTR (C21IA011-M0A0) test result for details. |
| STEADY FORCE TEST FOR INTERNAL ENCLOSURE AND BARRIER (4.4.4.5, ANNEX T.3)                           | See CBTR (C21IA011-M0A0) test result for details. |
| CLASSIFICATION OF ELECTRICAL ENERGY SOURCES (5.2, 5.7)                                              | See CBTR (C21IA011-M0A0) test result for details. |
| MAXIMUM OPERATING TEMPERATURE FOR MATERIALS, COMPONENTS AND SYSTEMS (5.4.1.4, 6.2, 9.2.5 ANNEX B.2) | See CBTR (C21IA011-M0A0) test result for details. |
| DETERMINATION OF WORKING VOLTAGE (5.4.1.8)                                                          | See CBTR (C21IA011-M0A0) test result for details. |
| HUMIDITY CONDITIONING (5.4.8)                                                                       | See CBTR (C21IA011-M0A0) test result for details. |
| SAFEGUARDS AGAINST CAPACITOR DISCHARGE AFTER DISCONNECTION OF A CONNECTOR (5.5.2.2)                 | See CBTR (C21IA011-M0A0) test result for details. |
| RESISTANCE OF THE PROTECTIVE BONDING SYSTEM (5.6.6.2)                                               | See CBTR (C21IA011-M0A0) test result for details. |
| PROSPECTIVE TOUCH VOLTAGE AND TOUCH CURRENT MEASUREMENT (5.7)                                       | See CBTR (C21IA011-M0A0) test result for details. |
| POWER MEASUREMENTS (6.2.2.2, 6.2.2.3)                                                               | See CBTR (C21IA011-M0A0) test result for details. |
| STATIC STABILITY (8.6.2)                                                                            | See CBTR (C21IA011-M0A0) test result for details. |
| INPUT TEST: SINGLE PHASE (B.2.5)                                                                    | See CBTR (C21IA011-M0A0) test result for details. |
| SIMULATED ABNORMAL OPERATING CONDITIONS (B.3)                                                       | See CBTR (C21IA011-M0A0) test result for details. |
| SIMULATED SINGLE FAULT CONDITIONS (B.4)                                                             | See CBTR (C21IA011-M0A0) test result for details. |
| PROTECTION CIRCUITS FOR BATTERIES (ANNEX M.3.2)                                                     | See CBTR (C21IA011-M0A0) test result for details. |
| LIMITED POWER SOURCE (ANNEX Q.1)                                                                    | See CBTR (C21IA011-M0A0) test result for details. |
|                                                                                                     |                                                   |

Revision Date: 2021-05-31

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as part of this Test Record. NOTE: These supplements are only available to the Applicant via the myUL™ Client Portal.

| Type | Supplement Id | Description |
|------|---------------|-------------|
|      |               |             |

Revision Date: 2021-05-31

**Test Record No. 2**

No test was considered necessary in order to below revision.

- Add model name; PRN-3200B2, PRN-3205B2, PRN-1600B2, PRN-1605B2.

The following tests were conducted:

|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| <b>Tests performed (name of test and test clause): None</b> | <b>Testing location: None</b> |
|                                                             |                               |
| <b>The following tests were waived: None</b>                | <b>Rationale for Waiving</b>  |
|                                                             |                               |
|                                                             |                               |

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as part of this Test Record. NOTE: These supplements are only available to the Applicant via the myUL™ Client Portal.

| Type | Supplement Id | Description |
|------|---------------|-------------|
|      |               |             |

