



File E158873

Vol X13

Authorization Page 1

Issued: 2020-07-22

Revised: 2023-05-02

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT
(AZOT, AZOT7)

Manufacturer:	SEE ADDENDUM FOR MANUFACTURER LOCATIONS
Applicant: (813307-003)	105140 (Party Site) Hanwha Vision Co Ltd 6, Pangyo-ro 319beon-gil, Bundang-gu Seongnam-si Gyeonggi-do 13488 KR
Listee/Classified Company: (813307-003)	105140 (Party Site) SAME AS APPLICANT

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the Applicant, Manufacturer(s), and Listee/Classified Company to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following website: <https://www.ul.com/fus>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <https://www.ul.com/aboutul/locations/>, select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) and any Listee/Classified Company in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant, the specified Manufacturer(s), and any Listee/Classified Company will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: <https://www.ul.com/resources/contracts/follow-up-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding

that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body. The certification body's accreditation status for the applicable certification scheme and identification of the accreditation body can be found at <https://www.ul.com/resources/accreditation>.

Deborah Jennings-Conner
VP Regulatory Services
UL LLC

LOCATION

135422 (Party Site)
D-TECH CO LTD
173-25 Saneop-ro Gwonseon-gu
Suwon-si Gyeonggi-do 16648 KR
Factory ID: D
UL Contracting Party for above site is: UL GmbH

1846102 (Party Site)
HANWHA VISION VIETNAM COMPANY LIMITED
Lot O-2 Que Vo Industrial Zone extended area Nam Son Ward
Bac Ninh VN
Factory ID: V
UL Contracting Party for above site is: UL GmbH

2467434 (Party Site)
KCE Co Ltd
KCE B/D 34, Annam-ro 369beon-gil Bupyeong-gu
Incheon 21312 KR
Factory ID: C
UL Contracting Party for above site is: UL GmbH

(100578-786) 241273 (Party Site)
OIC KOREA CO LTD
5F, 12 Annam-ro 369beon-gil Bupyeong-gu
Incheon 21312 KR
Factory ID: O
UL Contracting Party for above site is: UL GmbH

2637173 (Party Site)
KOSTEM CO.,Ltd.
4-74, 228, Haan-ro
Gwangmyeong-si Gyeonggi-do KR
Factory ID: KOS
UL Contracting Party for above site is: UL GmbH



Multiple Listing Correlation Sheet

ML FILE NO. E482654

Issued: 2022-11-30
Revised: 2023-03-21

MULTIPLE LISTING
of
AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT
(AZOT, AZOT7)
for

[1566244] QOGNIFY LTD

Basically Listed for:

[105140] HANWHA VISION CO LTD

MARKING: Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, file number, Trademark / Tradename, when applicable, and product designation. The Control Number remains 9T96.

LITERATURE: If literature is packaged with the Multiple Listed product(s) it shall be in compliance with the requirements outlined in the appropriate UL Standard(s).

Basically Listed products covered by Procedure and/or Reports under File No. E158873, Volume X13

Products Covered	Report Date	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designation
NETWORK VIDEO ENCODER	A6125-UL	SPE-1630	NVE4016

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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, TNV-8011C	E158873-A6035-UL	
OUTDOOR NETWORK CAMERA	PNM-8082VT	E158873-A6036-UL	
THERMAL CAMERA	TNM-3620TDY, TNM-C3620TDR, TNM-C3622TDR	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	

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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, QNP-6251	E158873-A6068-UL	
NETWORK CAMERA	QNP-6320H, QNP-6250H, QNP-6251H	E158873-A6069-UL	
NETWORK CAMERA	XNV-C9083R, XNV-C8083R, XNV-C7083R, XNV-C6083R, XNV-C6083	E158873-A6070-UL	
NETWORK CAMERA	TID-600R	E158873-A6071-UL	
DIGITAL VIDEO RECORDER	HRX-1632, HRX-835	E158873-A6072-UL	
LED MONITOR	SMT-4343	E158873-A6073-UL	
NETWORK CAMERA	TNO-7180R, TNO-7180RLP	E158873-A6075-UL	
NETWORK CAMERA	XND-C9083RV, XND-C8083RV, XND-C7083RV, XND-C6083RV	E158873-A6076-UL	
NETWORK CAMERA	PNM-9031RV	E158873-A6077-UL	
NETWORK CAMERA	QNO-7082R	E158873-A6078-UL	
NETWORK CAMERA	QND-7082R	E158873-A6080-UL	
NETWORK CAMERA	QNV-7082R	E158873-A6081-UL	
NETWORK CAMERA	XNO-C9083R, XNO-C8083R, XNO-C7083R, XNO-C6083R	E158873-A6082-UL	
NETWORK CAMERA	XNV-9083R, XNV-8083R, XNV-8093R, XNV-6083R	E158873-A6083-UL	
NETWORK CAMERA	XND-9083RV, XND-8083RV, XND-8093RV, XND-6083RV	E158873-A6084-UL	
NETWORK CAMERA	QNO-7032R, QNO-7022R, QNO-7012R	E158873-A6088-UL	

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NETWORK CAMERA	XNB-9003, XNB-8003, XNB-6003	E158873-A6089-UL	
NETWORK CAMERA	XNO-9083R, XNO-8083R, XNO-6083R	E158873-A6091-UL	
NETWORK CAMERA	QNV-7012R, QNV-7022R, QNV-7032R	E158873-A6092-UL	
NETWORK CAMERA	QND-7012R, QND-7022R, QND-7032R	E158873-A6093-UL	
NETWORK CAMERA	QNP-6320R, QNP-6250R	E158873-A6094-UL	
NETWORK CAMERA	XNV-6123R	E158873-A6100-UL	
NETWORK CAMERA	XNO-6123R	E158873-A6101-UL	
NETWORK CAMERA	LNO-6072R	E158873-A6102-UL	
NETWORK CAMERA	LVN-6012R, LVN-6022R, LVN-6032R, ANV-L6012R	E158873-A6103-UL	
NETWORK CAMERA	LVN-6072R	E158873-A6104-UL	
NETWORK CAMERA	LND-6012R, LND-6022R, LND-6032R	E158873-A6105-UL	
NETWORK CAMERA	LND-6072R	E158873-A6106-UL	
NETWORK CAMERA	LNO-6012R, LNO-6022R, LNO-6032R, ANO-L6012R, ANO-L6022R	E158873-A6107-UL	
NETWORK CAMERA	ANO-L7022R, ANO-L7012R	E158873-A6108-UL	
NETWORK CAMERA	TNV-7010RC, TNV-7011RC	E158873-A6109-UL	
NETWORK CAMERA	ANV-L7012R	E158873-A6110-UL	
NETWORK CAMERA	XNZ-6320A	E158873-A6111-UL	
NETWORK CAMERA	QNP-6320HS	E158873-A6112-UL	
NETWORK CAMERA	PNM-A9083RVD, PNM-A7083RVD, PNM-C12083RVD, PNM-C7083RVD	E158873-A6113-UL	
NETWORK VIDEO RECORDER	ARN-1610S	E158873-A6114-UL	
NETWORK CAMERA	XNZ-L6320A	E158873-A6115-UL	
NETWORK VIDEO RECORDER	QRN-1630S, XRN-815S	E158873-A6116-UL	
NETWORK CAMERA	ANO-L7082R, ANO-L6082R	E158873-A6117-UL	
THERMAL NETWORK CAMERA	TNM-C4940TD, TNM-C4950TD, TNM-C4960TD, TNM-C4940TDR, TNM-C4942TDR	E158873-A6118-UL	
NETWORK CAMERA	ANE-L7012R, ANE-L6012R	E158873-A6119-UL	
NETWORK CAMERA	PNM-12082RVD, PNM-7082RVD	E158873-A6120-UL	
NETWORK CAMERA	ANV-L7082R, ANV-L6082R	E158873-A6121-UL	
DIGITAL VIDEO RECORDER	HRX-1635	E158873-A6122-UL	
DIGITAL VIDEO RECORDER	HRX-835A	E158873-A6123-UL	
NETWORK CAMERA	XNF-9013RV	E158873-A6124-UL	
NETWORK VIDEO ENCODER	SPE-1630	E158873-A6125-UL	
NETWORK VIDEO RECORDER	QRN-430S, ARN-410S	E158873-A6126-UL	
NETWORK VIDEO RECORDER	XRN-420S	E158873-A6127-UL	

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NETWORK VIDEO RECORDER	QRN-830S	E158873-A6128-UL	
NETWORK VIDEO RECORDER	ARN-810S	E158873-A6129-UL	
NETWORK CAMERA	XNV-9083RZ, XNV-8083RZ, XNV-6083RZ	E158873-A6130-UL	
DIGITAL VIDEO RECORDER	HRX-434	E158873-A6131-UL	
NETWORK CAMERA	XNV-8083Z, XNV-6083Z	E158873-A6132-UL	
NETWORK VIDEO ENCODER	SPE-420	E158873-A6133-UL	
NETWORK CAMERA	XNB-6002, XNB-H6244A	E158873-A6134-UL	
DIGITAL VIDEO RECORDER	HRX-435	E158873-A6135-UL	
DIGITAL VIDEO RECORDER	HRX-1634	E158873-A6136-UL	
VIDEO DECODER	SPD-152	E158873-A6137-UL	
NETWORK CAMERA	PNM-C9022RV	E158873-A6138-UL	
PENDANT SPEAKER	SPA-P100W, SPA-P100B	E158873-A6139-UL	
SECURITY LED MONITOR	SMT-2212	E158873-A6140-UL	
DIGITAL VIDEO RECORDER	ARD-1610	E158873-A6142-UL	
DIGITAL VIDEO RECORDER	ARD-810, ARD-410	E158873-A6144-UL	
NETWORK CAMERA	PNV-A6081R-E2T, PNV-A6081R-E1T	E158873-A6150-UL	
USB JOYSTICK CONTROLLER	SPC-2001	E158873-A6151-UL	
NETWORK CAMERA	MGC-D8080LI, MGC-D8080	E158873-A6153-UL	
NETWORK CAMERA	QNO-C9083R, QNO-C8083R	E158873-A6154-UL	
NETWORK CAMERA	QNV-C9083R, QNV-C8083R	E158873-A6155-UL	
NETWORK CAMERA	XNP-C9303RW, XNP-C8303RW, XNP-C6403RW	E158873-A6158-UL	
NETWORK CAMERA	XNP-C9253R, XNP-C8253R, XNP-C6403R	E158873-A6159-UL	
NETWORK CAMERA	XNP-C9253, XNP-C8253, XNP-C6403	E158873-A6160-UL	
NETWORK CAMERA	TNV-C7013RC	E158873-A6161-UL	
NETWORK CAMERA	MGC-F9010LI	E158873-A6162-UL	
NETWORK CAMERA	PNM-C32083RVQ, PNM-C16083RVQ	E158873-A6163-UL	
NETWORK CAMERA	QNV-C9011R, QNV-C8011R, QNV-C8012	E158873-A6164-UL	
ANALOG CAMERA	ACE-8020R, ACE-6020R	E158873-A6165-UL	
ANALOG CAMERA	ACV-8081R, ACV-8080R	E158873-A6166-UL	
ANALOG CAMERA	ACO-8020R, ACO-6020R	E158873-A6167-UL	
NETWORK CAMERA	ANE-L7012L	E158873-A6168-UL	
NETWORK CAMERA	IFS02-B12-OIB4	E158873-A6169-UL	
NETWORK CAMERA	IFS02-D12-OIB4	E158873-A6170-UL	
NETWORK CAMERA	IFS08-D13-ATB4	E158873-A6175-UL	
NETWORK CAMERA	PNM-C34404RQPZ	E158873-A6178-UL	
NETWORK CAMERA	PNO-A9311R, PNO-A9311RLP	E158873-A6179-UL	

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NETWORK CAMERA	PNM-C16013RVQ	E158873-A6180-UL	
LENS MODULE	SLA-T2480WDA	E158873-A6181-UL	
NETWORK CAMERA	IFS05-D12-ATB4	E158873-A6182-UL	
NETWORK CAMERA	IFS02-D12-ATB4	E158873-A6183-UL	
NETWORK CAMERA	IFS02-C10-OIB4	E158873-A6184-UL	
NETWORK CAMERA	IFS05-C10-OIB4	E158873-A6185-UL	
NETWORK CAMERA	IFS08-C23-OIB4	E158873-A6186-UL	
NETWORK CAMERA	IFS08-B13-OIB4	E158873-A6187-UL	
NETWORK CAMERA	IFS05-D12-OIB4	E158873-A6188-UL	
NETWORK CAMERA	IFS08-D13-OIB4	E158873-A6189-UL	
LENS MODULE	SLA-T2480WA	E158873-A6191-UL	
NETWORK CAMERA	IFS05-B12-OIB4	E158873-A6192-UL	
Network Video Recorder	XRN-6420DB4	E158873-A6193-UL	
Network Video Recorder	XRN-6420B4, XRN-3220B4	E158873-A6194-UL	
NETWORK CAMERA	XNP-C9310R, XNP-C7310R	E158873-A6195-UL	
NETWORK CAMERA	IFS05-B31-OIB4	E158873-A6196-UL	
Public View Monitor	SMT-2731PV	E158873-A6197-UL	
ANALOG CAMERA	HCF-8011RV	E158873-A6198-UL	
NETWORK THERMAL CAMERA	TNO-C3032TRA, TNO-C3010TRA, TNO-C3020TRA, TNO-C3030TRA, TNO-C3012TRA, TNO-C3022TRA	E158873-A6199-UL	
Public View Monitor	SMT-3231PV	E158873-A6200-UL	
NETWORK CAMERA	QNE-C9013RL, QNE-C8013RL	E158873-A6201-UL	
AI BOX	AIB-800	E158873-A6202-UL	
BARCODE READER	TNS-9050IBC	E158873-A6203-UL	
NETWORK CAMERA	TNV-C8011RW	E158873-A6204-UL	
Public View Monitor	SMT-1031PVW, SMT-1031PV	E158873-A6207-UL	

UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Listing
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	Public View Monitor
Model:	SMT-1031PVW, SMT-1031PV
Rating:	1. 24Vdc, 0.45A 2. PoE(53 Vdc), 0.25A
Applicant Name and Address:	HANWHA VISION CO LTD 6, PANGYO-RO 319BEON-GIL, BUNDANG-GU 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: Seohwan Kim / Project Handler Reviewed By: Seungtae Kim / 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

Public View Monitor has been designed for indoor use and moveable equipment

It is a commercial equipment supplied from 24 Vdc or PoE(53Vdc)

Model Differences

SMT-1031PVW is basic model

SMT-1031PV is black color, Basic model is white color.

Test Item Particulars

Product group	end product
Classification of use by	Ordinary person Children likely to be present
Supply Connection	not mains connected: ES1
Supply tolerance	None
Supply connection – type	Not directly connected to the mains
Considered current rating of protective device	N/A
Equipment mobility	movable wall/ceiling-mounted
Over voltage category (OVC)	OVC I
Class of equipment	Class III
Special installation location	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified Tma (°C)	40
IP protection class	IPX0
Power systems	not AC mains
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	0.81

Technical Considerations

- ☐ The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 40

- ☐ Considered current rating of protective device as part of the building installation (A) : N/A
- ☐ The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual

Additional Information

4791148381

- Tests were not considered necessary to determine compliance with Standard UL 62368-1, 3rd Ed, 2021-10-22 and CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 based upon previous evaluation under the IEC 62368-1: 2018 for the CB Scheme Test Certificate, Ref. Certi. DK-150415-UL and Report Ref. No. C24IA004-M0A0 dated 2024-02-19 were prepared by UL International Demko A/S, Borupvang 5A, DK-146175 Ballerup, Denmark.

- Maximum Normal Load: Continuous operation, Max. Brightness, USB output load (5 Vd.c., 0.5 A)

Additional Standards

The product fulfills the requirements of: N/A

Markings and Instructions

Clause Title	Marking or Instruction Details
See Installation Instructions	The symbol 
Equipment identification marking – Manufacturer identification	Listee's or Recognized Company's 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)
(Website) Manual - 1	This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2".
(Website) Manual - 2	The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3bt shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.
Hard Copy	A. IMPORTANT or ATTENTION or similar wording. B. Please check 'Manuals' from our website, before connecting to the supply. C. Company website URL (https://www.~~) or QR code.

Special Instructions to UL Representative

N/A

BD1.0	TABLE: Production-Line Testing Requirements					
BD1.1	Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.					
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
BD1.2	Earthing Continuity Test Exemptions – This test is not required for the following models:					
	All models					
BD1.3	Electric Strength Test Exemptions – This test is not required for the following models:					
	All models					
BD1.4	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.					
	All models					

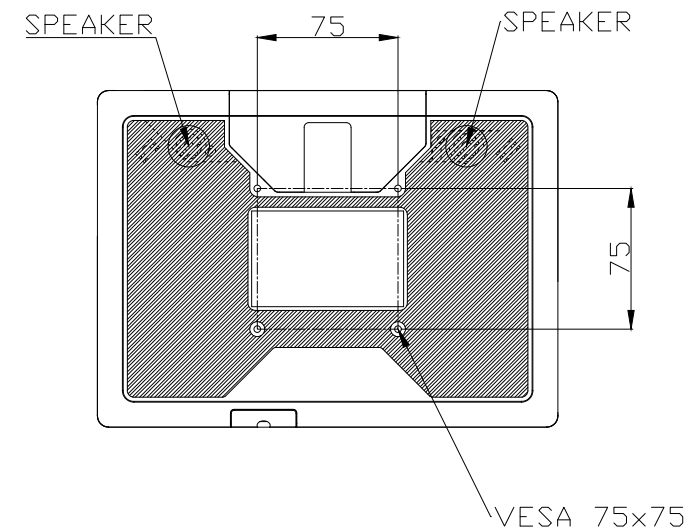
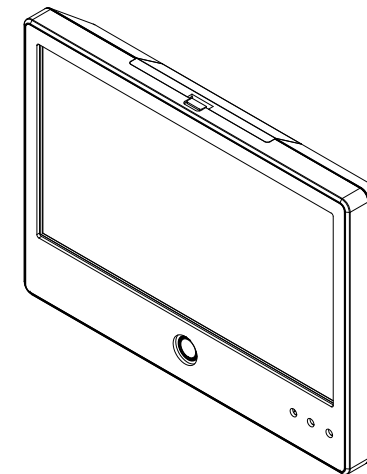
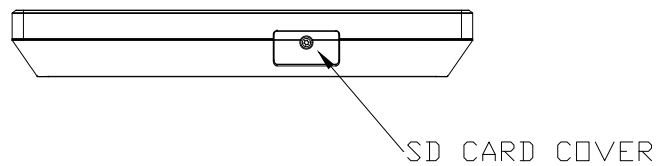
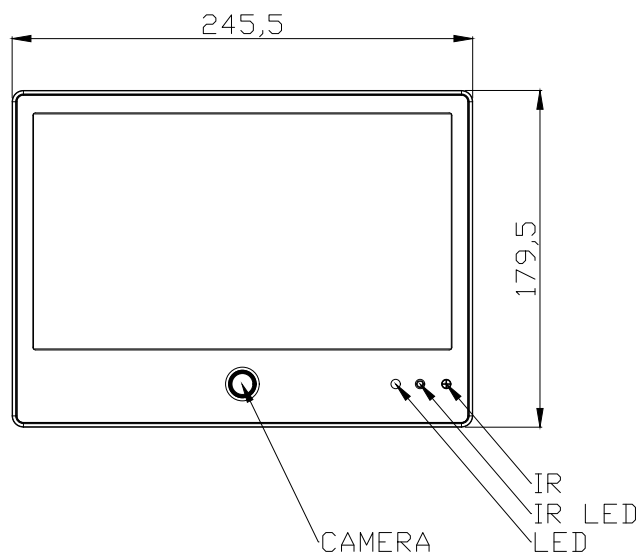
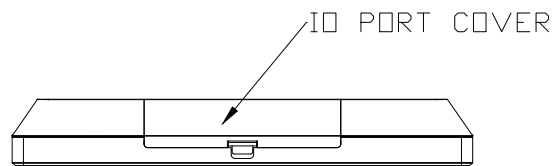
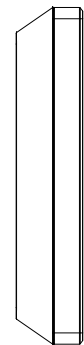
BE1.0	Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics
-	-	-	-	-	-

4.1.2	TABLE: List of critical components					Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Product Category CCN(s)	Mark(s) of conformity	Supplement ID
Enclosure (Plastic)	SAMYANG CORPORATION	210NHF	Min 1.0 mm, V-0, 60 deg. C	QMFZ2/8	UL (E121254)	
TFT-LCD Panel	AUO Corporation	G101STN01.C	10.1 inch LCD, Rated 3.3 Vdc, Max. 0.16 A, Resolution 1 024 by 600	AZOT 2/8	UL (E204356)	
Network Camera	HANWHA VISION CO LTD	TNB-C6005	Input: 24 Vdc, 0.21 A	-	-	
Fuse (F1) for Network Camera board	LITTELFUSE INC	454*	125 Vac, 1.5 A	JDYX2	UL (E10480)	
(Alternate)	SEMITELELECTRONICS CO LTD	S6125S	125 Vac, 1.5 A	JDYX2	UL (E338954)	
(Alternate)	LITTELFUSE INC	449*	125 Vac, 1.5 A	JDYX2	UL (E10480)	
Fuse (F1) for PoE board	COOPER BUSSMANN LLC	6125TD	125 Vac, 2.5 A	JDYX2	UL (E19180)	
(Alternate)	LITTELFUSE INC	452*\$	125 Vac, 2.5 A	JDYX2	UL (E10480)	
Transformer (PT1)	WEIHAI YILIAN ELECTRICS CO., LTD.	C100P	130 deg. C	-	-	
(Alternate)	GE & TECH	C100P	130 deg. C	-	-	
Opto-coupler (PC1)	EVERLIGHT ELECTRONICS CO LTD	EL3H7	Isolation Voltage: 3 750. Max. Operation Temperature: 110 deg. C	FPQU2	UL (E214129)	
(Alternate)	COSMO ELECTRONICS CORP	KPS2801	Isolation Voltage: 3 750. Max. Operation	FPQU2	UL (E169586)	

			Temperature: 100 deg. C			
Lithium Battery (BAT1)	SEIKO INSTRUMENTS INC MICRO-ENERGY DIV	ML414H	Lithium (Coin), Rechargeable, Max. Charging Voltage: 3.4 Vdc, Max. Charging Current: 300 mAh	BBCV2	UL (MH15628)	
Reverse Current Protection Circuit for Lithium Coin Battery (BAT1)	Interchangeable	Interchangeable	Diode (D2, 80 V, 300 mA) and resistor (R79, 3.3 kohm) in series.	-	-	
PWB	JAE IN CIRCUIT CO LTD	JIM1 / JID1	Min. V-0, 130 deg. C	ZPMV2	UL (E201289)	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	Overview
Photographs	03-02	Overview 2
Photographs	03-03	Internal View
Photographs	03-04	Network board_top
Photographs	03-05	Network board_bottom
Photographs	03-06	PoE board_top
Photographs	03-07	PoE board_bottom
Photographs	03-08	RMM312 board_top
Photographs	03-09	RMM312 board_bottom
Photographs	03-10	KG301 board_top
Photographs	03-11	KG301 board_bottom
Photographs	03-12	Pannel view
Diagrams	04-01	Appearance
Manuals	06-01	Manuals
Miscellaneous	07-01	Label
Miscellaneous	07-02	Trans Specification



PUBLIC VIEW MONITOR

SMT-1031PV
SMT-1031PVW
SMT-2731PV
SMT-3231PV

SAFETY INSTRUCTIONS

1. WARNING

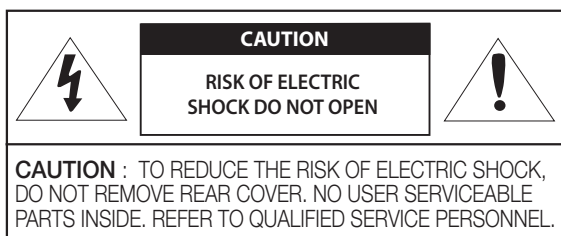
To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

Do not insert any metallic object through the ventilation grills or other openings on the equipment.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

To prevent injury, this apparatus must be securely attached to the Wall/ceiling in accordance with the installation instructions.

2. CAUTION



3. EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage: within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

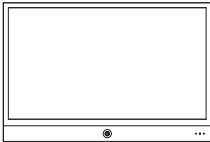
IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT.
METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.

※ This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunderstroke, communication interruption.

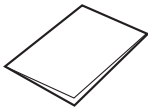
※ Select an installation site that can hold at least 4 times the monitor weight.

PACKAGE CONTENTS

Please check the following contents are included in addition to the main unit.



Public View Monitor



Quick Start Guide



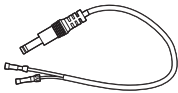
Alarm terminal block



Remote Controller



Battery



Power Inverter Harness

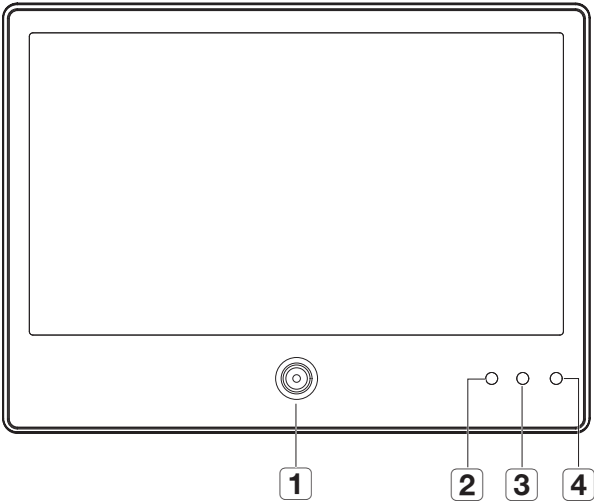
SEPARATELY SOLD PRODUCT

Appearance	Item Name	Description	Model Name
	HPoE Injector	Connects power supply and network	SPO-8315
	Adpater	DC 24V power supply	SPU-60240

The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3bt shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.

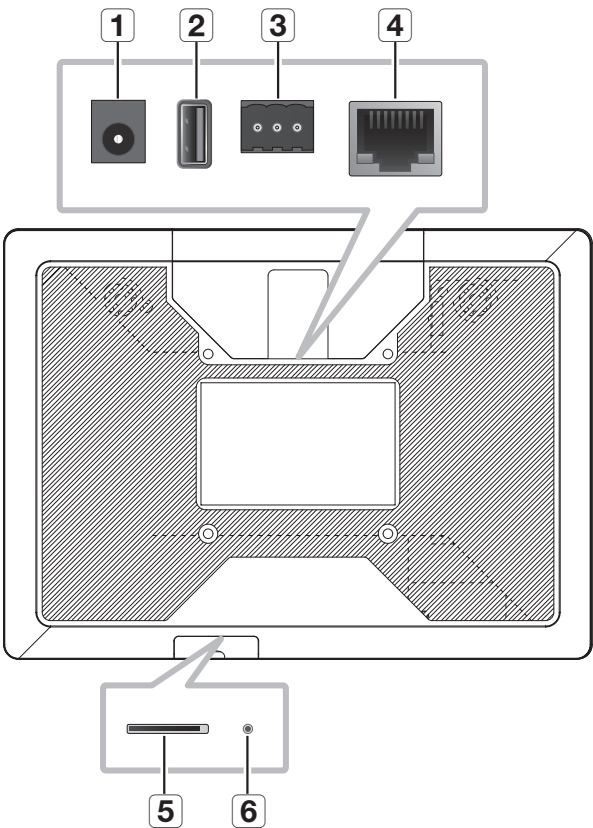
NAMES AND FUNCTIONS OF EACH PART(SMT-1031PV/SMT-1031PVW)

Front



Name		Description of functions
1	Camera Lens	IP camera is installed.
2	ALARM LED	Displayed when an alarm output occurs.
3	LED	Displays the power ON/OFF status. ON – GREEN OFF – RED
4	IR Receiver	Receive IR signal from Remote Controller.

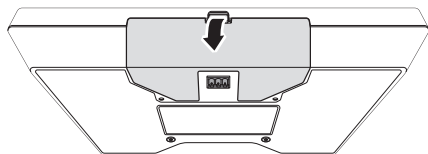
Back



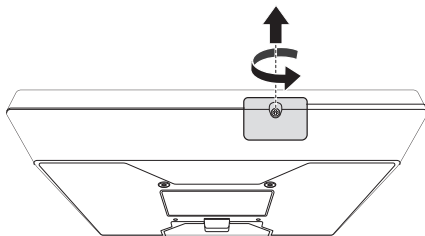
Name		Description of functions
1	24V	This is the DC 24V Power input terminal.
2	USB	Connect the USB Devices for Monitor F/W update.
3	ALARM	ALARM signal input / output
4	HPoE (or PoE+)	Used to connect the HPoE or Ethernet cable for network connection.
5	Micro SD card slot	Compartment for the Micro SD card.
6	RESET	Resets the camera installed in the monitor to its factory default settings. ■ If you forget your password, use the RESET button.



- Remove the terminal cover by pushing the fixing hook, and then remove the SD card cover by loosening the screws counterclockwise.



<Top>

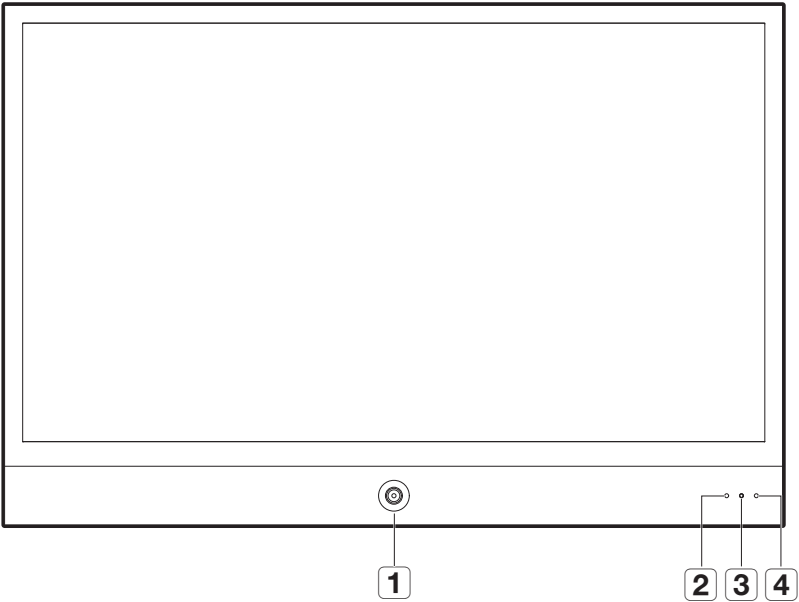


<Bottom>

- This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2".
- This product does not support LLDP.

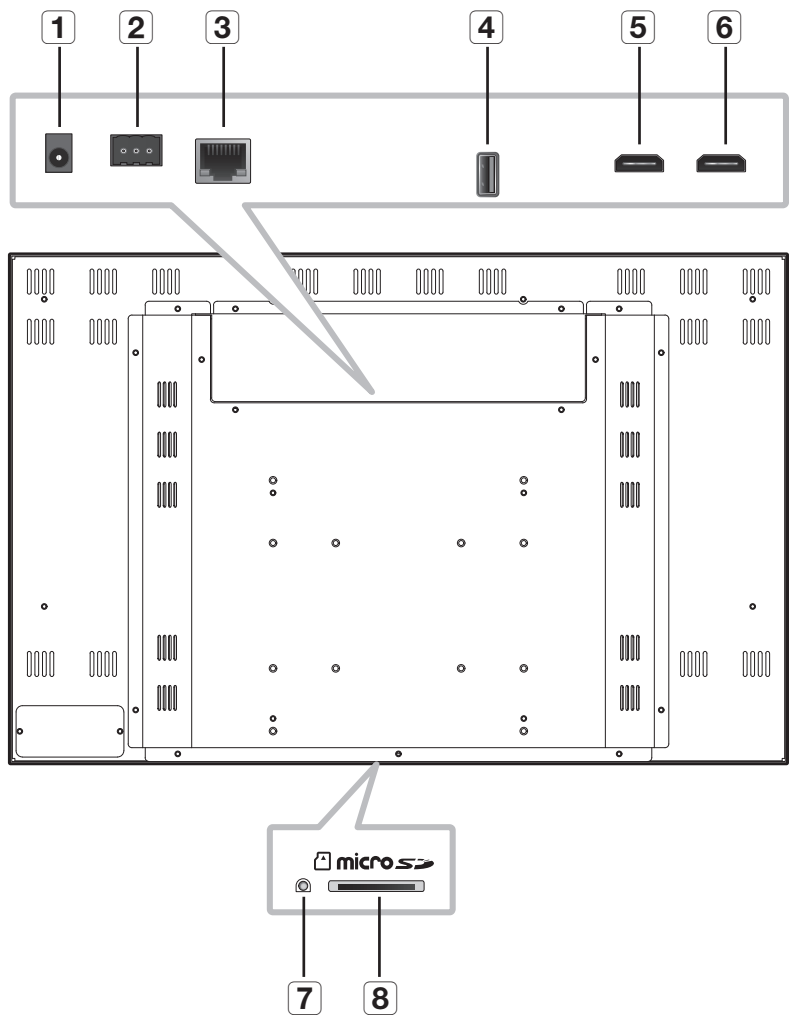
NAMES AND FUNCTIONS OF EACH PART(SMT-2731PV/SMT-3231PV)

Front



Name		Description of functions
1	Camera Lens	IP camera is installed.
2	ALARM LED	Displayed when an alarm output occurs.
3	LED	Displays the power ON/OFF status. ON – GREEN OFF – RED
4	IR Receiver	Receive IR signal from Remote Controller.

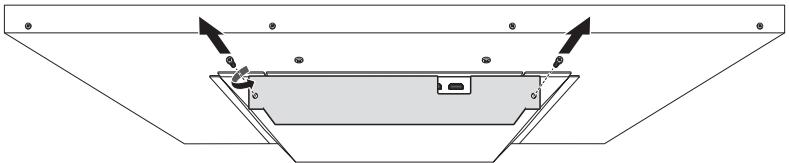
Back



Name		Description of functions
1	24V	This is the DC 24V Power input terminal.
2	ALARM	ALARM signal input / output
3	HPoE	Used to connect the HPoE or Ethernet cable for network connection.
4	USB	Connect the USB Devices for Monitor F/W update.
5	HDMI1 PIP/PBP	HDMI Input terminal for PIP/PBP
6	HDMI2	HDMI Input terminal (not support PIP/PBP in Web viewer)
7	RESET	Resets the camera installed in the monitor to its factory default settings. ■ If you forget your password, use the RESET button.
8	Micro SD card slot	Compartment for the Micro SD card.



- While the monitor outputs video sources from both HDMI1 and HDMI2, audio source is supported from HDMI1.
- The menu button on the remote control works only when the video (Camera, HDMI1, HDMI2) appears on the monitor's main screen (PIP: large screen, PBP: screen on the left).
- If there is no output signal (black screen) on the monitor, press the **[ENTER]** button on the remote control to check and change the input source type.
- Detach the terminal cover by rotating the fastening screw in a counterclockwise direction to loosen it, then connect the cable.



- This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2".
- This product dose not support LLDP.

connecting with other device

THINGS TO CHECK BEFORE CONNECTION

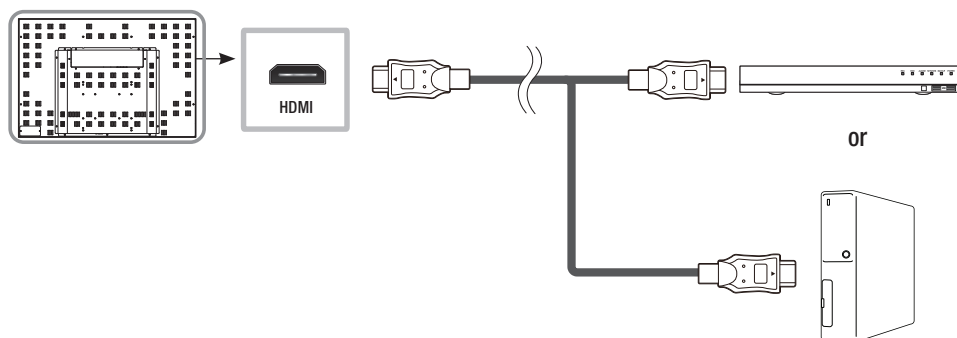
Check before connecting



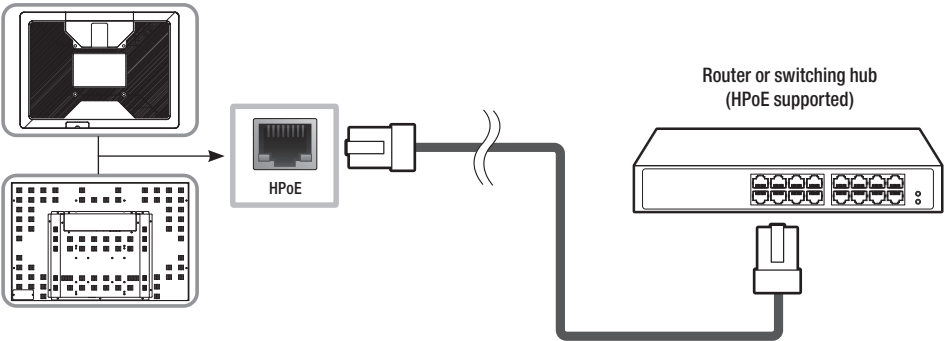
- When connecting, refer to the instruction manual of the product to be connected. The number and position of external devices may differ depending on the product.
- Do not connect the power until all connections are complete. Connecting the power supply during connection may damage the product.
- Check the type of terminal behind the product you want to connect.

CONNECTING WITH EXTERNAL DEVICES

HDMI cable connection method



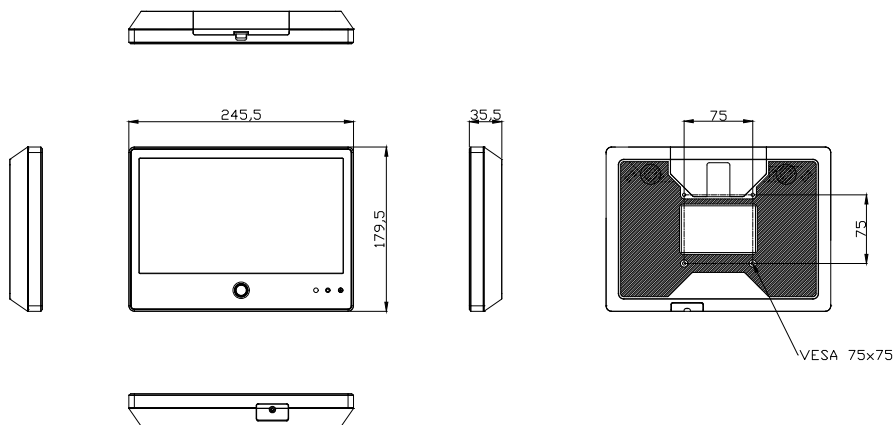
Powering and networking



MECHANICAL

SMT-1031PV/SMT-1031PVW

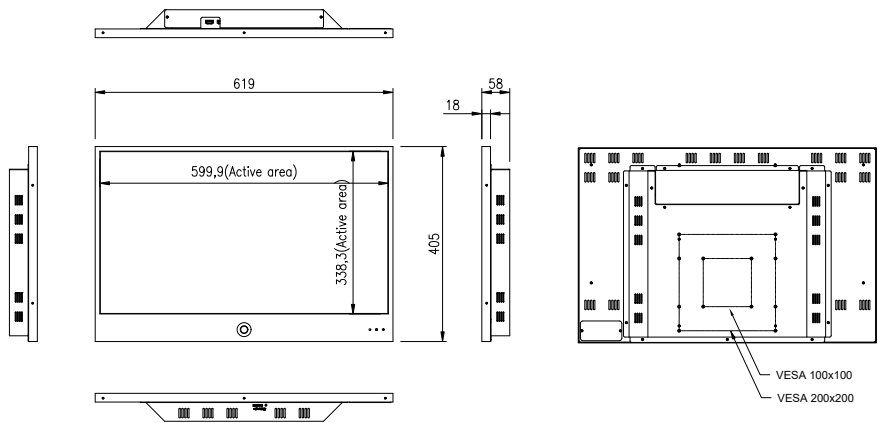
unit : mm



- Since the use of a screw longer than the standard size may cause a problem, VESA standard screws recommended.

SMT-2731PV

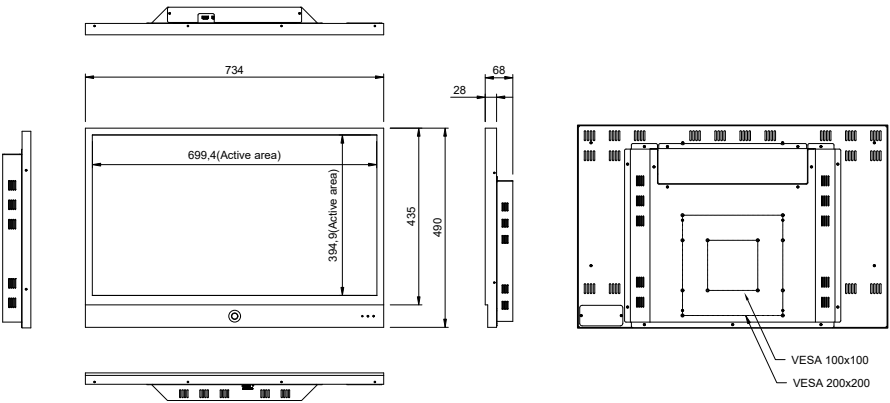
unit : mm



- Since the use of a screw longer than the standard size may cause a problem, VESA standard screws recommended.

SMT-3231PV

unit : mm



- Since the use of a screw longer than the standard size may cause a problem, VESA standard screws recommended.

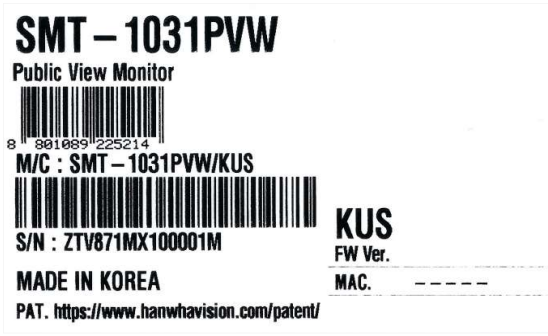
TROUBLESHOOTING

When the following troubles are occurred, follow the trouble shooting.
Before contacting service center.

Problems and Symptoms	Troubleshooting
The screen doesn't show up	• Make sure if the power supply is connected property • Turn on the power. • Select the input signal right for the connected port.
The screen is too light or to dark	• Control the BRIGHTNESS

Label of SMT-1031PVW 24/01/24

2. LABEL

	SMT-1031PVW/KUS	SMT-1031PVW/KEU
Set Label Rating	 Public View Monitor MODEL: SMT-1031PVW INPUT : DC24V --- 0.45A PoE(53V ---) 0.25A M/C: SMT-1031PVW/KUS 2024.01 S/N: ZTCE71MWC00001Y MAC ADDRESS: E4-30-22-E7-CC-34 Canada ICES-003 Class A / Canada NMB-003 Class A Factory ID : 0 Made in Korea Hanwha Vision Co., Ltd	 Public View Monitor MODEL: SMT-1031PVW INPUT : DC24V --- 0.45A PoE(53V ---) 0.25A M/C: SMT-1031PVW/KEU 2024.01 S/N: ZQH71MWA00001N MAC ADDRESS: E4-30-22-E8-4B-01 Canada ICES-003 Class A / Canada NMB-003 Class A Made in Korea Hanwha Vision Co., Ltd
Box Label	 SMT – 1031PVW Public View Monitor 8 801089 225214 M/C : SMT – 1031PVW/KUS S/N : ZTV871MX100001M MADE IN KOREA PAT. https://www.hanwhavision.com/patent/	 SMT – 1031PVW Public View Monitor 8 801089 225207 M/C : SMT – 1031PVW/KEU S/N : ZTV771MX100001V MADE IN KOREA PAT. https://www.hanwhavision.com/patent/
EAN NO	8801089225214	8801089225207

3.Size, Weight

Size	Box (Carton)	395mm(W) x 250mm(H) x 330mm(D)
	Box (Unit)	315mm(W) x 240mm(H) x 125mm(D)
	Set	245.5mm(W) x 179,5mm(H) x 35.5mm(D)
Weight	with packing (Carton) x3	3.9Kg
	with packing (Inner)	1.1Kg
	without packing	0.8Kg

CUSTOMER	
----------	--

SPECIFICATIONS

ITEM	TEKWARE
DESCRIPTION	EP13*13 H 5+5
CODE NO	
MODEL NO	C100P
DATE	2016.06.08

Approved by :

WEIHAI YILIAN ELECTRONICS CO.,LTD

WEIHAI JINGJIJISHUKAIFAQU HUANSHANLUXI DONGSHAN
KOU CUN BEI SHAN DONG CHINA

TEL 0631-5989955

FAX 0631-5985533

SPECIFICATION

PAGE

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PART NAME

TRANS-POWER S/W

MODEL NAME

PART NO

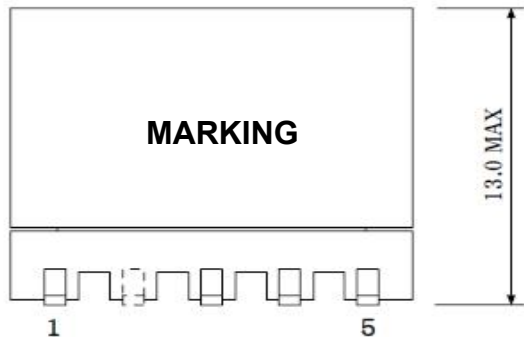
C100P

DESCRIPTION

EP13*13 H 5+5

1. APPEARANCE & DIMENSION (UNIT : mm)

[FRONT VIEW]



* MARKING

C100P

— PART NO

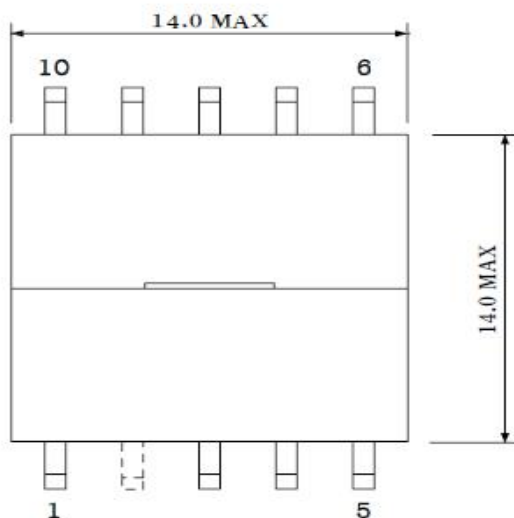
YL YYMM

MONTH

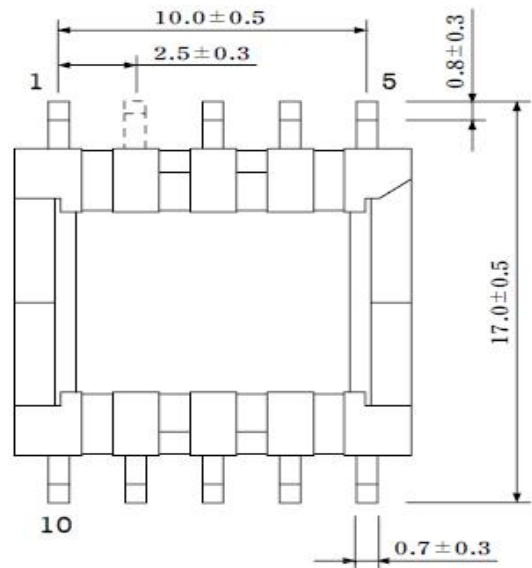
YEAR

MAKER

[TOP VIEW]



[BOTTOM VIEW]
(PIN PITCH)



NO	REVISION	DATE	DRAWN	CHECKED	APPROVED
1			吕燕	沙芳芳	张亚明
2					
3			06.08	06.08	06.08

SPECIFICATION

PAGE

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PART NAME

TRANS-POWER S/W

MODEL NAME

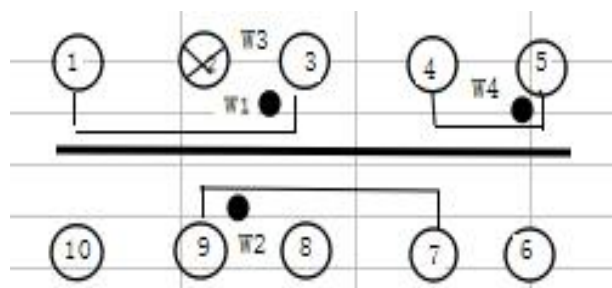
PART NO

C100P

DESCRIPTION

EP13*13 H 5+5

2. WINDING CONNECTION



WINDING	BOTTOM VIEW	C.C.W
REMOVE PIN	#2	
NC.C PIN		
CUT PIN		
TUBE		

3. WINDING SPECIFICATION

NO	FERMINL		WIRE	TURNS	WINDING METHOD	INSULATION				
	S	F				MATEERIAL	T/W	TS	TOP	PIN
W1	3	1	UEWO. 2ø*1	30T	SOLENOID	P. STAPE	25U/8Y	2	×	×
W2	9	7	UEWO. 4ø*1	15T	SOLENOID	P. STAPE	25U/8Y	2	×	×
W3	3	1	UEWO. 2ø*1	30T	SOLENOID	P. STAPE	25U/8Y	1	×	×
W4	5	4	UEWO. 2ø*1	5T	SPACE	P. STAPE	25U/8Y	2	3.0mm	3.0mm
COREFIXINGTAPE						P. STAPE	25U/8Y	3		

NO

REVISION

DATE

DRAWN

CHECKED

APPROVED

1

2

3

吕燕

沙芳芳

张亚明

06.08

06.08

06.08

SPECIFICATION

PAGE

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PART NAME

TRANS -POWER S/W

MODEL NAME

PART NO

C100P

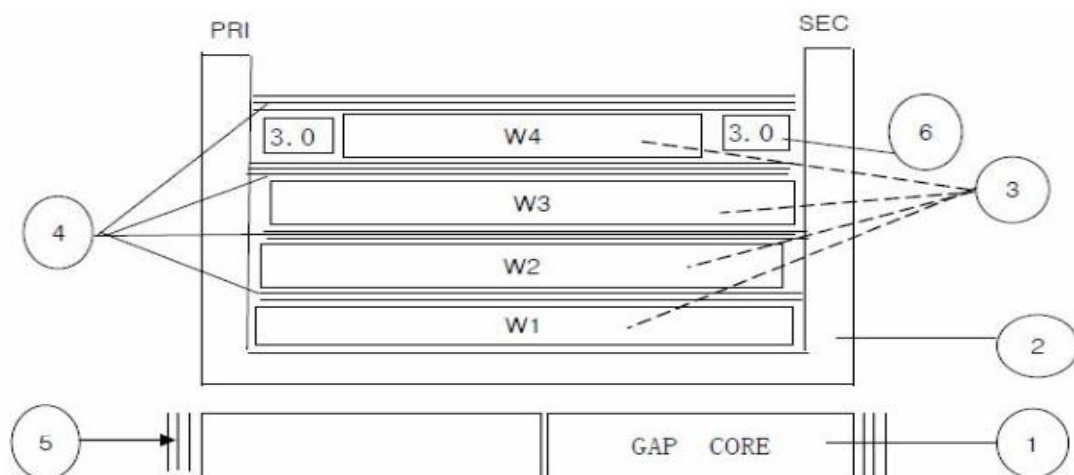
DESCRIPTION

EP13*13 H 5+5

4. ELECTRICAL CHARACTERISTIC

NO	ITEM	TERMINAL	SPECIFICATION	REMARK
1	INDUCTANCE	3 - 1	80UH $\pm 7\%$	LCR METER HP - 4284A at 1KHz, 1Vrms
2	LEAKAGE INDUCTANCE	3 - 1	μ H max	at 1KHz, 1Vrms (SEC. ALL SHORT)
3	DC RESISTANCE	3 - 1	Ω MAX	WHEATSTONE BRIDGE TYPE 2755, TYPE 3220
4	INSULATION RESISTANCE	COIL - COIL COIL - CORE	100M ohm MIN at DC 500V	TOS-8850
5	WITHSTANDING VOLTAGE	PRI - SEC.	AC 3.0KV/ 1MIN	W/I AUTO TESTER (TOS - 8850) CUT OFF CURRENT : 10mA
		CORE - PRI.	AC 1.5KV/ 1MIN	
		CORE - SEC.	AC 1.5KV/ 1MIN	

5. INTERNAL CONSTRUCTION



NO	REVISION	DATE	DRAWN	CHECKED	APPROVED
1			吕燕	沙芳芳	张亚明
2					
3			06.08	06.08	06.08

SPECIFICATION		PAGE	5/8
PART NAME	TRANS-POWER S/W	MODEL NAME	
PART NO	C100P	DESCRIPTION	EP13*13 H 5+5

6. MATERIAL LIST

NO.	I T E M	MATERIAL/DIMENSIONS	MANUFACTRER	REMARK
1	CORE	EP1313 PM-7	ISUCERAMICSCO.LTD.OR EQV	
		EP1313 TP-3	TIANTONGELECTRONICSCO.LTD	
		EP1313 DMR30	DMEGCMAGNETICSCO.LTD	
2	BOBBIN	EP13 H 10P(SMD)	SUMITOMO BAKELITE CO LTD	E41429
3	WIRE	UEW0.4 ϕ UEW0.2 ϕ	JIANGSU DARTONG QINGJIANG M E CO LTD	E237377
5	INSULATION	POLYESTER TAPE	WEIHAI KANGLI TAPE CO LTD	E475896
	TAPE	0.025*8.0Y		
6	CORE FIXING	POLYESTER TAPE		
	TAPE	0.025*8Y		
8	IMPREGATION	VARNISH	JIANGYIN CITY DENG FENG ELECTRCAL MATERIAL CO LTD	E236421
		DVA-1411		

NO	REVISION	DATE	DRAWN	CHECKED	APPROVED
1			吕燕	沙芳芳	张亚明
2					
3			06.08	06.08	06.08

SPECIFICATION

PAGE

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PART NAME

TRANS-POWER S/W

MODEL NAME

PART NO

C100P

DESCRIPTION

EP13*13 H 5+5

BOBBIN

Component - Plastics

E41429

SUMITOMO BAKELITE CO LTD

5-8 HIGASHI-SHINAGAWA 2-CHOME, SHINAGAWA-KU, TOKYO 140-0002 JP

PM-9820

Phenolic (PF), "Sumikon", furnished as pellets, granular material

Color	Min Thk (mm)	Flame Class	HMI	HAI	RTI Elec	RTI Imp	RTI Str
BK	0.16	V-0	-	-	150	150	150
	0.51	V-0	3	1	150	150	150
BN	0.18	V-0	-	-	150	150	150
	0.70	V-0	1	2	150	150	150
	1.5	V-0	0	2	150	150	150
	3.0	V-0	0	2	150	150	150

Comparative Tracking Index (CTI): 3

Dimensional Stability (%): -

High-Voltage Arc Tracking Rate (HVTR): 0

High Volt, Low Current Arc Resis (D495): 5

Dielectric Strength (KV/mm): 14

Volume Resistivity (10ohm-cm): 11

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULL.

Report Date: 1997-11-03

Last Revised: 2003-10-24

Underwriters Laboratories Inc.



WIRE

Magnet Wire - Component

JIANGSU DARTONG QINGJIANG M & E CO LTD

E237377

ECONOMY DEVELOPMENT ZONE 1 DARTONG RD, HUAJIAN,
JIANGSU 223001 CHINA

Mtl Dsg	Mark Dsg	Coat Type	ANSI Type	Temp Class
UEW	(1)	Polyurethane	MW 79-C	155
EIW	(1)	Polyester- imide	MW 75-C	130
			MW30#	180
UEW	UEW/180	Polyurethane	@	200
EI/AIW	(1)	Polyester- imide	MW82	180
		Polyamide- imide	MW35#	200
			MW73#	
PEW	(1)	Polyester	@	220
PEW/NY	(1)	Polyester	MW5	155
		Polyamide	MW76	180
			MW24#	155
UEW/NY	(1)	Polyurethane	MW80	155

8/23/2005

Underwriters Laboratories Inc.

Card 1 of 2

NO

REVISION

DATE

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1

2

3

吕燕

沙芳芳

张亚明

06.08

06.08

06.08

SPECIFICATION

PAGE

7/8

PART NAME

TRANS-POWER S/W

MODEL NAME

PART NO

C100P

DESCRIPTION

EP13*13 H 5+5

TAPE

WEIHAI KANGLI TAPE CO LTD

E475896

No.233 Huoju Road, High-tech Industrial Development Zone

Weihai city, Shandong CHINA

			Optional Ratings		
Cat. No.	Color	Temp (°C)	Flame Retardant+	Sunlight Resistant+	Cold Resistant+
PET film with acrylic adhesive insulating tape					
KL-168	All except clear	130	Yes	No	No
PET film/ Nonwoven cloth tape with acrylic adhesive insulating tape					
KL-188	White	130	Yes	No	No

+ Complies with "Flame Retardant" and/or "Cold Resistant" and/or "Sunlight Resistant" requirements if authorized in the table above and when so marked.

NO

REVISION

DATE

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沙芳芳

张亚明

06.08

06.08

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SPECIFICATION

PAGE

8/8

PART NAME

TRANS -POWER S/W

MODEL NAME

PART NO

C100P

DESCRIPTION

EP13*13 H 5+5

VARNISH

JIANGYIN CITY DENG FENG ELECTRICAL MATERIAL CO LTD
RIVER EAST ZHOU ZHANG TOWN JIANGYIN CITY, JIANSU
214423 CHINA

E236421

Varnish	ANSI Magnet	TP	Varnish Thermal Class C	HC	CE
Dsg	Wire Type				
319-5(a)	MW80	155	—	—	—
	MW76	180	180	—	—
	MW5	155	—	—	—

Marking: Company name and varnish designation on shipping container.

See General Information Preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

NO	REVISION	DATE	DRAWN	CHECKED	APPROVED
1			吕燕	沙芳芳	张亚明
2					
3			06.08	06.08	06.08

SPECIFICATIONS

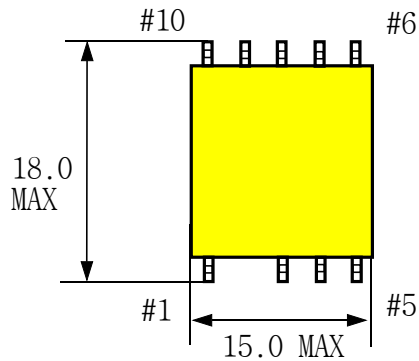
DESCRIPTION	S/W TRANS
SPECIFICATION	
MAKER SPECIFICATION	EP-13
CODE NO.	C100P
MODEL NO.	T-C100P
SPECIAL ARTICLES	

DESIGN	CHECK	APPROVAL
		
		2014.05.22
A TERM OF VALIDITY	YEAR	

REQUEST CUSTOMER	GE & TECH	Mobile : 010-3398-9132 E-mail : whitecolor@naver.com
ADDRESS	4F, 26 Yeongtong-ro 501-ghil, Yeongtong-gu, Suwon-city, Gyeonggi-do, Korea	

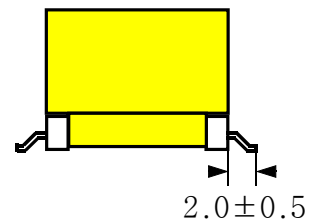
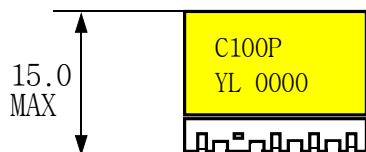
SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

1. APPEARANCE & DIMENSIONS (UNIT:mm)

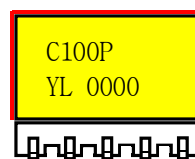
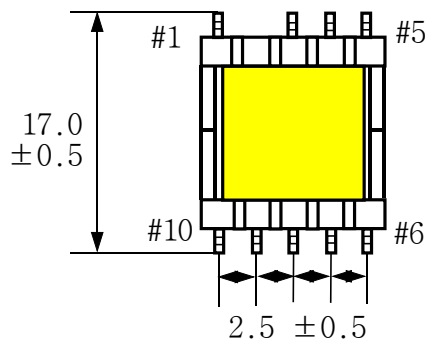


* MARKING (BLACK) *

C100P ← CODE NO
 YL 0000
 YL ← 제조월
 0000 ← 제조년
 ← 제조MAKER



* GAP : P,S FILM 0.2T SIDE
 or CENTER AIR GAP 0.4mm



* 함침 건조 후 CORE COVER
 TAPE(P,S TAPE:0.025tx13.0mm(Y))
 0.75t INSULATION.



GE & TECH

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APPROVAL	CHECK	DESIGN
FILE NO.	DK -	

SPECIFICATIONS

SHEET NO.

OF

DATE

2014. 5. 22.

PART NAME

S/W TRANS

MODEL NAME

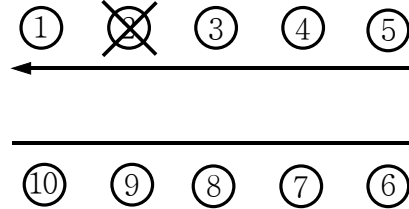
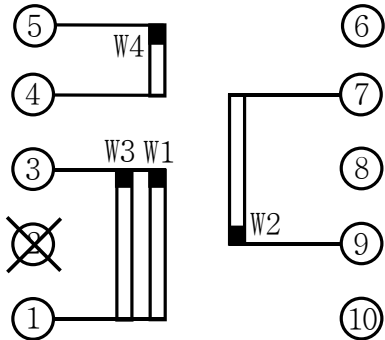
PART NO.

C100P

TYPE NO

EP-13

2. SCHEMATIC DIAGRAM



WINDING

#6~#10 VIEW

C.C.W

BOBBIN INSERT

#1~#5 SIDE

REMOVE PIN

#2

N.C PIN

#6,8,10

CUT PIN

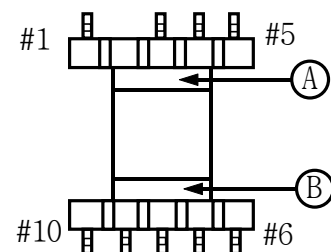
-

3. WINDING SPECIFICATION

WINDING ORDER	SYMBOL	TERMINAL NO.	WIRE	TURNS	WINDING METHOD	REMARKS
W1		3S - 1F	2UEW 0.20 ϕ	30t	SOLENOID WINDING	
W2		9S - 7F	2UEW 0.40 ϕ	15t	SOLENOID WINDING	
W3		3S - 1F	2UEW 0.20 ϕ	30t	SOLENOID WINDING	
W4		5S - 4F	2UEW 0.20 ϕ	5t	SOLENOID WINDING	

4. BARRIER INSULATION

NO	COIL	MATERIALS	LAYERS	THICKNESS(mm) x WIDTH (mm)
1	W4	P.N.W TAPE	A,B PART : 1t	A : 0.25tx3.0mm B : 0.25tx3.0mm

**GE & TECH**

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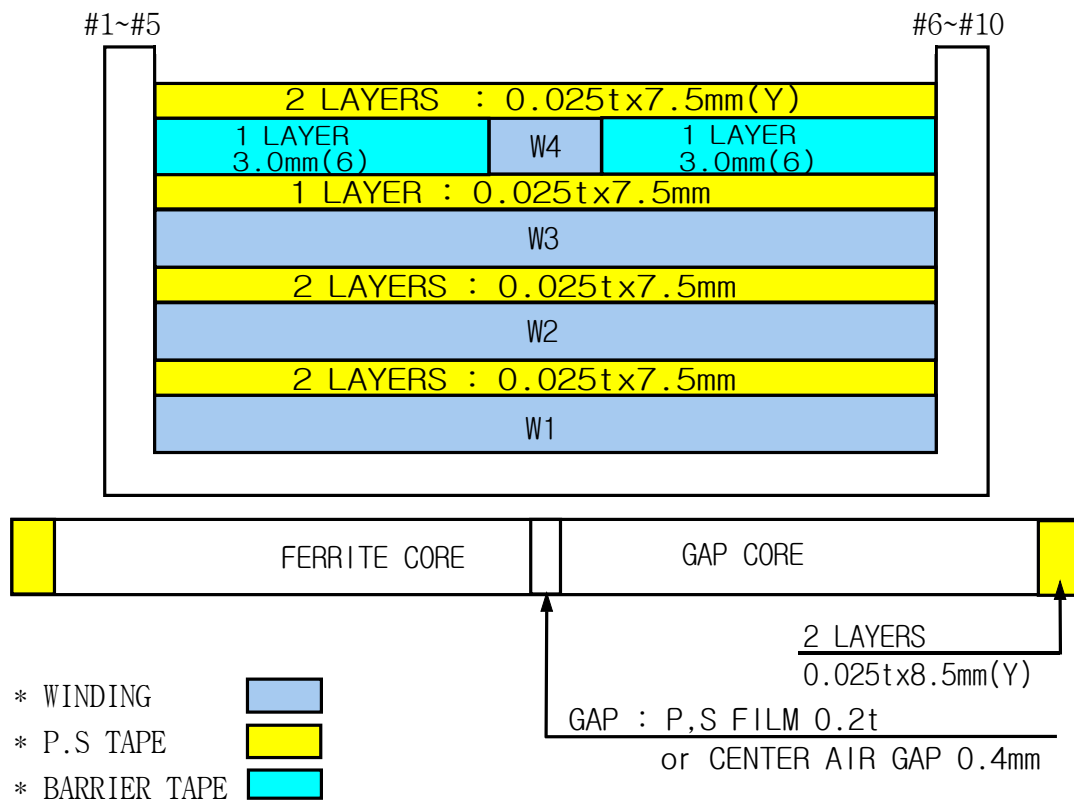
DK -

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

5. INSULATION

NO	COIL	MATERIALS	LAYERS	THICKNESS (mm) x WIDTH (mm)
1	W1 TO W2	POLYESTER FILM TAPE	2t	0.025tx7.5mm
2	W2 TO W3	POLYESTER FILM TAPE	2t	0.025tx7.5mm
3	W3 TO W4	POLYESTER FILM TAPE	1t	0.025tx7.5mm
4	W4 TO CORE	POLYESTER FILM TAPE	2t	0.025tx7.5mm(Y)
5	CORE FIXING	POLYESTER FILM TAPE	2t	0.025tx8.5mm(Y)
6	CORE COVER	POLYESTER FILM TAPE	0.75t	0.025tx13.0mm(Y)

6. INTERNAL CONSTRUCTION



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FILE NO.	DK -	

CUSTOMER : Tekware CO.,LTD.

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

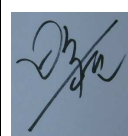
7.ELECTRICAL CHARACTERISTIC

NO	CLOSURE	TERMINAL	ELECTRICAL CHARACTERISTICS	TOLERANCE	CONDITION
1	INDUCTANCE	3 - 1	80.0 uH	± 7%	LCR-METER at 1KHz, 1Vrms
2	DC RESISTANCE	3 - 1	0.23 Ω	MAX.	OHM METER
3	LAYER SHORT	AC 1.4KV, 60Hz.			
4	INSULATION RESISTANCE	DC 500V, 100M OHM MIN. (COIL TO COIL, ANY COIL TO CORE)			
5	WITHSTAND VOLTAGE	AC 1.0KV, 1 MINUTE. (P COIL TO S COIL) AC 1.0KV, 1 MINUTE. (ANY COIL TO CORE)			



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FILE NO.	DK -	

MATERIALS LIST

SHEET NO : OF

PART NAME : S/W TRANS

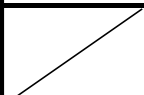
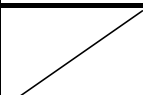
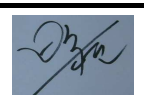
DATE : 2014. 5. 22.

PART NO : C100P

TYPE NO : EP-13

MODEL NO. :

NO	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF MATERIAL	UL No.
1	CORE	EP-13 PL-7	SAM WHA ELECTRONICS CO.,LTD.	
		EP-13 DMR40	ZHEJIANG DONGYANG MAGNETIC ENTERPRISE GROUP CO.	
		EP-13 HE4	RUYUAN DONGYANGGUANG MAGNETICS MATERIALS CO.,LTD.	
		EP-13 KP4 or eqv.	SHANGHAI KANGSHUN MAGNETIC COMPONENT FACTORY. or eqv.	
2	BOBBIN	PHENOLIC (PF2736) PHENOLIC (T375J) PHENOLIC(PM-8375,PM-9820)	MOMENTIVE SPECIALTY CHEMICALS GMH CHANG CHUN PLASTICS CO.,LTD. SUMITOMO BAKELITE CO.,LTD.	E61040 E59481 E41429
3	WIRE	POLYURETHANE (MW75) 2UEW 0.20 ø 2UEW 0.40 ø	DONG YANG ELECTRONICS IND.CO.,LTD.	E102761
			SAM JIN WIRE CO.,LTD.	E207120
			LIAONING DONGGANG MAGNET WIRE CO., LTD.	E229247
			CNI CABLE CO.,LTD. or eqv.	E210918
4	INSULATION TAPE	POLYESTER FILM TAPE 0.025t x 7.5mm 0.025t x 13.0mm	METAL LINE CO.,LTD. (800(a))	E162848
			DUCK SUNG HITECH CO.,LTD. (DTS-204&)	E105147
5	CORE FIXING TAPE	POLYESTER FILM TAPE 0.025t x 8.5mm	JINGJIANG YAHUA PRESSURE SENSITIVE CLUEFTY (CT) or eqv.	E165111
6	BARRIER TAPE	POLYESTER FILM TAPE 0.25t x 3.0mm	TAE HWA INDUSTRIAL CO.,(H-5673)	E92677
			A-TECH CO.,LTD.(BK-402)	E142633
			JINGJIANG JINGYI ADEHESIVE CO.,LTD.(WF-310) or eqv.	E246950
7	VARNISH	SR-337 DVB-2085 J13(a) or eqv.	SE KYE CHEMICAL CO., NOROO PAINT & COATINGS CO.,LTD. JIANGYIN CHUANGYI SPECIAL INSULATION MATERIAL CO., LTD. or eqv.	
8	INK	SFSM(BLACK) or eqv.	DAE HYUN CO. or eqv.	

DESIGNED BY	CHECKED BY	APPROVED BY
		

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

MOMENTIVE SPECIALTY CHEMICALS GMBH
POSTFACH 7154
58609 ISELOHN, GERMANY

E61040

Material Dsg	Color	Min. Thk mm	UL94 Flame Class	Elec	RTI Mech With Imp	W/o str	H W I	H A I	H V T R	D 4 5	C T I
Phenolic(PF_, "Bakelite"R" . .	BK	0.46	V-0	150	150	150	-	-	0	5	3
PF 2736(a)(b)	NC,GN,BK	0.81	V-0	150	150	150	0	2	-	-	-
	ALL	0.81	V-0	150	150	150	0	2	-	-	-
		1.5	V-0	150	150	150	0	2	-	-	-
		3.0	V-0	150	150	150	0	2	-	-	-

(a)-Optional Suffix "H"

(b)-Grabe designation may be followed by a four digit number representing color,P or S indicating type of molding, a single digit representing slight color variation.

CHANG CHUN PLASTICS CO LTD

E59481

7TH FL 301 SONGKIANG RD TAIPEI, TAIWAN

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	RTI Elec	Mech Imp	Str	H V T R	D 4 5	C T I
Phenolic Molding Compound (PMC), "LONGLITE", furnished as granular material.	BK,BN	0.45	V-0	-	-	150	150	150	4	5	3
T375J		0.79	V-0	1	0	150	150	150			
		1.58	V-0	0	0	150	150	150			
		3.17	V-0	0	0	150	150	150			

SUMITOMO BAKELITE CO LTD
5-8 HIGASHI-SHINAGAWA 2-CHOME
SHINAGAWA-KU
TOKYO, 140-0002 JAPAN

E41429

		Min. Thk	Flame Class	H W	H A	RTI Elec			H V	D 4	C
		mm	Class	I	I	Mech			T R	9 5	T I
Material Dsg	Color	mm	Class	I	I	Imp	Str		R		
Phenolic (PF), "SUMIKON", furnished as pellets or granular.											
PM-2837	BK	0.49	V-0	-	-	150	150	150			
PM-8375	BK	0.49	V-0	-	-	150	150	150			3
		3.0	V-0	-	-	150	150	150			
PM-9820	BK	0.16	V-0	-	-	150	150	150	0	5	3
		0.51	V-0	3	1	150	150	150			
	BN	0.18	V-0	-	-	150	150	150			
		0.70	V-0	1	2	150	150	150			
		1.5	V-0	0	2	150	150	150			
		3.0	V-0	0	2	150	150	150			



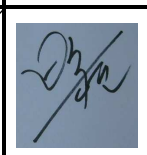
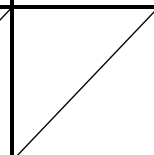
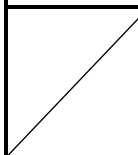
GE & TECH

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DESIGN

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APPROVAL



FILE NO.

CUSTOMER : Tekware CO.,LTD.

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

DONG YANG ELECTRONICS IND CO LTD
660-1 BANWOL-RI TAIAN-EUB Hwasung-Gun,
KYUNGGI-DO KOREA

E102761

Mtl Dsg	BC	Coat Typ	ANSI Type	TI
AI-EIW	Polyester-imide	Polyamide-imide	MW35	200
EIW	Polyester-imide		MW30	180
NY-EIW	Polyester-amide-imide	Polyamide	MW76	180
NY-PEW	Polyester	Polyamide	MW24	155
NY-PEW(F)	Polyester	Polyamide	MW24	155
NY-UEW	Polyurethane	Polyamide	MW28	130
UEW	Polyurethane	-	MW75	130

Marking: Company name or "E102761" and material designation or marked designation on package or reel, and Recognized Component Mark.

SAM JIN WIRE CO LTD
505-1 DOUKAM-LI JUCHON-MYON KIMHE
KYUNGSANG-NAMDO, KOREA

E207120

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
UEW	UEW	Polyurethane		None	MW79	155
					MW75	130@
PEW	PEW	Polyester		None	MW72	180
					MW5	155@
UEW(AL)	UEW	Polyurethane		None	-	155@
					-	130@
PEW(AL)	PEW	Polyester		None	-	180@
					-	155@

(@)-Additional consideration is needed before its use in system's thermal aging.

Marking: Company name, material designation or marked designation on package or reel, and Recognized Component Mark.



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DESIGN	CHECK	APPROVAL
FILE NO.		

CUSTOMER : Tekware CO.,LTD.

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

LIAONING DONGGANG MAGNET WIRE CO LTD
BEIJINGZI TOWN
DONGGANG,LIAONING 118305 CHINA

E229247

Mtl	Mark	Coat Typ		ANSI	Temp
Dsg	Dsg	BC	OC	Type	Class
xUEW H-N,	(1)	Polyurethane	Polyamide	MW83	180
xUEW F-N,				MW80#	155
xUEW-N				MW28#	130
xPEW C-N,	(1)	Polyester	Nylon	MW35	200
xPEW H-N,				MW76#	180
xPEWF-N,				MW24#	155
xPEW-N				@#	130
xUEWF or QA-x/155,	(1)	Polyurethane	-	MW79	155
xUEW or QA-x/130				MW75#	130

(1)-Marked designations are the same as the material designations.

#-Additional consideration is needed before this magnet wire is used in an insulation system thermal aging program.

x-Prefix 0,1,2 or 3 may be added to indicate coating thickness.

@-Non-ANSI type.

CNI CABLE CO LTD

E210918

312-16 DEUKSAN-DONG
ASAN-SI,CHUNGCHONGNAM-DO 336-120 REPUBLIC OF KOREA

Mtl	Mark	Coat Typ		ANSI	Temp
Dsg	Dsg	BC	OC	Type	Class
UEW	(1)	Polyurethane	None	MW79	155
				MW75	130#
PEW	(1)	Polyester	None	MW30	180
				MW5	155#

DUCK SUNG HITECH CO LTD
225-2 SHINNEUNG-RI SEOUN-MYEON
ANSEONG-SI GYEONGGI-DO 456-850 REPUBLIC OF KOREA

E105147

PET(Polyethylene-Terapthalate) film insulating tape,acrylic adhesive, Cat. No. DTS-204B&, rated 130C.

PET(Polyethylene-Terapthalate) film insulating tape,acrylic adhesive, Cat. No. DTS-204k ^, rated 130C.

PET(Polyethylene-Terapthalate) film insulating tape,acrylic adhesive, Cat. No. DTS 280A., rated 130C,Cat.No.DTS 204&,rated 130C.



GE & TECH

OFFICE
 4F,26 Yeongtong-ro,501-ghil,Yeongtong-gu,Suwon-city,Gyeonggi-do,
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 E-mail : whitecolor@naver.com

DESIGN	CHECK	APPROVAL
FILE NO.		

CUSTOMER : Tekware CO.,LTD.

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

METAL LINE CO LTD

E162848

330-1 BUHANG-RI SILCHON-EUP

GWANGJU-SI, GYEONGGI-DO 464-874 REPUBLIC OF KOREA

Reinforced polyester (PET) tape with acrylic adhesive, Cat. No. 800BT, rated 130C.

Polyester (PET) tape with acrylic adhesive, Cat. No. 800(a), rated 130 C.

Polyester (PET) tape with acrylic adhesive, Cat. No. 8000, rated 130 C.

Flame Retardant Al foil tape with acrylic adhesive, Cat. No. HD-110\$.

Flame Retardant Ni coated woven polyester fiber tape with acrylic adhesive, Cat. No. HD-14\$.

(a) May be marked: "Film side CTI Performance Level Category PLC=0, Voltage 600+, per UL 746A/ASTM D 3638" and/or "Film side CTI 600 + per IEC112, First Edition (1979), CTI Material Group I" or equivalent.

\$ - Markings shall include "Flame Retardant".

INGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD
SOUTHWEST AROUND RD JINGJIANG
JIANGSU 214500, CHINA

E165111

Copper foil tape, Cat. No. CP-3002*.

Nonwoven cloth/polyethylene terephthalate film tape, Cat. No. WF with suffixes, rated 130 C*(c) (h).

Polimide film tape, Cat. No. PF with suffixes, rated 180 C* (d) (g).

Polyethylene terephthalate film tape, Cat. No. CT with suffixes, yellow color, rated 130 C*(c) (e) (g).

Polyethylene terephthalate film tape, Cat. No. CT with suffixes, all colors except yellow, rated 130 C(b)(f) (g).

Polyethylene terephthalate film tape, Cat. No. PZ with additional suffixes, rated 130 C*(b).

*Complies with flame retardant requirements when so marked.

(b)Comparative Tracking Index (CTI) performance indicates material Group IIIa, PLC=2, CTI equal to or greater than 250 but less than 400 v.

(c)Comparative Tracking Index (CTI) performance indicates material Group I, PLC=0, CTI equal to or greater than 600 v.

(d)Comparative Tracking Index (CTI) performance indicates material Group IIIb, PLC=4, CTI equal to or greater than 100 v but less than 175v.

(e) - Yellow color only

(f) - All colors except yellow

(g) - The CTI test was conducted per IEC 112, 3rd Edition 1979 and the assigned level is based on the testing of both film and adhesive sides.

(h) - The CTI test was conducted per IEC 60112, 4th Edition 2003 and the assigned level is based on the testing of both film and adhesive sides.

Marking: Company name or E165111 and catalog designation printed on the carton, wrapper or core.



GE & TECH

OFFICE
4F, 26 Yeongtong-ro, 501-ghil, Yeongtong-gu, Suwon-city, Gyeonggi-do,
Korea
Mobile : 010-3398-9132
E-mail : whitecolor@naver.com

DESIGN	CHECK	APPROVAL
FILE NO.		

CUSTOMER : Tekware CO.,LTD.

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 04. 28.
PART NAME	S/W TRANS		
PART NO.	C100P	TYPE NO	EP-13

TAE HWA INDUSTRIAL CO LTD **E92677**
323-80 GUNHA-RI WOULD-GOT-MYUN
KIMPO-CITY,KYUNGGI-DO 415-870 REPUBLIC OF KOREA
 Flame retardant fiberglass cloth tape, Cat. Nos. TH-GC012, H-2715.
 Flame retardant acetate cloth tape, Cat. No. 6701.
 Polyester(PET) film insulating tapes with polyester non-woven fiber reinforcement and acrylic adhesive,cat.nos.H-56730,H-5673a,white color,rotd 130°C.

Marking: Company name or file number "E92677" and catalog number printed on carton, wrapper and/or core.

A-TECH CO LTD **E142633**
443 KA CHANG-RI BAKAM-MYUN
YONGIN-SHI,KYONGGI-DO 449-860 REPUBLIC OF KOREA

Glass cloth insulating tape,silicone based adhesive, Cat. No. BK-201*, rated 190 C,white color.
Polyester insulating tape,natural rubber with petro resin, Cat. No. BK-402 rated 130 C.
 Acetate cloth insulating tape,acrylic adhesive,Cat.no.bk-401*,rated 105 C,white color.
 Polyester,acrylic adhesive,Cat.no.bk-404,rated 105 C,all colors.

Marking: Company name and catalog designation printed on core or package.

JIANGYIN CHUANGYI SPECIAL INSULATION MATERIAL CO LTD **E315314**
 15 GUANGMING RD
 ZHOZHOU TOWN
 JIANGYIN, JIANGSU 214423 CHINA

Varnish Dsg	ANSI Magnet Wire Type	Varnish Thermal Class C		
		TP	HC	CE
J13(a)	MW80	155	—	—

Marking: Company name and varnish designation on shipping container.
 Last Updated on 2009-03-18

SE KYE CHEMICAL CO LTD **E257443**
 360 GUIJEON-RI
 TONGJIN-EUP
 KIMPO-SI, KYUNGGI-DO 415-862 REPUBLIC OF KOREA

Varnish Dsg	ANSI Magnet Wire Type	Varnish Thermal Class C		
		TP	HC	CE
SR-337(#)	MW75	130	130	—

- May be followed by 1 or 2 suffix numeric and /or alpha characters to denote viscosity change accomplished via solvents due to production tolerance.



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 Korea
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DESIGN	CHECK	APPROVAL
FILE NO.	DK -	

CUSTOMER : Tekware CO.,LTD.

SPECIFICATIONS		SHEET NO.	OF
		DATE	2014. 5. 22.
PART NAME	S/W TRANS	MODEL NAME	
PART NO.	C100P	TYPE NO	EP-13

NOROO PAINT & COATINGS CO LTD

E93947

615 PAKDAL-DONG

ANYANG-SHI, KYONGGI-DO 430-030 REPUBLIC OF KOREA

Varnish Dsg	ANSI Magnet Wire Type	Varnish Thermal Class C		
		TP	HC	CE
DVB-2152(#)	MW35C	200	200	—
DVB-2413	MW24	155	155	—
DVB-2713	MW24	155	155	—
	MW16	200	180	—
DVA-1411	MW24	155	180	—
DVA-1422	MW24	155	155	—
DVB-2148L	MW5	155	155	—
	MW24	155	155	—
DVB-2152(#)	MW5	155	155	—
	MW24	155	155	—
DVB-2158(S)	MW35C	220	—	—
DVB-2148L(*)	MW5	155	155	—
DVB-2085(*)	MW28	130	130	—
DVB-2177(@)	MW5	180	200	—

(#) = May be filled with 0 -30 percent silica.

(S) = May be filled with 0 - 30 percent silica.

(*) = To be followed by 1 or 2 numbers and/or 1 or 2 letters.

(@) = May be followed by suffix XX in which XX represents percentage of solid content.

Marking: Company name and varnish designation on shipping container.



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DESIGN	CHECK	APPROVAL
FILE NO.		

INSPECTION REPORT

PART NO	C100P	DATE OF MEASUREMENT	2014. 05. 22.
PART NAME	S/W TRANS	TEMPERATURE	20 °C 68 %
TYPE OF SET		TESTING INSTRUMENT	LCR METER OHM METER
TYPE NO	EP-13		
SAMPLE QUANTITY		APPROVED BY	
CUSTOMER	Tekware	CHECKED BY	
MANUFACTURER	GE&Tech	INSPECTED BY	

ITEM	L					DCR						
	3 - 1					3 - 1						
STD	80.0uH ± 7%					0.23Ω MAX						
1	81.2					0.182						
2	82.0					0.183						
3	81.2					0.182						
4	81.7					0.182						
5	81.7					0.183						
6												
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17												
18												
19												
20												
$\overline{X}$												
MIN												
MAX												

REMARKS

* INDUCTANCE : at 1KHz, 1Vrms

