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Issued: 2019-06-18 Revised: 2020-09-14

FOLLOW-UP SERVICE PROCEDURE (TYPE R)

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

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant:354116 (Party Site)Applicant:C-PRO ELECTRONICS CO LTD(352679-001)5F 214 Galmachi-ro Jungwon-guSeongnam-si Gyeonggi-do 13216 KOREA

2282350 (Party Site) Listee: Digital Watchdog (E507366) 16220 Bloomfield Avenue Cerritos CA 90703

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 Co. 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.

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Issued: 2019-06-18 Revised: 2020-09-14

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following web-site: http://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 http://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 Co. 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 Co. 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: <u>http://services.ul.com/fus-service-terms</u>. 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.

Bruce A. Mahrenholz Director Conformity Assessment Programs (CPO) UL LLC LOCATION

1893743 (Party Site) C-PRO VIETNAM COMPANY LIMITED Dong Tho Industrial Cluster Dong Tho commune Yen Phong District Bac Ninh province VIETNAM Factory ID: CPROVN UL Contracting Party for above site is: UL GmbH

354116 (Party Site) (352679-001) C-PRO ELECTRONICS CO LTD 5F 214 Galmachi-ro Jungwon-gu Seongnam-si Gyeonggi-do 13216 KOREA Factory ID: CPROKR UL Contracting Party for above site is: UL GmbH



ML FILE NO. E472318

Issued: 2020-07-15 Revised: 2020-07-16

This page replaces the Multiple Listing Correlation Sheet between files E472318 and E350024, Vol X4.

WITHDRAWN

File		Volume	Page	Date:
E350024	Index	X4	1	17-Dec-20

<u>Index</u>

Product Type	Model/Type Reference	Report Reference #	Status
Outdoor Vandal IP	DWC-MF4Wi (a), DWC-	E350024-A6001-UL	
Camera	MV84WiA, DWC-MF4Wi	L330024-A0001-0L	
Gamera	(a)C(b), DWC-MV84WiAC(b)		
	(a) can be any alphanumeric		
	(b) can be any alphanumeric		
Outdoor Bullet IP	DWC-PB6M4T	E350024-A6002-UL	
Camera		L330024-A0002-0L	
-	DWC-PVF5M1TIR, DWC-	E350024-A6003-UL	
IP Camera	PVF5M1TIRC(a).	E330024-A0003-0E	
Bullet IP Camera	DWC-MB44WiA, DWC-	E350024-A6004-UL	
	MB44WiAC(a), DWC-	E350024-A0004-0L	
	MB44WIAC(a), DWC- MB44Wi650, DWC-		
	MB44Wi650C(a), DWC-		
	MB44iALPR, DWC-		
	MB44IAEFR, DWC- MB44LPRC(a)		
	(a) - Presence/Capacity of SD		
	Card (can be any alphanumeric)		
Outdoor Vandal DOME	DWC-MV44WiA(a), DWC-	E350024-A6005-UL	
IP Camera	MV44WA(a)	L330024-A0003-0L	
	101 V 44 V A(a)		
	(a) can be Blank or B (as		
	enclosure color).		
Outdoor Vandal DOME	DWC-PVX16W, DWC-	E350024-A6006-UL	
IP Camera	PVX16W4		
Outdoor Bullet IP	DWC-MB721M4TIR, DWC-	E350024-A6007-UL	
Camera	MB721M6TIR, DWC-		
	MB721M8TIR, DWC-		
	MB721M4TIRDMP, DWC-		
	MB721M6TIRDMP, DWC-		
	MB721M8TIRDMP		
Vandal IP Camera	DWC-PZ21M69T	E350024-A6008-UL	
IP CAMERA	DWC-MVA5Wi(a)T, DWC-	E350024-A6031-UL	
	MPVA5Wi(a)T		
IP CAMERA	DWC-MVA2Wi(a)T, DWC-	E350024-A6033-UL	
	MPVA2Wi(a)T		
IP CAMERA	DWC-MV72Di(a)T(b)	E350024-A6041-UL	
IP CAMERA	DWC-MD72Di(a)T(b)	E350024-A6042-UL	
IP CAMERA	DWC-MB62DiVT	E350024-A6043-UL	
IP CAMERA	DWC-MV82DiVT(a)	E350024-A6045-UL	
IP CAMERA	DWC-MV45WiAT(a), DWC-	E350024-A6046-UL	
	MPV45WiAT(a)		

UL TEST REPORT AND PROCEDURE

Applicant Name and Address:	C-PRO ELECTRONICS CO LTD 5F 214 GALMACHI-RO JUNGWON-GU SEONGNAM-SI GYEONGGI-DO 13216 KOREA				
Rating:	12 Vdc, 0.69 A or PoE(802.3af), 0.22 A				
Model:	DWC-MV45WiAT(a), DWC-MPV45WiAT(a)				
Product:	IP CAMERA				
Complementary CCN:	N/A				
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)				
Certification Type:	Listing				
	CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, Issued: 2019-12-13 (Audio/video, information and communication technology equipment Part 1: Safety requirements)				
Standard:	UL 62368-1, 3rd Ed, Issued: 2019-12-13 (Audio/video, information and communication technology equipment Part 1: Safety requirements)				

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

IP CAMERA has been designed for INDOOR or OUTDOOR use and integrated a bracket for wall or ceiling mount.

It is a commercial equipment supplied from adapter or PoE (Power over Ethernet) and installed by instructed personnel.

Model Differences

Basic model is DWC-MV45WiAT(a).

Model DWC-MPV45WiAT(a) is identical to basic model except for model designation.

The symbol (a) can be Alphanumeric, hyphen or blank not affecting safety.

Test Item Particulars

end product
Instructed person
not mains connected: ES1
None
12Vdc, PoE (Power over Ethernet)
N/A
wall/ceiling-mounted
OVCI
Class III
N/A
PD 2
50 Outdoor: minimum -20
IP 68
not AC mains
2000 m or less
2000 m or less
1.27

- □ The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 50°C
- □ Mains supply tolerance (%) or absolute mains supply : No direct connection
- □ The Risk Group of a lamp or lamp system (including LEDs) is : RG 1
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual
- □ The outdoor equipment/enclosure was evaluated for use in an ambient temperature range of: -20 °C to +50 °C

Additional Information

4789627721

- Continuous operation with LED on.

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 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)
Outdoor enclosure type	Type 3, 3X, 3S, 3SX, 4, 4X, 6, 6P, "Raintight", "Rainproof", "Watertight", "Corrosion Resistant", "Dusttight" Enclosure
Hard Copy	 A. ATTENTION or IMPORTANT B. Please check 'Manuals' from out website, before connecting to the supply. C. Company website URL (https://www.~~)
Website Manual-1	This product is intended to be supplied by a Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and 12 Vdc, 0.69 A or PoE(802.3af), 0.22 A.
Website Manual-2	The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3.af shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL 60950-1 or PS2 as defined in UL 62368-1.
Special Instructions to UL Repr N/A	resentative

BD1.0	Т	TABLE: Production-Line Testing Requirements						
BD1.1	Electric Strength	Test Special Const	tructions – Refe	to Generic Ins	pection Ins	structions,		
		Part AC	for further infor	mation.	-			
Model	Component	Removable parts	Test probe	Test V rms	Test V	Test		
			location		dc	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 model	All model						
BD1.3	Electric Strength	n Test Exemptions -	 This test is not 	t required for th	e following	g models:		
	All model							
BD1.4	Electric Strength	Test Component E	Exemptions – Th	e following soli	d-state cor	nponents		
		cted from the rema						
			test.		-			
	All model							

BE1.0	3E1.0 Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics
N/A	N/A	N/A	N/A	N/A	N/A

Issue Date: 2020-12-17

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Report Reference #

E350024-A6046-UL

4.1.2	TABLE: List of critic	cal components				Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Product Category CCN(s)	Mark(s) of conformity	Supplement ID
Metal enclosure	Interchangeable	Interchangeable	Aluminum alloy, see enclosure for dimension.	-	-	
Plastic enclosure	SABIC INNOVATIVE PLASTICS B V	143R(f1)	Min. 1.50 mm thickness, rated HB, 130 deg. C, see enclosure for dimension.	QMFZ2/8 (E45329)	UL/cUL	
Internal Plastic	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
Gasket for enclosures	DOW TORAY CO., LTD.	RBB-6670-70	HB, Min. 0.81 mm, 150 deg.C, Gasket Test was conducted under E350024-A6002.	QMFZ2 (E55519)	UL	
Transformer (TRANS2) in PoE board	BOB TECH	CP1312-B	130 deg. C, see enclosure for more detail.	-	-	
Transformer (TRANS2) in PoE board - Alternate	SH.E Co., Ltd.	CP1312-B	130 deg. C, see enclosure for more detail.	-	-	
Opto-coupler (PC5) in PoE board	EVERLIGHT ELECTRONICS CO LTD	EL357N	Double protection optical isolators, providing 3750 Vac isolation	FPQU2	UL (E214129)	
Opto-coupler (PC5) in PoE board - Alternate	TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION	P181 (f), (f) - May be followed by A through L, may be prefixed by TL.	Single protection optical isolators, providing 3750 Vac isolation	FPQU2/8	UL (E67349)	
Rechargeable lithium coin battery (BT1)	SEIKO INSTRUMENTS INC MICRO- ENERGY DIV	MS621FE	Max. Charging Current: 300 mA, Max. Temperature 60 deg. C	BBCV2	UL (MH15628)	

Issue Date: 2020-12-17 Page 6 of 8 Report Reference

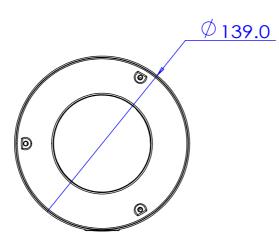
Internal wiring Interchangeable Interchangeable Marked VW-1, Min. 80 AVLV2 UL deg.C, 30 V UL Thermal pad Interchangeable Interchangeable Min HB, Min 100 deg.C QMFZ2 ZPMV2 PWB V-0, 130 deg.C UL Interchangeable Interchangeable Outdoor Use, Max Outdoor Label Interchangeable Interchangeable PGDQ2or PGJI2 UL Temp 100 deg. C, Min Temp-40 deg.C LED HELIO **XPEIFR-L2** Vf: 2.6 Vdc (Max.), Optoelectronics wavelength: 850 nm . Corp. (typical)

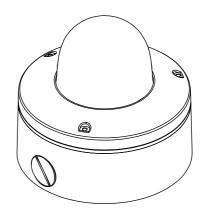
E350024-A6046-UL

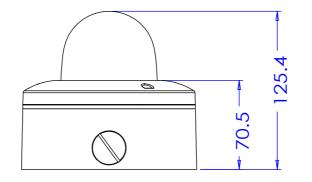
E350024-A6046-UL

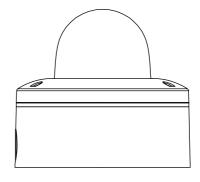
Туре	Supplement Id	Description
Photographs	03-01	Front Veiw
Photographs	03-02	Rear View
Photographs	03-03	Internal View
Photographs	03-04	Main Board Top
Photographs	03-05	Main Board Bottom
Photographs	03-06	Lens Part
Photographs	03-07	IR LED board
Photographs	03-08	Cabel Enclosure
Diagrams	04-01	Diagram
Manuals	06-01	Manual
Miscellaneous	07-01	Dual language safety labeling CRD
Miscellaneous	07-02	Transformer (Trans2) Specification (BOB TECH)
Miscellaneous	07-03	Transformer (Trans2) Specification (SH.E CO)
Miscellaneous	07-04	Label

Enclosures









DATE		SCALE		MATERIA	L
2016.02.24		1 :3			A
CPRO		DESIGNED	CHEC	KED	
	TRONICS CO., LTD.	N.S.KIM			

금형 제품에 대한 공차		기계가공에 대한 공차	
치수 범위	공 차	치수 범위	공 차
10以下	0.02	6以下	0.01
10以上 50以下	0.03	6以上 30以下	0.02
50以上 100以下	0.05	30以上 120以下	0.03
100以上 300以下	0.07	120以上 400以下	0.05
300以上	0.10	400以上 1000以下	0.08

RIA	L	DWG-NO.		REV.
	A			А
	APPROVED	DESCRIPTION	3.0	
		N	K6	



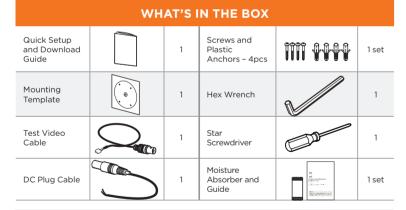


MEGApix® IVA+™ model	5MP model
DWC-MPV45WiATW	DWC-MV45WiATW



Default Login Information: admin | admin

When logging into the camera for the first time, you must setup a new password. You can set the new password using the DW[®] IP Finder[™] software or directly from the camera's browser menu.



NOTE: Download all your support materials and tools in one place

- 1. Go to: http://www.digital-watchdog.com/resources
- 2. Search your product by entering the part number in the 'Search by Product' search bar. Results for applicable part numbers will populate automatically based on the part number you enter.
- 3. Click **'Search'**. All supported materials, including manuals and quick start guide (QSGs) will appear in the results.

Attention: This document is intended to serve as a quick reference for initial set-up. It is recommended that the user read the entire instruction manual for complete and proper installation and usage.

Tel: +1 (866) 446-3595 / (813) 888-9555

digital-watchdog.com

Technical Support Hours: 9:00 AM - 8:00 PM EST, Monday through Friday

STEP 1 - PREPARING TO MOUNT THE CAMERA

- 1. The mounting surface must bear five times the weight of your camera.
- 2. Do not let the cables get caught in improper places or the electric line cover to be damaged. This may cause a breakdown or fire.
- 3. CAUTION: These servicing instructions are for use by gualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless vou are gualified to do so.
- 4. CAUTION: There is a risk of explosion if the battery is replaced incorrectly and it should be replaced only with the same battery. ATTENTION: Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect. Mettre au rebut les batteries usages conformément aux instructions.
- 5 Used batteries must be disposed of according to local regulations or the battery manufacturer's instructions. Disposing of batteries in a fire or in a hot oven, or mechanically crushing and cutting them may cause an explosion.
- Leaving the battery in very high temperature or low air pressure 6 environments may result in an explosion or leak of flammable liquids or gases.
- This product is intended to be supplied by a UL Listed Power Supply 7 Unit marked "Class 2" or "LPS" or "PS2" and rated 12 Vdc, 0.69A min.
- The wired LAN hub providing power over the Ethernet (PoE) in 8. accordance with IEEE 802-3af 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.
- 9. Unit is intended for installation in a Network Environment O as defined in IEC TR 62102. As such, associated Ethernet wiring shall be limited to inside the building.
- 10. For the installation, detach the camera module from the junction box. Use the Star Screwdriver included to loosen the three screws at the base of the camera module.
- 11. Using the mounting template sheet or the camera itself, mark and drill the necessary holes in the wall or ceiling.
- 12. Secure the camera's junction box to the mounting surface using the included screws and anchors.

STEP 2 - POWERING THE CAMERA

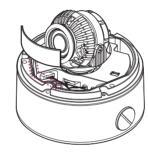
Pass the wires through and make all necessary connections. See STEP 4 for more information.

- 1. NETWORK CONNECTIONS Using a PoE Switch or PoE Injector, connect the camera using an Ethernet cable for both data and power.
- 2. NETWORK CONNECTIONS Not using PoE Switch or PoE Injector, connect the camera to the switch using an Ethernet cable for data transmission and use a power adapter to power the camera.

Power requirements	Power consumption
DC12V, PoE (IEEE 802.3af class 3). Adapter not Included.	DC12V: max 8.3W PoE: max 10.5W

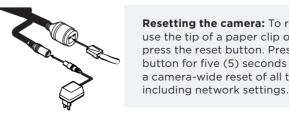
STEP 3 - INSTALLING THE CAMERA

- 1. Once all cables are connected, make sure they are positioned properly and out of the way (see STEP 4). Attach the camera module to the junction box. Use the Star Screwdriver to secure the camera in place.
- 2. Install the moisture packet in the base of the camera module.
- a. Remove the moisture absorber from the packaging.
- b. Cut the card and folder along the dotted line
- c. Place the moisture absorber under the camera's lens module.

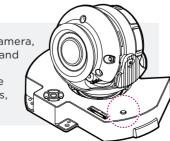


- 3. Adjust the camera's tilt and angle using its 3-axis gimbal to match the installation's needs.
 - a. Pan: 360°
 - b. Tilt: 75°
 - c. Rotation: 355°
- 4. Remove the protective film between the dome and the camera module.
- 5. Attach the camera's dome cover to the camera module using the Hex Wrench included.
- 6. Once the installation is complete remove the protective film from the camera dome.

WARNING DO NOT TOUCH THE SURFACE OF THE BUBBLE. CleanView[™] Hydrophobic Dome Coating has been applied to the camera's dome.



Resetting the camera: To reset the camera, use the tip of a paper clip or a pencil and press the reset button. Pressing the button for five (5) seconds will initiate a camera-wide reset of all the settings,



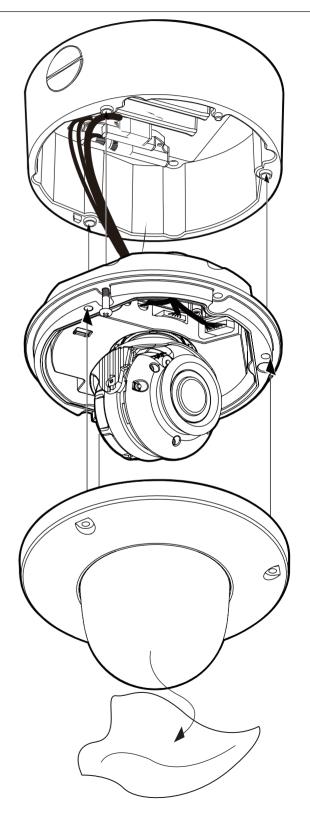




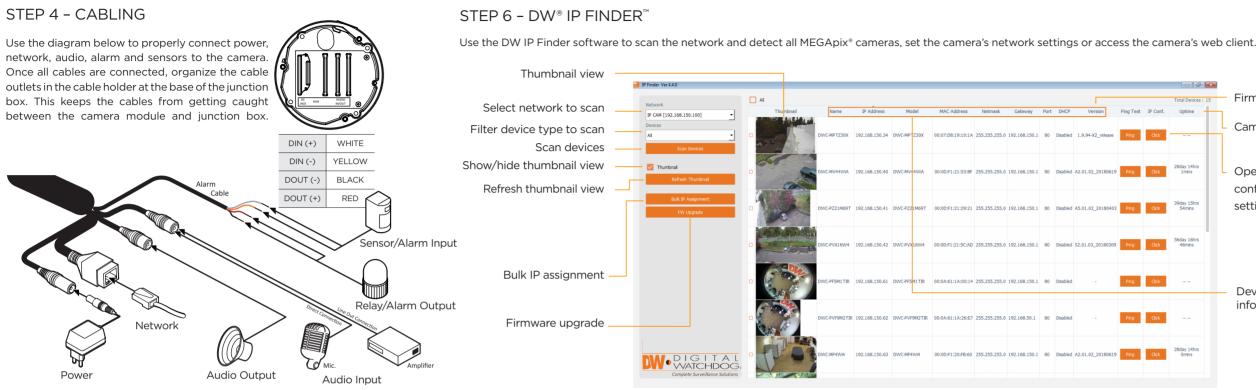


Quick Start Guide



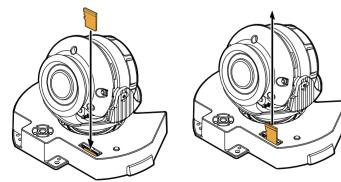






STEP 5 - MANAGING THE SD CARD

- 1. To install the camera's SD Card, locate the SD card slot at the base of the camera module by removing the cover dome.
- 2. Insert class 10 SD/SDHC/SDXC card into the SD card slot by pressing the SD card until clicks.
- 3. To remove the SD card, press the card inward until it clicks to release from the card slot then pull out from the slot.



NOTE: Maximum SD Card size supported: 64GB. When inserting the SD card into the card slot, the SD card's contacts should be facing upward, as shown in the diagram.

Network Setup

- 1. To install the DW[®] IP Finder[™], go to http://www.digital-watchdog.com
- Enter "DW[®] IP Finder" on the search box at the top of the page. 2.
- 3. Go to the "Software" tab on the DW® IP Finder™ page to download the installation file.
- 4 Follow the installation to install the DW[®] IP Finder[™]. Open the DW[®] IP Finder[™] and click 'Scan Devices'. It will scan the selected network for all supported devices and list the results in the table. During the scan, the DW[®] logo will turn gray.
- 5. When connecting to the camera for the first time, a password must be set. To set up a password for your new camera:
 - Select DHCP to allow the camera to receive its IP address automatically om the DHCP server.
 - Select "Static" to manually enter the camera's IP address, (Sub) Netmask, Gateway and DNS information.

* The camera's IP must be set to Static if connecting to Spectrum® IPVMS.

- Contact your network administrator for more information.
- Default TCP/IP information: DHCP

- a. Check the box next to your new camera from the IP Finder's search results. You can select multiple cameras.
- b. Click "Bulk Password Assign" on the left.
- c. In the pop-up window, enter admin/admin in the current username and password fields. Enter a new username and password to the right.
- d. Press "change" to apply all changes.
- 6. Select a camera from the list by double-clicking on the camera's image or clicking on the 'Click' button under the IP Conf. column. The pop-up window will show the camera's current network settings, allowing admin users to adjust the settings as needed.
- To access the camera's web page, go to the 7. IP Config page and click on the 'View Camera Website'
- To save the changes made to the camera's setting, input the username and password of the camera and click Apply.
 - 'Port forwarding' has to be set in your network's router for external access to the camera.

STEP 7 - WEB VIEWER



Current Account Username Password		New Password New Confirm Hint	
Name XWC-MF2Wi4T 0	MAC Address 0:0D:F1:21:66:92		Note

W Camera Setti	ngs		1	×
Camera Name	e	DWC-MD421TIR		
MAC Address		00:0D:F1:20:A4:9E		
IP Configurati	on Mode			
DHCP				
Static IP				
U Didde a				
IP Address		192.168.1 .101		
Netmask		255.255.255.0		
Gateway		192.168.1 .1		
DNS		192.168.40 .1		
Ports				
Web Port	80			
Control Port	0			
Video Port	0			
Audiio Transr	nit 0			
Audio Receive	0		_	
Username		admin		_
Username		aomin		
Password		*****		
Res	tore defau	It camera configuratior		
View Camera	Website	Apply		
Reboo	t	Cancel		



The GUI display may differ by camera models

Once the camera's network settings have been setup properly, you can access the camera's web viewer using the DW® IP Finder™.

To open the camera's web viewer:

- 1. Find the camera using the DW[®] IP Finder[™].
- 2. Double-click on the camera's view in the results table.
- 3. Press the 'View Camera Website'. The camera's web viewer will open up in your default web browser.
- 4. Enter the camera's username and password you setup in the DW® IP Finder™. If you did not setup a new username and password via the DW[®] IP Finder[™], you will not be able to view video from the camera. A message will direct you to setup a new password for the camera to view video.

http://192.168.10.159/ - IP Camera - Internet Ex	plorer	-		×
Change adm	in's password	I		^
Password				
Retype Password				
Password Hint				
	[Type the Pass	sword]	
Password requirement : minimum 8 char, uppercase letters, lowercase letters, num Acceptable special characters are; ~ 1 \$	bers and special characters.	ination	s of	
CHANGE PASSWORD	CHANGE LATER			~
<				>

- 5. When accessing the camera for the first time, install the VLC player for web files to view video from the camera.
- **NOTE:** 32bit version of the VLC player must be installed. If you are using a 64bit system, uninstall the previous 64bit version and reinstall using the 32bit version.
- **NOTE:** Some menu options may not be available based on the camera model. See the full manual for more information.

7.0.1		-1-00-00
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Page 1

Project No.	47896277
Compliance	
Review	
Conducted by:	

Signature Printed Name

Date _____

Edition/

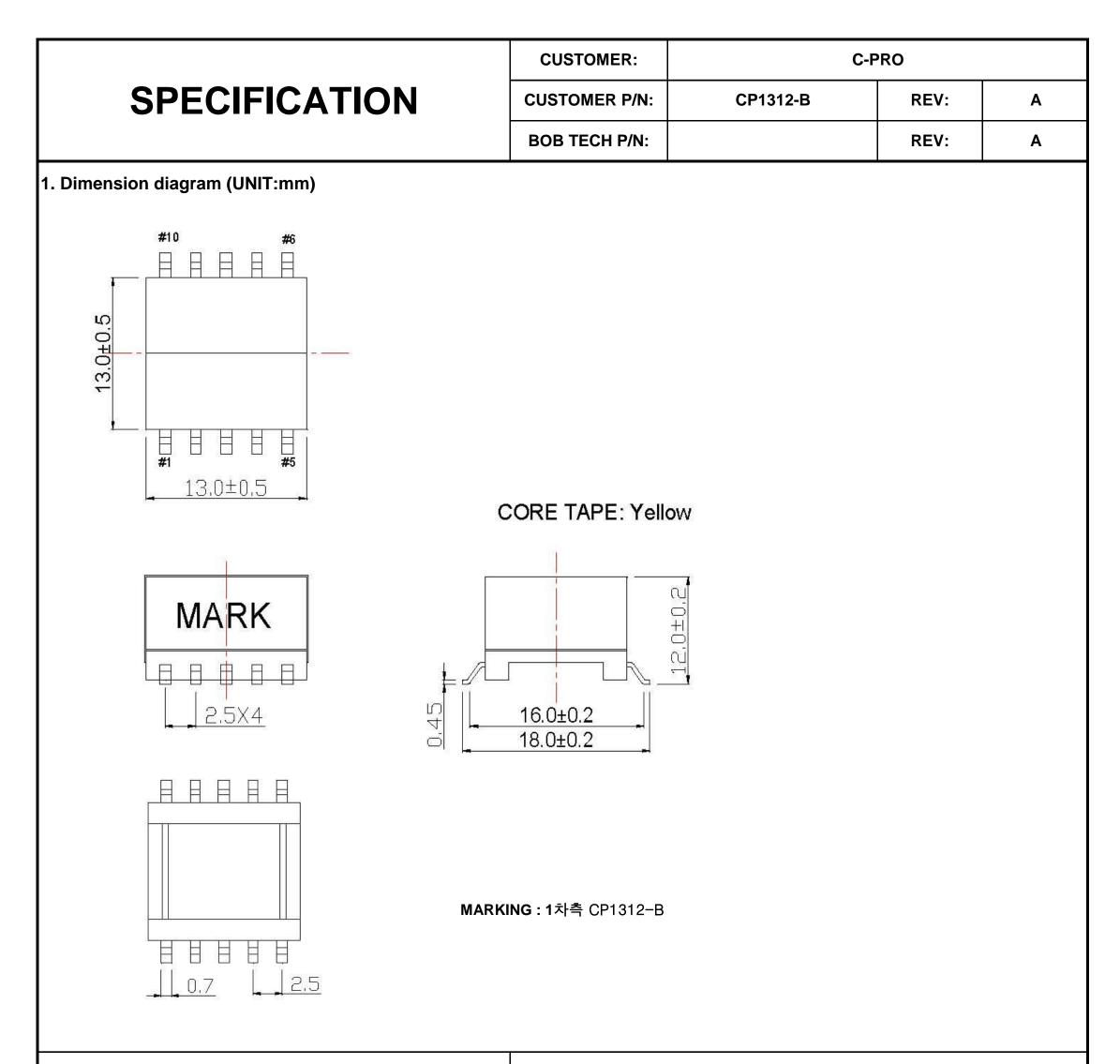
SCC Requirements and Guidance - Product Revision Standard Certification Body Accreditation Program Date 2016-04-06

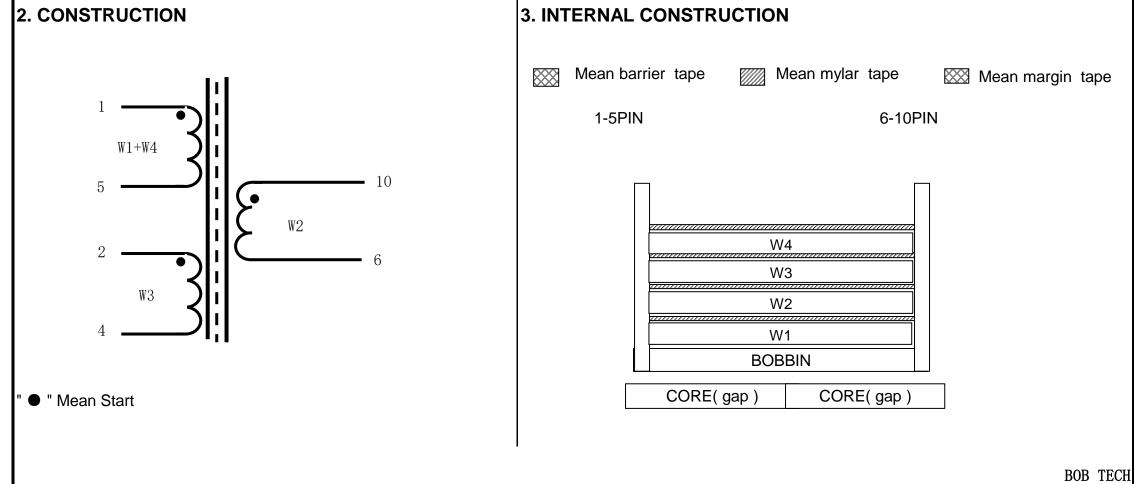
Clause/Par. Reference and	Comp	ly			Inst.
Construction Requirement	Yes	No	N/A	Comments/Measurements	ID No.
Construction Requirement 9.2.3 CBs shall include dual la certification requirements, if so having jurisdiction. The manufacturer has confirmed they have the ability to include English and French safety labeling exactly as specified in the product standard; or, if NOT specified in the product standard, the ability to include English and French	Yes nguag	No e sa	fety	labeling within their he standard or by the au 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)	ID No. product
safety labelling consisting of markings associated with the signal words DANGER, WARNING, and CAUTION when required.				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).	

 Project No.
 4789627721
 File
 E158873
 Page
 2
 Compliance Review Conducted by: Printed Name Signature

Date _____

Clause/Par. Reference and	Comp	ly			Inst.
Construction Requirement	Yes	No	N/A	Comments/Measurements	ID No.
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. 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. 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





					CUSTOMER:		C-	PRO		
	SF	PECIFICAT	ION	J	CUSTOMER	P/N:	CP1312-B	RE	EV:	
					BOB TECH P	/N:		RE	EV:	
. Win	ding para	ameters								
No	S-F	wire or other	turns	barrier ta	ape wii	nding way	wind tape	turns	remark	
W1	15	2UEW 0.30φ	22			CLOSE	25u*8.0mm(Y)	2		
W2	106	2UEW 0.30*3#	13			CLOSE	25u*8.0mm(Y)	2		
W3	24	2UEW 0.20φ	15			CLOSE	25u*8.0mm(Y)	2		
W4	15	2UEW 0.30φ	22			CLOSE	25u*8.0mm(Y)	2		
			CC	ORE wrappir	ng tape: 25u*	6.5mm(Y),	3TS			
. Elec	ctrical Ch	aracteristics(AT 25℃)						_		
NC).	ITEM		TERMIN	NAL	s	PECIFICATION		REMARK	
1		INDUCTANCE		15			48uH±10%		LCR-3302 1KHz ,1V	
3		INSULATION		P COILS COI			100MΩ MIN		AN9632W	
		RESISTANCE		P、SCOIL	CORE				DC500V	
								1.0KV/SEC/5mA AN963		
4		WITHSTANDING		P COILS		AC			AN9632W	
4		WITHSTANDING VOLTAGE		P COILS			1.0KV/SEC/5mA		AN9632W	
	erials list	VOLTAGE							AN9632W	
	erials list	VOLTAGE	I			AC			AN9632W REMARK	
. Mate	erials list	VOLTAGE	I	P、SCOIL	CORE	AC	1.0KV/SEC/5mA			
. Mate NC	erials list	VOLTAGE	MA	P、SCOIL TERIALS	CORE	AC MANU TRONICS	1.0KV/SEC/5mA FACTURERS CORPORATION		REMARK	
. Mate NC	erials list	VOLTAGE COMPONENT CORE	MA [.]	P、SCOIL TERIALS P4	CORE ACME ELEC SUMITOMO	AC MANU TRONICS BAKELITE	1.0KV/SEC/5mA FACTURERS CORPORATION		REMARK N/A	
. Mate NC 1	erials list	VOLTAGE COMPONENT CORE BOBBIN	MA [.]	P、SCOIL TERIALS P4 M9630	CORE ACME ELEC SUMITOMO SHANDONG	AC MANU TRONICS BAKELITE SAINT EL	FACTURERS CORPORATION	GLUE	REMARK N/A E41429	

APPROVAL SHEET

CUSTOMER : C-PRO Co., LTD.

PART NAME : TRANSFORMER

PART NO. : CP1312-B

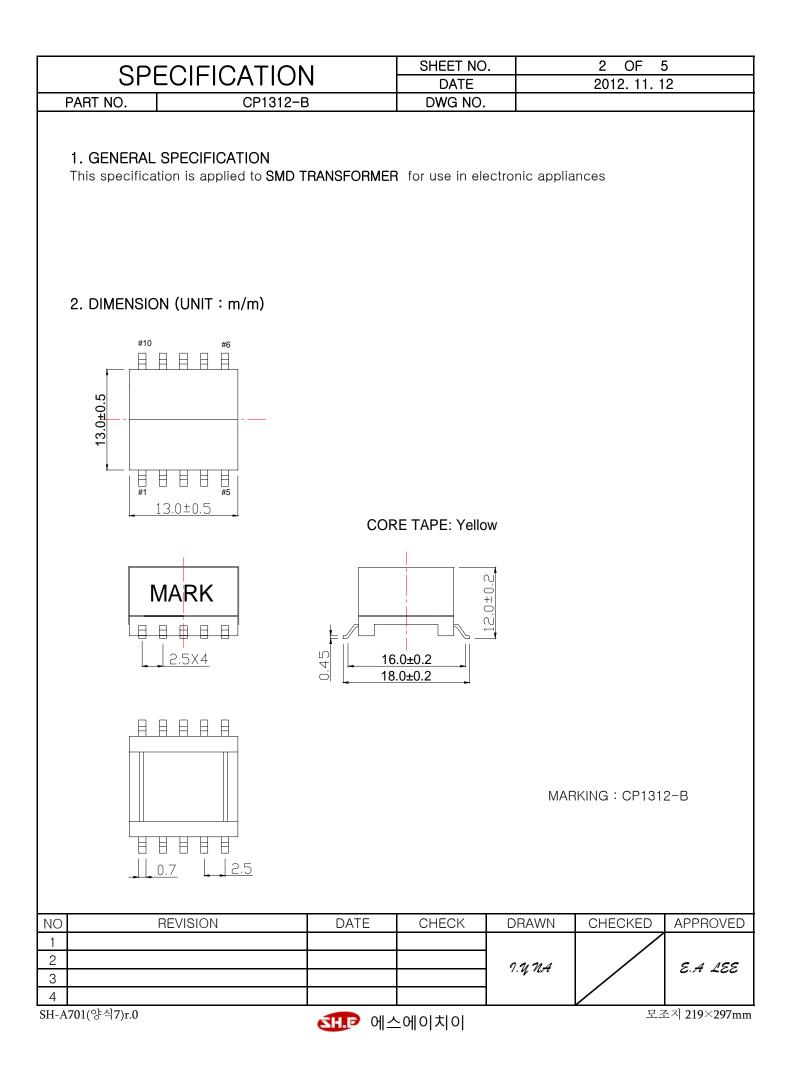
APPROVAL	REFERENCE

DATE: 2012. 11. 12.



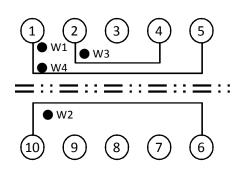
HEAD-OFFICE : D/255, Suwon GongGu Town Bldg, 23-26, Pyeong-Dong, Gwonseon-Gu, Suwon-Si, Gyeonggi-Do, Korea TEL : 82-70-4253-9157 FAX : 82-31-297-9257

NO.	CP1312-B		DWG NO	•		
RECORD OI	F REVISIONS					
REV NO.	REV DATE	DESC	RIPTION OF CH	REMARK		
0	2012. 11. 12.		NEW ISSUE			
REV	ISION	DATE	CHECK	DRAWN	CHECKED	A
				9.Y. N.A		2



SPECIFICATION		SHEET NO.	3 OF 5
		DATE	2012. 11. 12
PART NO.	CP1312-B	DWG NO.	

3. SCHEMITIC DIAGRAM



4. Electrical Characteristics

- * 저장온도 : -40℃ to +85℃
- * 동작온도 : -40℃ to +85℃

NO	ITEM	TERMINAL	SPEC.	REMARK
1	INDUCTANCE 1KHz 1.0 V SERIES	1 – 5	47uH ±15%	3260B Precision Magnetics Analyzer (Wayne Kerr)
2	HI-POT TEST AC 5mA /1 Min	PRI – SEC PRI-CORE SEC-CORE	AC 1.5KV R.M.S AC 1.0KV R.M.S AC 1.0KV R.M.S	KIKUSUI 860A
3	Insulation Resistance	COIL - COIL COIL - CORE	100 ^M Ω Min at DC 500V	KIKUSUI 860A

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2				9.U. NA		E.A LEE
3				1.4 1070		C.A 200
4						
SH-A	ʌ701(양식7)r.0	해고 에스	≚에이치이		모콜	존지 219×297mm

QD		CATION		SHEET N	0.	4 OF 5	
				DATE		2012. 11. 1	2
PART NO.		CP1312-B		DWG NC).		
5. Reliability	Test and	Mechanical Test					
5.1 Heat	and Humi	dity Test					
Electrical		istics have to satify					
	IPERATUR	E, HUMIDITY TEST	40±2℃,90 -40±2℃ 3		48 nours		
			40±2°C 3	0min			
TEMP	ERATURE	CYCLING TEST	85±2℃ 3		5 Cycle		
			25±2℃ 3				
After to t	est in roon	n temperature for 1	hour inducta	ance devia	atiion within ± 5	5%.	
5.2 Vibra	tion Test						
		icture shall not der	naged on fol	lowing tes	st.		
		on within 5%.					
	JENCY	10Hz to 55Hz		STAI	NDARD		
	TUDE	1.5 mi		IEC 6	68-2-6		
	ЛЕ	1 hours /	axis	11			
5.3 Reflo	w Test						
		istics have to satify	v and no dem	nage after	following test.		
TE	1	250±2℃	3min		lonolling toot.		
* REFI	_OW 공정	_ _					
TEM	PERATUR	E(℃)					
250				250			
200							
160							
100 50							
50		90 80	3	0 sec 2	0	Ì	
	20	90 150		210	240 330		
						E (sec)	
	REVISION		DATE	CHECK	DRAWN	CHECKED	APPROVE
1			-				
					9.Y. N.A		E.A LE
					1.4 1.4		C.H LZ
A701(양식7)r.0							돈지 219×297

	SPEC	IFICATION	١	SHEE		<u> </u>	0F 5		
PART		CP1312-E		DWG		2012.	11.12		
6. W	inding Specifi	cation							
••	TOP	/	BOTTOM						
		W4		(4))				
		W3)				
		W2		3	/				
		BOBBIN		2)				
	COF			1)				
				Ŭ					
NO	WINDING NO.	WINDING		URNS	PIN NO.		ULATIO		
1	W1	UEW 0.30m	Im	22Ts	1 – 5	PE Tape	e 0.025T 2Ts		
2	W2	UEW 0.30mm	Х З	13Ts 10 - 6		PE Tape 0.025T 2		T 2Ts	
3	W3	UEW 0.20m	im	15Ts	2 - 4	PE Tape	0.025T 2Ts		
4	W4	UEW 0.30m	m	22Ts	1 – 5	PE Tape 0.025		T 2Ts	
				RE FIXING TAPE PE Tape			0.025	T 2Ts	
7 14	aterial List								
7. M	NAME	MATER	IAL		SUPPLIER		UI	NO.	
1	CORE	FERRITE	EP13	SAM HV	VAELECTRONICS	CO., LTD			
		PL-7 Or EP13 SMD		CHANG	OR EQV	ASTICS COLLTD			
2	BOBBIN	LCP E4008 OR	PHENOLIC		OR EQV		E59481		
3	WIRE	UEW 0.2 UEW 0.30			ANG WUGU INDU CO., LTD. OR EC		E336659		
4	TAPE	POLYESTEF 0.025t X 7.5mm,0		WEIHAI KANGLI TAPE CO. OR EQV		D., LTD. E47		75896	
5			SUZHOU TA		HOU TAIHU ELEC	TAIHU ELECTRIC		E228349	
					OR EQV				
	REVI	SION	DATE	CHEC	K DRAWN	CHECK	FD	APPRO	
					9.Y NA			E.A L	
1									

Miscellaneous-04 Page-1



CAUTION

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

12mm

Risk Group 1

WARNING IR emitted from this product. Do not stare at operating lamp

Product tested against IEC62471

Photographs-01 Page-1



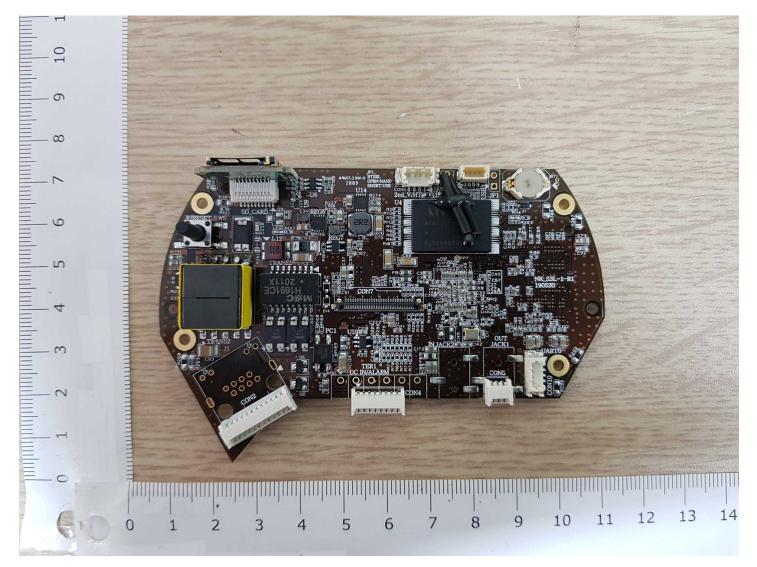
Photographs-02 Page-1



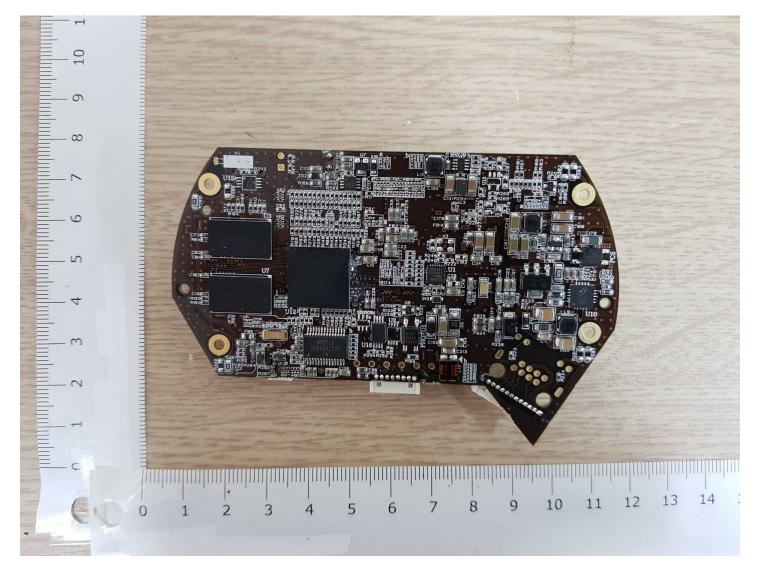
Photographs-03 Page-1



Photographs-04 Page-1



Photographs-05 Page-1



Photographs-06 Page-1



Photographs-07 Page-1



Photographs-08 Page-1

