

DUCTION RELEASE & REVISION						
	DESCRIPT'N/BUYER	DWG No	PARTS No.	BY	CHK	DATE
	INITIAL		50303971	J.Y.LIU	K.H.JUNG	11-06-M15
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NOTES

1,MODEL; HCG-N9xxxV2A32/NoBrand 2MATERIAL: 모조지100g/㎡ WHITE

3COLOR: BLACK

4.SIZE: 105(+/-5)mm x 148(+/-5)mm 5.LABEL: -----

50303971		ITEM DESCRIPTION/MATERIAL QTY			
		PARTS LIST			
ALL DIMENSIONS ARE IN MA. TO FRANCE	APPROVALS	DA	re	ДПТ	RON
LABEL 41-3 MANUAL 41-5 GLIDE 41-5			Ī	Manual II	nstruction
MATERIAL 2	CHKED			975	IREV.
COLOR 3	M.J.KWON	44.00	\neg	A4	NOT SCALE

700 TV Lines Super High Resolution Color Camera PLASTIC DOME CAMERA 3-AXIS INFRARED-LED PLASTIC DOME CAMERA

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE FOLIPMENT.

CAUTION:



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "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.

PRECAUTIONS

Safety -----

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further.

Unplug the unit from the wall oulet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials(curtains, draperies) that may block the ventilation holes.

Installation -----

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust, mechanical vibration.

Cleaning -----

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC INFORMATION: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numéique de la classe A est conforme à la norme NMB-003 du Canada.

CE COMPLIANCE STATEMENT

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

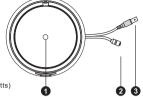


- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. CAUTION THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.
- Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.

CAMERA CONNECTIONS

- Lens: 2.8 ~ 12mm Vari-focal lens for wide area monitering. (D&N with ICR model option)
- 2. Power: 24V AC input / 12V DC input power source from a DC 12V or AC 24V ± 10% 60/50Hz ± 1Hz
 Use Certified/Listed Class 2 power source only.

*If using DC 12V power adaptor, use a power supply capable of supplying 5 Watts. (IR Model 7Watts)



3. Video: BNC connector used to connect to a monitor, switcher, etc.

INTRODUCTION

The camera provides high-quality images using SONYCCD technology especially designed for closed-circuit television (CCTV) and security surveillance applications.

Features:

- High resolution and high performance Sony[®] Super HAD™ ITechnology
- · Excellent picture quality
- 700 lines(Color) of resolution
- 0.1 lux(Color), 0.04lux(B/W) @ F1.2 50IRE Sensitivity
- 0.1 lux(Color), 0 lux(B/W, IR LED ON)
 @ F1.2 50IRE Sensitivity
- Auto electronic shutter [1/60(1/50) ~ 1/100,000] and manual electronicshutter modes
- · OSD (On Screen Display)
- · Auto and manual white balance modes
- DWDR
- OSD Font Color (16 Color)
- · BLC (Back Light Compensation)
- Smart IR

- 24EA, 850nm IR LED
 - Dav&Night (Auto / Color / BW)
 - · Private Mask (8 position, 16 Colors)
 - · AGC (Auto Gain Control)
 - · MIRROR (ON/OFF)
 - VIDEO OUT BNC
 - Motion Detection(4 point)
- · HLC (High Light Compensation)
- · DPC (Dead Pixel Cancellation)
- 2.8~12mm A/I Varifocal Lens F1.2 (D&N Lens option)
- Operates in DC 12V +/- 10% or 24V AC
- . Use Certified / Listed Class 2 power source only
- · Test monitor Output
- Camera Mount :

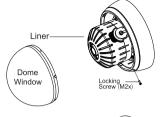
Camera Mount directly to the wall or ceiling

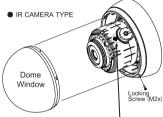


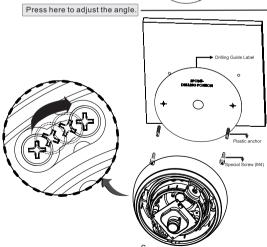
IMPORTANT: The user of this camera is responsible for checking and complying with local, state, and federal laws and statues concerning the recording and monitoring of audio signals.

BASE INSTALLATION

- Make mounting holes and cable hole in the place (ceiling or wall) to which this dome camera is installed using the Drilling guide label.
- To remove dome cover, turn the dome body counterclockwise until locators reach end of travel and pull off.
 Push the liner on the sides where the patterns are put in the teeth of a comb and put in the teeth of a comb and out in the teeth out the teeth of a comb and out in the teeth of a comb and out in the teeth of a comb and out in the teeth of a comb and out i
- Attach the housing to the ceiling using suitable fasteners, M6x35 tapping screws are supplied only use if they are suitable.
 Turn the housing to night direction about 16 degrees to lock in place.
- 4. The assembly of the dome body and liner is in reverse order of disassembly. Finally, lock dome body with locking screw(M3x5) from the accessory kit.

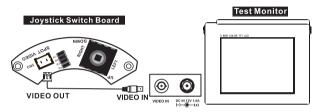






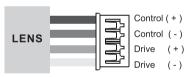
CONTENTS of PACKAGE

VIDEO OUT CHECK

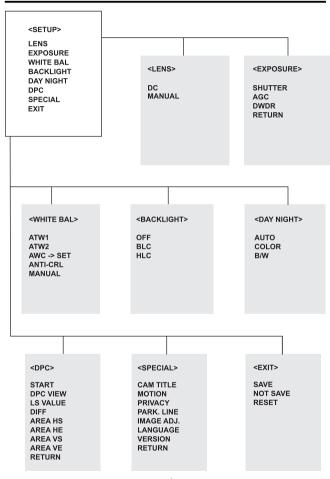


DC AUTO IRIS LENS

	2.8-12mm	
Image Size	1/3" CCD	
Focal Length	2.8-12mm ± 5%	
Aperture Ratio	1 : 1.2 ± 5%	
Angular	DIAGONAL	
Field of View	2.8mm : 119.9°	
	12mm : 28.80°	



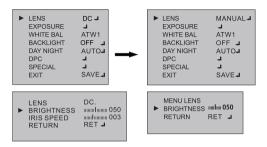
STRUCTURE OF THE SETUP MENU



LENS (Selection)

This function is used to adjust the brightness of the screen.

- 1. When the SETUP menu is displayed on the screen, please position the arrow to point to 'LENS' by using the UP and DOWN buttons.
- 2. Please select the type of the lens you wish to use by pressing the LEFT or RIGHT button.



Note The brightness of the screen can be adjusted in DC mode.

EXPOSURE

The EXPOSURE menu is used to set the automatic light control method for this camera.

1) SHUTTER Select the shutter mode.(Auto,1/60(50), FLK~ 1/100,000 sec)

Can be changed while in shutter mode.

2) AGC Auto gain control (OFF / LOW / MIDDLE / HIGH)

3) DWDR Digital Wide dynamic range(Xtended Dynamic Range) OFF / ON



WHITE BAL

The screen color can be adjusted by using the WHITE BALANCE function.

1) ATW1 Set the color temperature 2500°K 10000°K
2) ATW2 Set the color temperature 2000°K 13000°K

3) AWC -> SET Please press the ENTER button white the camera is directed

at a piece of white paper to obtain the optimum state under current illumination. If the environment including the light source

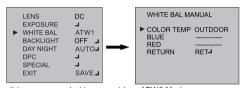
is changed, you have to adjust the white balance again.

4) ANTI. CRL Anti Color Rolling Mode.

5) MANUAL Manual mode. User can change R and B Gain manually.

INDOOR Set the color temperature to 3200°K OUTDOOR Set the color temperature to 6300°K

<WHITE BAL MANUAL MODE>



^{*} It is recommended to use outdoor ATW2 Mode.

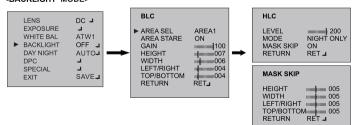
BACKLIGHT

Prevents such a back light effect to secure a clear image under all illumination environments

2) HLC The function improves the identification capability of subjects facing a

brightly lit situation by filtering out the strength of the light

<BACKLIGHT MODE>

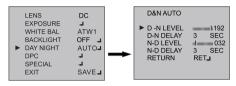


DAY NIGHT

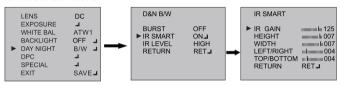
The DAY/NIGHT menu is used to configure the day and night related setting for this camera. This camera can turn the IR(infrared)filter on or off.

Mode: AUTO / COLOR / B/W / EXT (The EXT is not operating in this mode)

<DAY NIGHT AUTO MODE>



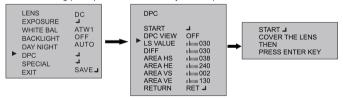
<DAY NIGHT B/W MODE>



*The IR LEVEL is not operating in DAY NIGHT B/W mode.

DPC

DPC Auto setting (Dead pixels are automatically removed)



SPECIAL

1) CAM TITLE



Caution

The menu of Camera Title part is not available when Chinese(CMPLX) is selected.

A. CAM TITLE

- B. Character Table
- C. Command Line

← : Move to left

→ : Move to right

CLR: Erase all characters
POS: Move the position of title

END: Save and End

2) MOTION

DEGREE

AREA SELECT Select MD area number. (AREA1 ~AREA4)

AREA STATE Select MD ON/OFF

HEIGHT Adjust height of MD area
WIDTH Adjust width of MD area

LEFT/RIGHT Adjust the location of the MD area with boundary

LÉFT and RIGHT.

TOP/BOTTOM Adjust the location of the MD area with boundary TOP and BOTTOM

Adjust sensitivity of MD area.(0~255)

VIEW The screen displays with pink dots. When a

motion is detected in the selected area, the pink

dots are displayed on the screen.



3) PRIVACY

AREA SELECT Select MASK area number.(Area 1 ~ Area 8)

AREA STATE Select MASK ON/OFF
HEIGHT Adjust height of MASK area
WIDTH Adjust width of MASK area

LEFT/RIGHT Adjust the location of the MASK area with boundary LEFT and RIGHT

TOP/BOTTOM Adjust the location of the MASK area with boundary

TOP and BOTTOM

COLOR Select MASK color. (0~15)
RETURN

<PRIVACY MODE>



PARK LINE

080

046

178

018

004

041

RFT

▶ LT

4) PARK.LINE

LENS

SPECIAL CAM TITLE OFF



5) LANGUAGE Changed ENGLISH or CHINESE and 7 Language.

Select Parking area

6) VISION Program Upgrade Date 7) RETURN RET or SAVE&END

DC

IMAGE ADJUST

1) LENS SHAD Adjust Lens shading level (0~255)

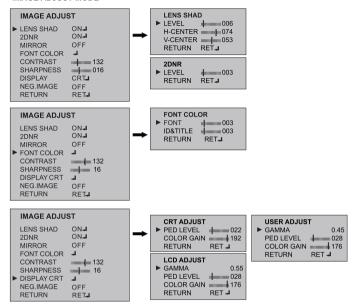
2) 2DNR Select 2DNR ON/OFF
3) MIRROR Select MIRROR ON/OFF

4) FONT COLOR Select FONT COLOR level (0~15) Select IDR TITLE level (0~15)

5) CONTRAST Adjust CONTRAST level (0~255)
6) SHARPNESS Adjust SHARPNESS level (0~31)

7) DISPLAY Select DISPLAY mode (CRT /LCD/USER)
8) NEG. IMAGE Select Negative image mode ON /OFF

<IMAGE ADJUST MODE>



EXIT

- SAVE Saves all setting and exits.
- 2) NOT SAVE Exits without Saving.
- 3) RESET Returns to the level which was set by the manufacturer for shipment.

SPECIFICATIONS

	M	IODEL	NTSC	PAL			
Power	. Power source		AC24V ± 10% / DC12V ± 10%				
Fower	Power consumption		AC 24V / DC 12V - 200mA (2.5 Watts)				
	· ·		DC 12V - 130mA (1.6 Watts) 1/3" Sony®Super HAD™ II CCD				
	Image sensor Total pixels						
	Effective pixels		1020(H) x 508(V)	1020(H) x 596(V) 976(H) x 582(V)			
	Scanning system		976(H) x 494(V) 976(H) x 582(V) 2:1 interlace				
	Scanning system		15.734KHz(H) x 59.94Hz(V)	15.625KHz(H) x 50Hz(V)			
	Sync. system		15.734KHZ(H) X 59.94HZ(V) 15.625KHZ(H) X 50HZ(V)				
General	Electronic Shutter		1/60 ~ 1/100.000 sec. 1/50 ~ 1/100.000 sec.				
	Resolution		700TV line	es (COLOR)			
	Min. illumination		0.1 Lux(Color), 0.04 Lux(B/W) @ F1.2, 50IRE				
	Video Output		1.0 Vp-p (75 ohr	n, Composite)			
	S/N Ratio		More than 50c	IB (AGC off)			
	Camera Control		OSD (Joyst				
	Lens		Manua				
	Shutte	r	Auto, 1/60(1/50), Flickerles	ss, 1/250 ~ 1/100,000sec			
	Brightn		0 ~ 2				
	Backlig	ght	OFF / BLC / HLC(High				
	AGC			OFF / LOW / MIDDLE / HIGH			
	DWDR			OFF / ON			
	White Balance		ATW1 / ATW2 / MANUAL / AWC->SET / ANTI. CRL				
	Day & Night		Auto / Color / B&W				
	D&N	Burst	OFF / ON				
	B&W	Smart IR					
		IR Level	Low /				
		Camera Title	OFF / ON				
Function		Motion Detec	OFF / ON				
FullCiloli	s	Privacy Mask	OFF / ON				
	Р	Lens Shading	OFF / ON(0 ~ 255)				
	E	2DNR Mirror	OFF / ON OFF / ON				
	С	Font Color	Font 16 Color, ID				
	- 1	Contrast	0 ~ 2				
	Α	Sharpness	0~2				
	L	Display	CRT / LCE				
		Nega Image	OFF /				
		ivega iiilage	English / Traditional Chinese				
		Language	Japanese / Russian / Portug				
	DPC		Dead Pixel Cancellation				
	Reset			Not Save / Return			
	Power input		2-Pin Wire / Terminal Block / DC Jack				
	Video output		BNC Connector				
	Day & Night System		True ICR				
Connector	LCIIO		Fixed				
				f=2.8~12mm F1.2~360 Varifocal, ICR (D&N)			
&	Operating temperature		14°F ~ 122°F (-1				
etc.	Operating humidity External Dimension		0 ~ 96% (non-condensing) 120(Ø) x 88(H) mm				
		Ulmension					
	Weight		28	5g			

■ IR CAMERA TYPE

- 111	IN ONWELL THE				
Power	Power consumption	AC24V / DC 12V - 410mA(5.0Watts) - IR LED ON			
Fower	r ower consumption	DC 12V - 250mA(3.0Watts) - IR LED ON			
	Min. illumination	0.1 Lux(Color), 0 Lux(B/W) IR LED ON @ F1.2, 50IRE			
General	IR LED / Sensor	IR LED 24EA (850 nm / 76degree), Sensor 1EA			
	LED Lighting Distance	25M			
Etc.	Weight	300g			

EXTERNAL DIMENSION

