www.nitedevil.com CAM725/727/745/747 NiteDevil Ultra Hi-Res Internal Colour Camera

NiteDevil Internal Hi-Res Dome (IR Optional)

These *NiteDevil* IR Internal Dome Cameras produce high quality images and work in very low light conditions down to 0.00001 Lux. They have many features including a 3D axis mounting inner bracket for wall mounting, a SONY SuperHad CCD II and a 2.8mm ~ 12mm varifocal lens. An OSD menu provides options for a WideLux Wide Dynamic Range option, Highlight Eclipse function, motion detection, Intelligent IR control, Digital Image Stabiliser, privacy masking etc with option for RS485 menu control.

Models Available

CAM725	600TVL, 12VDC
CAM727	600TVL, 12VDC/24VAC
CAM745	600TVL, IR, 12VDC
CAM747	600TVL, IR, 12VDC/24VAC

Key Features

- ✓ 1/3" SONY SUPER HAD CCD II
- ✓ Low illumination down to 0.00001 Lux
- ✓ Digital Image Stabiliser
- ✓ WideLux sWDR Function.
- ✓ Highlight EclipseFunction
- ✓ High Resolution 600TVL (day) 650TVL (night)
- ✓ Intelligent IR Control



- ✓ True Day & Night (ICR)
- ✓ 3 Axis 3D built-in bracket
- ✓ Vari-focal 2.8 ~ 12mm Auto DC Iris Lens
- ✓ White Plastic Housing with Smoked Cover
- ✓ 20 x IR 850nm Leds on CAM745/747
- ✓ RS485 remote menu control
- ✓ 2/3DNR Noise Reduction for night viewing

Mounting the Camera

The camera is for mounting on a wall, ceiling or outdoor facia board. Note that this camera has a 3D gimble allowing wall mounting or ceiling mounting. Note that fitting the screws into a ceiling will require support for the screws.

Powering the Camera
CAM725Note: Do not connect power to the RS485 connections

The dome requires a 12V DC regulated power supply. Connections are <u>not</u> polarity sensitive so the positive and negative cables can be connected either way around. The camera is provided with a fly lead with a terminal connector for power. This camera draws a maximum of 141mA at 12v DC. Ensure that a regulated power supply is used and allow adequate headroom i.e only use a power supply with a minimum rating of 200mA.

<u>CAM727</u>

This dome is dual voltage. It will work on 12vDC or 24vAC. Connections are not polarity sensitive so therefore power connections can be either way round. The camera is provided with a fly lead with a terminal connector for power. This camera draws a maximum of 200mA. Ensure that a regulated power supply is used if using 12vDC and allow adequate headroom i.e only use a power supply with a minimum rating of 300mA.

CAM745

The dome requires a 12V DC regulated power supply. Connections are <u>not</u> polarity sensitive so the positive and negative cables can be connected either way around. The camera is provided with a fly lead with a terminal connector for power. This camera draws a maximum of 330mA at 12v DC when IR LEDs are on. Ensure that a regulated power supply is used and allow adequate headroom i.e only use a power supply with a minimum rating of 500mA.

CAM747

This dome is dual voltage. It will work on 12vDC or 24vAC. Connections are not polarity sensitive so therefore power connections can be either way round. The camera is provided with a fly lead with a terminal connector for power. This camera draws a maximum of 420mA. Ensure that a regulated power supply is used if using 12vDC and allow adequate headroom i.e only use a power supply with a minimum rating of 600mA.

Nite Devil

Connecting the camera to control equipment.

The dome camera comes with a fly lead for video out. To reduce installation time the video out lead is terminated into a male BNC connector. This allows the installer to connect the camera to control equipment via a female BNC-BNC lead. A special setup joystick controller is located on the side of the PCB board and this allows access to the OSD menu. A special socket is located to the right of the joystick controller to connect an optional test video monitor lead.

RS485 Connection

The RS485 connection allows access to the menu using a keyboard or DVR PTZ operation using an IRIS OPEN to open menu and select options using near, far, open and closed. Connect Green to Transmit + and Blue to Transmit -.

Installation



- 1. Drill holes in wall or ceiling using template.
- 2. Screw dome baseplate to wall or ceiling.
- 3. Adjust camera zoom, focus and menu settings and then clip on dome cover.
- 4. These cameras have a 3D axis allowing the camera to be fitted directly on a wall. They have a 360° panning axis, 90° tilt axis and 180° rotation axis.

Panning: Hold the camera base and grip camera mechanism on both sides and turn it slowly to position required.

Tilt: Loosen the screws on both sides and tilt the lens to required position.

Rotation: Hold the camera board in one hand and rotate the lens to adjust picture.

Adjusting Zoom and Focus

In order to adjust zoom and focus, if you have the IR model, you will need to remove the IR cover. This is easily unclipped. Now adjust the zoom and focus settings controls. Loosen the controls using a small screwdriver. You may find it easier to set the Zoom control first and then adjust the Focus.



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Retighten the Zoom and Focus controls.

OSD (On Screen Display) Function

Remove the dome cover to access the PCB board for entering the menu.

1. If you want to use the test monitor lead supplied, plug it into the Test Monitor Connection shown in diagram. The spare short lead is a spare extension.

2. The OSD menu is accessed by first pressing down the centre button (SET Button).

 Move button upwards to move down menu. Move button downwards to move up menu Move button right to move right Move button left to move left Press button down to Enter.



Menu Set Button Press Down

The following menu will be displayed on your monitor on pressing SET button (Joystick controller):

(MAIN MENU)	
▶1. LENS	DC IRIS¢
2. EXPOSURE 4	
3. DAY/NIGHT	AUTO 2∉
4. WDR/BLC/ECLPS	₩DRŧ
5.WHITE BAL	AT₩
6. 2D-DNR	DISABLED
7. 3D-DNR	ON₊i
8. EFFECTS 4 i	
9. SPECIAL4	
10. EXIT	RET∉

Menu Structure Functions

lite

LENS	MANUAL	DC			
EXPOSURE	AGC	SHUTTER	SENS-UP	INITIAL	SAVE
DAY/NIGHT	AUT01	AUT02	DAY	NIGHT	
WDR/BLC/ECLPS	OFF	WDR	BLC	ECLPS	
WHITEBAL	ATW	COL-ROLL	PUSH	MANUAL	
2D-DNR	DISABLED	OFF	LOW	MIDDLE	HIGH
3D-DNR	ON	OFF			
EFFECTS	DZOOM MODE	IMAGE FREEZE	D-EFFECT	CONTRAST	SHARPNESS
	COLOR ADJUST	TARGET CROSS	BAD PIXEL	INITIAL SET	SAVE
SPECIAL	CAM NAME	MOTION DET	PRIVACY MASK	LANGUAGE	STABILIZER
	MONITOR TYPE	FACE REC	COMM SET	FACTORY RESET	SAVE
EXIT					

NOTE: All items with the *icon* allow you to access a submenu by pressing the SET button down. Any item showing *- - -* icon functionality is not available on this camera.

SPECIAL NOTE: SENS UP is the NITEDEVIL option

- (a) When SHUTTER is in Manual mode, SENS UP does not operate.
- (b) When AGC is turned off, SENS UP does not operate.
- (c) When SENS UP is off, 3-DNR does not operate.

LENS

Select the lens and adjust the SETUP suitable to the type of lens.

When DC iris lens is used. (The default lens fitted) Please select the lens mode to DC IRIS. Press the SET to enter the <DC IRIS MENU>.

BRIGHTNESS: adjust the brightness of screen to widest setting during the brightest point in the day without the picture whiting out.

REACTION: Reaction speed of the shutter is adjustable. It is useful when the light conditions keep changing quickly.

SAVE : Press SAVE to finish all settings and return to <MAIN MENU>

When MANUAL lens is used

- 1. Please select the lens mode to MANUAL.
- Press the SET to enter the <MANUAL IRIS MENU>.
 BRIGHTNESS: same as above
 REACTION: same as above







EXPOSURE

AGC (Auto Gain Control)
OFF: Deactivates the AGC function.
LOW: Allows automatic gain control from 0 to 20dB. (Default)
MIDDLE: Allows automatic gain control from 0 to 30dB.
HIGH: Allows automatic gain control from 0 to 42dB.

The higher the gain level, the brighter the screen becomes while the higher the noise as well.

<main menu=""></main>	
1. LENS	MANUAL∉
▶2. EXPOSURE.	
3. DAY/NIGHT	AUTO 24
4. WDR/BLC/ECLPS	₩DR¢i
5.WHITE BAL	AT₩
6.2D-DNR	DISABLED
7. 3D-DNR	ON₊i
8. EFFECTS 4	
9. SPECIAL4i	
10. EXIT	RET∉



SHUTTER

AUTO: The shutter speed is controlled automatically (Default) **FLK**: Please select FLK mode when flickering occurs on the

Screen. Can be caused by an imbalance between illumination and frequency.

FIXED : The shutter speed is controlled manually.

Select the speed from '1/50' to '1/90,000 sec. (PAL). Select Digital Slow Shutter between $x_2 \sim x_{512}$. (DSS)

Please use FIXED mode only when the light level of the surveillance area is fixed all the time.

SENSE-UP (This is the NiteDevil feature)

Low light sensitivity is greatly improved with the use of this function.

Low light sensitivity level is adjustable from x2, x3, x4, x5, x6, x8, x10, x12, x14, x16,

X32, x64, x128, x256, x512 times Default setting is x8

When SENS-UP level is high, the picture becomes brighter while noise is increased at the same rate of SENS-UP.

ON : Adjustable SENS-UP level between $x^2 \sim x^{512}$. **OFF**: SENS-UP is disabled.

Note

When the SHUTTER is set to MANUAL mode, SENS-UP does not operate. When the AGC is set to OFF, SENS-UP does not operate.

INITIAL SET

Initialise all settings of EXPOSURE menu. $\ensuremath{\textbf{SAVE}}$

DAY / NIGHT

It is used to improve the sensitivity and clarity of picture quality in low light situations

DAY : The image is always displayed in colour.

NIGHT : The image is always displayed in black and white.

(MAIN MENU)	
1. LENS	DC IRIS#
2. EXPOSURE 4	
▶3. DAY/NIGHT	AUTO 24
4. WDR/BLC/ECLPS	₩DRŧ
5. WHITE BAL	AT₩
6. 2D-DNR	DISABLED
7. 3D-DNR	0N+i
8. EFFECTS∳	
9. SPECIAL#	
10. EXIT.	RET∉

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AUTO1: The image is automatically converted to B/W from colour at 3 lux.

IR WDR LEVEL: Select Anti- IR saturation level OFF/LOW/MIDDLE/HIGH

IR WDR ADJUST: Adjust the value in each of selected level $0 \sim 6$

Use this option if camera is an Infra-red camera

AUTO2: The image is automatically converted to B/W from colour at 3 lux.

D/N LEVEL: LOW/MIDDLE/HIGH

FILTER DLY: Select the duration time about changing the Day/Night mode. (1 SEC, 3 SEC, 5 SEC, 10 SEC, 15 SEC, 30 SEC, 60 SEC)

NIGHT BURST: Burst ON/OFF selectable.

INITIAL SET: Initialise all settings of AUTO2 menu. Default setting

Use this option if camera is <u>not</u> an Infra-red camera

WDR/BLC/ECLPS

The image quality is greatly improved with the use of this mode when there is a strong backlight behind the object.

OFF : Deactivates the WDR function.

WDR: Camera scans both brightly lit backgrounds and shaded areas in extremely contrasted light situations. (LOW/MIDDLE/HIGH) settings available.

BLC: Enables a user to directly select a desired area from a picture and to view the area more clearly. (LOW/MIDDEL/HIGH) settings available.



<main menu=""></main>	
1. LENS	DC IRIS#
2. EXPOSURE	
3. DAY/NIGHT	AUTO 14
▶4. WDR/BLC/ECLPS	₩DR¢i
5.WHITE BAL	ATW
6.2D-DNR	DISABLED
7.3D-DNR	ON¢i .
8. EFFECTS 4	
9.SPECIAL.	
10. EXIT	RET∉









ECLIPSE:

This can mask the headlights to view a car license number plate more clearly. You can select masking colour. Adjust the ECLIPSE level with the GAIN CONTROL in OFF mode.





WHITE BAL (White Balance)

This is useful to optimise the white balance control under a certain artificial lighting area where a standard white balance condition is not suitable.

ATW (Auto Tracking White Balance)

This mode can be used within the colour temperature range of $1,500^{\circ}$ K~ $11,000^{\circ}$ K. (\gg Default)

COL-ROLL (Anti color rolling mode) Use it only when the rolling is severely shown.

MANUAL

Recommended for use when the lighting does not change. Select **INDOOR** or **OUTDOOR** mode.

PUSH (Push lock)

Use this when the White Balance has deviated due to electrical interference. Face the camera towards a white wall or white paper and press the menu button to set.

Note: White Balance may not work properly in the following conditions:-

1. When the colour range of the environment surrounding the subject is out of the control range (e.g. clear sky or sunset).

2. When the ambient illumination of the subject is dim.

3. If the camera is directed towards a fluorescent light or is installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

<main menu=""></main>	
1. LENS	DC IRIS#
2. EXPOSURE ₄ i	
3. DAY/NIGHT	AUTO 14
4. WDR/BLC/ECLPS	OFF
▶5.WHITE BAL	ATW
6.2D-DNR	DISABLED
7.3D-DNR	0N¢i
8. EFFECTS	
9. SPECIAL.	
10. EXIT	RET



DIGITAL NOISE REDUCTION (Used with the NiteDevil feature)

This option reproduces noiseless images with 2D/3D filtering Noise Reduction Technology. 2D DNR helps preserve definition in the picture, whilst 3D DNR produces clear images with no ghost effect.

2D-DNR (2D Noise Reduction)

LOW: **MIDDLE:** HIGH: **DISABLED:** Deactivates 2D-DNR. Noise is not reduced. **OFF**: Activates 2D-DNR(Level : 0). Noise is not reduced.

NOTE: Bad pixel	l detection function is o	ly operational when	n 2D-DNR DISABLE	D is selected

<u>3D-DNR</u> (3D Noise Reduction)

The background noise in the low light level decreases automatically as the level of gain changes.

DNR LEVEL

Adjust the noise reduction level.

DESTINATION

Adjust the 3DNR gain.

GLOBAL MOVEMENT

Controls ghosting.



(MAIN MENU)	
1. LENS	DC IRIS#
2. EXPOSURE.	
3. DAY/NIGHT	AUTO 14
4. WDR/BLC/ECLPS	₩DRŧ
5.WHITE BAL	ATW
6. 2D-DNR	OFF
7.3D-DNR	ON₊i
▶8. EFFECTS.	
9. SPECIAL.	
10. EXIT	RET∉

EFFECTS

D-ZOOM : You can use digital zoom. ZOOM : x1 ~ x8.30 DZOOM PAN : -100 ~ 100 DZOOM TILT : -100 ~ 100

<pre><effects menu=""></effects></pre>	
DZOOM MODE	OFF
IMAGE FREEZE	OFF
D-EFFECT	OFF
CONTRAST 50	mmmfimm
SHARPNESS 50	
COLOR ADJUST	
TARGET CROSS	OFF
BAD PIXEL₊i	
INITIAL SET.	
SAVE	4

<pre>CDIGIT#</pre>	AL ZOOM	ME	NU>
DZ00M DZ00M DZ00M SAVE	X1. PAN TILT	00 0 0	4

3. DAY/NIGHT 4. WDR/BLC/ECLPS 5. WHITE BAL ▶6. 2D-DNR 3D-DNR 8. EFFECTS 9. SPECIAL

> (MAIN MENU) 1. LENS 2. EXPOSURE

3. DAY/NIGHT 4. WDR/BLC/ECLPS

5 WHITE BAL

8. EFFECTS# SPECIAL.

6. 2D-DNR

₽7.3D-DNR

10. EXIT

9

(MAIN MENU> 1. LENS

2. EXPOSURE

DC IRIS#

AUTO 14

DISABLED

₩DR

AT W

ON¢

RET ∉

AUTO 1.

₩DRŧ

AT#

OFF

ON.

RET.

Email: support@nitedevil.com

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IMAGE FREEZE : You can view still or live image.

D-EFFECT

V-FLIP : Flips the picture vertically on the screen. MIRROR : Flips the picture horizontally on the screen. ROTATE : Rotates the picture on the screen.

CONTRAST : 0 ~ 100
SHARPNESS : $0 \sim 100$
COLOR ADJUST

COLOR : ON/OFF COLOR LEVEL : 0 ~ 200 COLOR HUE : -180 ~ +180 RED GAIN : -100 ~ +100 BLUE GAIN : -100 ~ +100

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▶COLOR ON
COLOR LEVEL 100
COLOR HUE 0
RED GAIN 0 minutement
BLUE GAIN 0 mmm/mmm
SAVE 🐳

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<target< th=""><th>CROSS</th><th>MENU></th></target<>	CROSS	MENU>
COLOR MOVE X MOVE Y INITIAL SAVE	0 0 _ SET 4	BLACK

TARGET CROSS : Displays '+' on the screen COLOR : BLACK, GREY, WHITE, RED, GREEN, YELLOW MOVE X : -100 ~ 100 MOVE Y: -100 ~ 100

INITIAL SET (Default setting for this option) SAVE

The TARGET CROSS function when in operation will display '+' but disappears if MOTION DETION function is 'ON'

BAD PIXEL: BAD PIXEL compensation BP DETECTION: Make the screen completely black by covering the camera. SEARCH AREA: X START / Y START / WIDTH / HEIGHT THRESHOLD: 40 ~ 1024 SAVE

KBAD PIXEL	DETECTION>
▶BP DETECTI	0N¢
SEARCH ARE	A∢i
THRESHOLD	90 .
SAVE	· 🖌

NOTE: Users may simply activate BP DETECTION and go directly to SAVE. Any bad pixels in full screen mode are automatically compensated.

INITIAL SET: Initialises all settings in EFFECTS menu. Target Cross and Bad Pixel modes are not initialised.

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SPECIAL

CAM NAME (Camera Name) Select 'CAM NAME' and switch option ON .

Note: If 'OFF' is selected, the CAM NAME does not appear on the monitor even if it has been input. Up to 15 characters for the name are available.

Please move the cursor to the letter required by using the UP and DOWN selections.

Set a name from characters A~Z/a~z/0~9 by using the UP, DOWN, LEFT and RIGHT buttons. Press the menu button to enter the character. When the character is saved, the cursor moves to the next space.

Repeat to input name required.

(SPECIAL MENU/		
▶CAM NAME	OFF	
MOTION DET	OFF	
PRIVACY MASK	OFF	
LANGUAGE	ENGLISH	
STABILIZER	OFF	
MONITOR TYPE	CRT	
FACE REC	OFF	
COMM SET.		
FACTORY RESET		
SAVE	4	

CODECTAL MEND



Note:

If a wrong name has been input, press the menu button after moving the cursor to CLR, and all letters will be erased. If you want to correct a letter, please move the cursor to the arrow at the bottom left of the screen and press the menu button. Then position the cursor on the letter you wish to correct, and then move the cursor onto the letter you wish to choose and press the menu button. When a name has been chosen, please select a position for the name to display.

Please move the cursor onto 'POS' and then press the button.

The name will appear in the top left hand corner.

Please find the position you wish to display the name, by using the 4 directional selections, and then press the menu button. Then select END and press the menu button to complete CAM NAME input.

MOTION (Motion Detection)

You can set up to 8 motion detection areas and if movement is detected in an area the message: MOTION AT : <area number> is displayed.

ZONE NUMBER : Select up to 8 MD areas.
ZONE STATE : Switches zone on or off.
WIDTH : Determines the horizontal size.
HEIGHT : Determines the vertical size.
MOVE X : Determines the horizontal axis.

MOVE Y : Determines the vertical axis.

SENSITIVITY : Determines the motion detection sensitivity.

INITIAL SET : Initialise all settings in MOTION DET menu.

SAVE : Select this to save the MOTION menu setting and return to the SPECIAL menu.

KMOTION DET M	ENU)	>
►ZONE NUMBER ZONE STATE WIDTH HEIGHT MOVE X MOVE Y SENSITIVITY INITIAL SET# SAVE	20 30 15 25 50	ZONE1 OFF

PRIVACY (Privacy Masking)

MASK NUMBER : Select up to 8 PRIVACY areas.
MASK STATE : Switch Mask state on or off.
SENSITIVITY : Determines area color. You can select
GREY, WHITE, RED, GREEN, BLUE, YELLOW, BLACK.
WIDTH : Determines the horizontal size.
HEIGHT : Determines the vertical size.
MOVE X : Determines the horizontal axis.
MOVE Y : Determines the vertical axis.
INITIAL SET : Initialise all PRIVACY masking settings.
SAVE : Select this to save the PRIVACY menu settings and return to the SPECIAL menu.

■MASK NUMBER MASK1 MASK STATE OFF MASK COLOR GRAY WIDTH 30 HEIGHT 30 MOVE X 30 MOVE X 30 MOVE Y 25 INITIAL SET4 SAVE 4	<pre><pre>PRIVACY MASK</pre></pre>	MENU>
MASK STATE OFF MASK COLOR GRAY WIDTH 30 HEIGHT 30 MOVE X 30 MOVE X 30 MOVE Y 25 INITIAL SET4 SAVE 4	MASK NUMBER	MASK1
₩1DTH 30 HEIGHT 30 MOVE X 30 MOVE Y 25 INITIAL SET4 SAVE 4	MASK COLOR	GRAY
MOVE X 30 MOVE Y 25 INITIAL SET4 SAVE 4	HEIGHT 30	
أ¢INITIAL SET فه SAVE	MOVE X 30 MOVE Y 25	
	INITIAL SET∉ SAVE	4

LANGUAGE

You can select the menu language from English, Korean, Russian, Spanish and French

STABILIZER (DIS)

This function mitigates any picture movement due to external factors such as wind.

Note: When the STABILIZER option is used there is a possibility of decreased resolution because this function uses digital zoom.

STABILIZER does not operate when background illumination is too low or picture contains a large expanse of black or white colour e.g white wall or sky.

MONITOR TYPE

This selects a different GAMMA setting.

CRT : GAMMA 0.45 LCD : GAMMA 1.0

FACE REC (Face Recognition)

In a situation where the internal illumination is dark but strong backlight exists behind the subject, the human face can become unrecognisable. This mode is suited for this particular problem. FR BRIGHTNESS : $0 \sim 40$ FR CONTRAST : $0 \sim 40$ COLOR SAT : $0 \sim 200$ CONTRAST : $0 \sim 100$ OUTPUT LEVEL : $-64 \sim +64$ SHARPNESS : $0 \sim 100$



COMM SET (Communication setting)

This function sets up the camera communication status when controlling the camera through an external control device such as DVR with PTZ functionality or RS485 keyboard. See further info below.

CAMERA ID

CAMERA ID : Determines the camera's identification number (between 0 and 255).

<set camera="" i<="" th=""><th>D></th></set>	D>
▶CAMERA ID 00 DISPLAY ID	1 0FF
SAVE	له

<comm< th=""><th>SETTING</th><th>MENU></th><th></th></comm<>	SETTING	MENU>	
PROTO	COL	PELCO-D	
BAUD		9600	
SAVE	REBOUT	¢.	
COMM	UNICATIO	N PROTOCOL	

ID POSITION: Displays camera title on top left & right side of the screen.

BAUD RATE : You can select 4800/9600/19200/38400/57600 bps .

SAVE/REBOOT: Select this to save the COMM SET menu setting and return to the main screen.

PREVIOUS: Return to COMM SET menu.

RS485

This option allows setting of the menu using the RS485 connecting lead. If using an Alien DVR connect lead to T+ and T-. The camera RS485 lead Green = T+ and Blue = T-.

Set camera ID in camera to same as in DVR PTZ menu.

Ensure baud rates are set the same. The suggested baud rate = 4800. Set the Protocol to PELCO-D in DVR. Then **set** Preset 95 in DVR to display menu. In the PTZ menu use the down arrow key to move to menu line and the right arrow key to alter value. Then use the IRIS+ button to enter.

Note: RS-485 cable : Please connect (-) first and then (+). IF there is an RS-485 cable connection problem or any other problem that causes a message **'ERROR RS-485 Connection. Please Reconnect and Reboot'** to be displayed, then power off the camera and reboot.

FACTORY RESET

Resets the camera setting to the factory defaults except <COMM SET> which is not initialised.

EXIT

Save all setting menus by pressing the menu button and then EXIT.



<u>Troubleshooting</u>	
No screen display	* check power supply to camera
	* check video line
	* check brightness of Auto Iris Lens
Unclear video image	* check lens is clean
	* adjust monitor contrast
Day/Night menu fault	* Check if AGC switched off
Sens-Up menu fault	* Check if AGC switched off, check that Shutter menu is FLK or Manual
Colour incorrect	* Check White Balance setup
Dimensions	







TECHNICAL SPECIFICATIONS

Model No	CAM725	CAM727	CAM745	CAM747	
Operating Current	12vDC 141mA	12vDC 141mA or	12vDC 330mA	12vDC 330mA or	
	24vAC 200mA		20 - 950-	24vAC 420mA	
IK LEDS	N	10	20 x 850nm IR Leds		
IR beam distance	Ň	lo	Up to 3	0 metres	
Weight	500	grms	520	grms	
Lens	2.8 ~ 12mm D0	C Iris Lens/F1.2	2.8 ~ 12mm DC Iris Lens (ICR)		
Image Sensor		1/3" Sony Suj	per HAD CCDII		
Effective Pixels		PAL: 752	(H) x 582(V)		
Horizontal Resolution		600TVL (Day)	650TVL (Night)		
Synchronising System		Int	ernal		
Scanning System		625 Lines 2	2:1 Interlaced		
Video Output	1.0v p~p composite 75 ohms				
Signal to Noise Ratio	More than 52dB (AGC Off)				
Minimum Illumination	0.00001 Lux/F1.2 (Sens-Up) 0.2 Lux/F1.2				
Shutter Speed	NTSC: 1/60 ~ 1/100000 sec PAL:1/50 ~ 1/100000 sec				
Gamma Correction	Standard $r = 0.45$ (OSD)				
White Balance	1800K ~ 11000K auto				
Gain Control	6dB ~ 40dB Off / Low / Middle / High				
Smear Effect		0.0	005%		
Power Source	12v	'DC	12vDC c	or 24vAC	
Operating Temperature		-10°C	~ +50°C		
Humidity		Within	90% RH		
Measurements		134mm (I	D) x 91.7 (H)		
OSD MENU					
White Balance	ATW / COL-ROLL / PUSH / MANUAL				
Sens-up	x2 ~ x512				
Privacy Masking	Off / On (8 x programmable zones)				
Motion Detection	Off / On (8 zones)				
Digital Zoom	Off / On (x1 ~ x8.30)				
3DNR	Off / On				

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WEE/CG0783SS