# Integrated High Speed Dome Camera OSD Menu

Indoor/Outdoor

Ver 1.1

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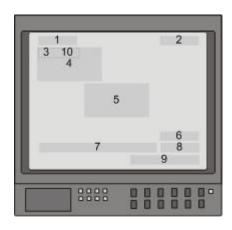
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# 3. **Operation and Configuration**

# 3.1 Display Format

The information shown on the screen is described in terms of OSD display, position and function description in the table below.



Position	Function	OSD Display	Description
1	Motion	MOTION	Alarm Detect Message
2	Alarm	ALARM 1	Alarm Message
		Α	Auto Focus Mode
3	Focus Modes &	M	Manual Focus Mode
3	Backlight	Х	Back Light Compensation OFF
		В	Back Light Compensation ON
	Booting	XX(Dome Type); ID: 001 (Default)	
4	Message	DSCP/9600 (Default)	Shows Dome Type, ID Address, Protocol and Baud Rate
	Wessage	INITIALIZING	
	Error Message	PAN ERROR	
5		TILT ERROE	Shows system initializing error message
		CAM MODULE ERROR	
6	Zoom Ratio	x1	Present Zoom Ratio
	20011114110	<b>A</b> 1	(Optical Zoom/Digital Zoom)
7	Title	Maximum 20 characters for each ti	tle.
•	1100	16 sets of title are available.	
8	Camera ID	001	Show the camera ID
9	Time	XXXX/XX/XX XX:XX	Year/Month/Day Hour: Minute
			XX: facing direction of PTZ including N,
10	Position display	XX YYY/YY	E, Z, W, NE, SE, SW, SN
			YYY/YY: angle of PZT, 0~359/ 10~-90

# 3.2 OSD Menu Tree

The OSD setup menu structure is listed separately in the following section. The star symbol indicates the factory default.

For detailed function description, please refer to 3.3 Configuration Menu.

Item	Layer 1	Layer 2	Layer 3	Default
LANGUAGE	<pre><english>, <japanese>, <portuguese>, <spanish>, <french>,</french></spanish></portuguese></japanese></english></pre>			ENGLISH
DEFAULT CAMERA	<on>, <off></off></on>			ON
BACKLIGHT	<on></on>			OFF
271011210111	<off></off>			NORMAL
FOCUS	AUTO	EXIT+SAVE	AF MODE <normal>, <z. trig.="">, <ptz trig.=""></ptz></z.></normal>	
10003	MANUAL	LAITTOAVE		
	EXPOSURE COMP.	<off>, EXPOSURE \ EXIT + SAVE:</off>	'ALUE: <-10.5dB> ~ <10.5dB> YES	OFF
		AUTO	BRIGHT VALUE/ SHUTTER SPEED/ IRIS VALUE/ GAIN VALUE: AUTO	
			EXIT + SAVE: YES	
		SHUTTER	SHUTTER SPEED PAL: <1/50> ~ <1/10000> SEC. NTSC: <1/60> ~ <1/10000> SEC.	
AE MODE			EXIT + SAVE: YES	
	AE MODE	IRIS	IRIS VALUE <f1.6> EXIT + SAVE: YES</f1.6>	AUTO
		MANUAL	BRIGHT VALUE: AUTO	
			SHUTTER SPEED PAL: <1/50> ~ <1/10000> SEC. NTSC: <1/60> ~ <1/10000> SEC. IRIS VALUE <f1.6></f1.6>	
			GAIN VALUE <-3>dB ~ <28>dB EXIT + SAVE: YES	
	EXIT+ SAVE	YES	EXIT + SAVE. 1ES	
	AUTO (Auto White Balance	_		☆
	INDOOR			
	OUTDOOR			
WBC MODE	ATW (Auto-tracing WBC)			
	NAANII IAI	R GAIN <000> ~ <127>		
	MANUAL	B GAIN <000> ~ <127> EXIT + SAVE: YES		
	ZOOM SPEED	<8>	ILO	8
	MAX. DIGITAL ZOOM	<0FF>, <2x>	~ <12x>	OFF
	SLOW SHUTTER	<on>, <off></off></on>		OFF
SETUP MENU 1	D.N.R.	2D N.R. <on> 3D N.R. <on> EXIT + SAVE:</on></on>	, <off></off>	ON
OLIGI WILING	IMAGE INVERSE	<0N>, <0FF>		OFF
	FREEZE	<0N>, <0FF>		OFF
	APERTURE	<01> ~ <16>		7
	STABLIZER	<0N>, <0FF>		OFF
	EXIT	YES		
	FLIP	<off>, <m.e.< td=""><td></td><td>OFF</td></m.e.<></off>		OFF
SETUP MENU 2		EXIT + SET: YES MIN ANGLE <-10 ~ +10 DEG>		0
	ANGLE ADJUSTER		<080 ~ 100 DEG>	90

Item	Layer 1	Layer 2	Layer 3	Default
TOTAL STATE OF THE	Layer :	EXIT + SET: YE		Doraut
		PT DISPLAY	<on>, <off></off></on>	OFF
				UFF
	PT POSITION	SET PAN ZERO	<pt move="">, <to save=""></to></pt>	
	00550 00750014	EXIT+SET	YES	055
	SPEED BY ZOOM	<0N>, <0FF>		OFF
	AUTO CALI.	<on>, <off></off></on>		OFF
	PASSWORD	<on>, <off></off></on>		OFF
	OSD AUTO CLOSE	<off>, &lt;10&gt; ~</off>		20
		SYSTEM RESE		
	SYSTEM RESET	DEFAULT SYST	TEM <yes></yes>	
		EXIT <yes></yes>		
	EXIT	YES		
ID DISPLAY	<on>, <off></off></on>			ON
TITLE DISPLAY	<on>, <off></off></on>			OFF
TITLE SETTING	<01> ~ <16>	_		1
	PRESET SET	<001>~<256>		ENTER
PRESET	PRESET RUN	<001>~<256>		ENTER
	EXIT	YES		ENTER
	SEQUENCE LINE	<1> ~ <8>		1
	SEQUENCE POINT	<01> ~ <64>		1
	PRESET POS.	<001> ~ <255>,	<end></end>	END
SEQUENCE	SPEED	<01> ~ <15>		1
	DWELL TIME	<000> ~ <127>	SEC.	0
	RUN SEQUENCE	ENTER		
	EXIT	YES		
	AUTOPAN LINE	<1> ~ <4>		1
	START POINT	<pt move="">, &lt;1</pt>		
	END POINT	<pt move="">, &lt;1</pt>		
AUTOPAN	DIRECTION	<right>, <lef< td=""><td>T&gt;</td><td>RIGHT</td></lef<></right>	T>	RIGHT
	SPEED	<01> ~ <04>		1
	RUN AUTOPAN	ENTER		
	EXIT	YES		
	CRUISE LINE	<1> ~ <8>		1
	RECORD START	ENTER		
CRUISE	RECORD END	ENTER		
	RUN CRUISE	ENTER		
	EXIT	YES		
	V.A. MODE	<on>, <off></off></on>		OFF
	MOTION BLOCK	<on>, <off></off></on>		
V.A. MODE	BOUNDING BOX	<on>, <off></off></on>		
	THRESHOLD	<1> ~ <255>		
	EXIT	YES		
	HOME FUNCTION	<on>, <off></off></on>		OFF
	SELECT MODE		EQUENCE>, <autopan>,</autopan>	PRESET
	GEEEGT WIGGE	<cruise></cruise>		TREGET
	PRESET POINT	<001> ~ <256>		1
HOME SETTING	SEQUENCE LINE	<1> ~ <8>		1
HOWE SETTING	AUTOPAN LINE	<1> ~ <4>		1
	CRUISE LINE	<1> ~ <8>		1
	RETURN TIME	<1> ~ <128> MI	N.	1
	GO	ENTER		
	EXIT	YES		
			MID>, <hi>, <low></low></hi>	
ID ELIVOTICS	AUTO	EXIT + SAVE: Y		LOW
IR FUNCTION	NAANII IAI	IR MANUAL: <c< td=""><td></td><td></td></c<>		
	MANUAL	EXIT + SAVE: Y		
	ALARM PIN	<1> ~ <4>		1
	ALARM SWITCH	<on>, <off></off></on>		OFF
	ALARM TYPE		Open), <nc> (Normal Close)</nc>	N.C.
AL ADM CETTING			EQUENCE>, <autopan>,</autopan>	
ALARM SETTING	ALARM ACTION	<cruise></cruise>	,	PRESET
	PRESET POINT	<001> ~ <256>		1
	SEQUENCE LINE	<1> ~ <8>		1
	AUTOPAN LINE	<1> ~ <4>		1

Item	Layer 1	Layer 2	Layer 3	Default
	CRUISE LINE	<1> ~ <8>		1
	DWELL TIME	<001> ~ <127>	<001> ~ <127> Sec., <always></always>	
	ALARM PRIORITY	<1> ~ <4>	<1> ~ <4>	
	ALARM OUTPUT	<off>, &lt;1&gt;, &lt;2</off>	?>, <both></both>	OFF
	EXIT	YES		
	DETECT SWITCH	<0N>, <0FF>		OFF
	DETECT MODE	<motion></motion>		
	BLOCK MODE	NONE; MOTIO	N: <on>, <off></off></on>	
ALARM DETECT	FRAME SET	NONE; MOTIOI	N: <01> ~ <04>	
	FRAME DISABLE	NONE; MOTIOI	N: <01> ~ <04>	
	THRESHOLD	NONE; MOTIOI	N: <001> ~ <255>	
	EXIT	YES		
WDR FUNCTION	<0N>, <0FF>			OFF
	PRIVACY SWITCH	<on>, <off></off></on>		OFF
	TRANSPARENCY	<0N>, <0FF>		OFF
	COLOR		IITE>, <red>, <green>, <blue>, LOW&gt;,<magenta></magenta></blue></green></red>	BLACK
	SET MASK	<01> ~ <16>	H CENTER: L/R	
PRIVACY MASK			V CENTER: D/U	
			H SIZE <000> ~ <080>	0
			V SIZE <000> ~ <060> EXIT + SAVE	0
	CLEAR MASK	<01> ~ <16>	LATT + SAVE	1
	EXIT	YES		
	TIME DISPLAY	<0N>, <0FF>		OFF
	SET YEAR	<00> ~ <99>		<u> </u>
	SET MONTH	<01> ~ <12>		
TIME SETTING	SET DAY	<00> ~ <31>		
	SET HOUR	<00> ~ <23>		
	SET MINUTE	<00> ~ <59>		
	EXIT+SAVE SWITCH	<on>, <off></off></on>		OFF
	POINT	<01> ~ <32>		1
	HOUR	<00> ~ <23>		0
	MINUTE	<00> ~ <59>		0
		NONE	NO FUNCTION	☆
		V.A. MODE	V.A MODE <on>, <off></off></on>	
SCHEDULE		PRESET	PRESET POINT <001> ~ <256>	
	MODE	SEQUENCE	SEQUENCE LINE <1> ~ <8>	
		AUTOPAN	AUTOPAN LINE <1> ~ <4>	
		CRUISE	CRUISE LINE <1> ~ <8> IR FUNCTION	
		IR FUNC.	<auto>, <on>, <off></off></on></auto>	
	SCHEDULE RESET	YES		
	EXIT	YES		
EXIT OSD	YES			

# 3.3 Configuration Menu

The detailed functions and parameter settings of your high speed dome can be set through the OSD (On Screen Display) menu with a control device, such as a control keyboard. The items in OSD menu are described in the following sections.

**To enter the OSD menu** of the selected camera, press the <CAMERA MENU> key on the control keyboard and hold it for 3 seconds to enter the OSD menu.

**To select the setup item,** use direction keys on a keyboard to move the OSD cursor in the OSD menu.

**To setup items,** use direction keys on a keyboard to move the OSD cursor in the OSD menu. For items with  $\rightarrow$ , press right/left direction keys on the control keyboard to select. For items with  $\downarrow$ , press the <CAMERA MENU> key on the control keyboard to enter their sub menus. For items with  $\rightarrow \downarrow$ , users can use the right/left direction key to select functions, and then press the <CAMERA MENU> key on the control keyboard to enter their sub menus.

For further detailed setup procedures, please refer to the user's manual of your installed control devices.



**NOTE:** In the Camera OSD menu, the <CAMERA MENU> key functions as "ENTER" and "EXIT."

During the Speed Dome Camera's start-up, the **OSD Start Page** will display information including ID number, protocol/baud rate and camera initializing message. Furthermore, when some camera errors occur, the error message(s) will be shown on the screen. If the problem(s) cannot be solved at once, please contact your supplier for assistance.

# 3.3.1 LANGUAGE

The camera supports multi-language OSD operation; the available languages include English, Japanese, Portuguese, Spanish, French, German, Italian, Polish, Russian, Traditional Chinese, Simplified Chinese and Turkish. You can straight set a wanted language on the **MAIN PAGE 1**, as shown below. As you select a language with the arrow keys, the OSD will automatically change to the language you selected. The default language is <ENGLISH>.

MAIN PAGE 1 **LANGUAGE ENGLISH** DEFAULT CAMERA ON **BACKLIGHT** OFF **FOCUS AUTO** AE MODE **ENTER** WBC MODE AUTO SETUP MENU 1 **ENTER** SETUP MENU 2 **ENTER** 

# 3.3.2 DEFAULT CAMERA

The DEFAULT CAMERA option is used to restore some camera settings back to default setting. The settings that are affected include Backlight, Focus, AE, WBC, Aperture and Digital Zoom. Once any one of the items is modified, the setting will become <OFF> automatically. Select <ON> for this item to recall the mentioned camera parameters.

# 3.3.3 BACKLIGHT

The Backlight compensation function prevents the center object from being too dark in surroundings where excessive light is behind the object.

Select <ON> to activate the function; the center object will be brightened in contrast to the edge of the picture (where a backlight would be most likely located).

After completing setup of Backlight, go back to the **Main Page 1** and continue to set the focus relevant values.

MAIN PAGE 1 LANGUAGE **ENGLISH** DEFAULT CAMERA ON OFF BACKLIGHT **AUTO FOCUS** AE MODE **ENTER** WBC MODE **AUTO** SETUP MENU 1 **ENTER** SETUP MENU 2 **ENTER** 

# 3.3.4 **FOCUS**

The focus of the Dome Camera can be operated in two modes: Auto Focus mode and Manual Focus mode.

#### > AUTO

There are three options available for the AF Mode, including Normal mode, Zoom Trigger (Z. TRIG.) mode and PTZ Trigger (PTZ TRIG.) mode. The submenu of AF Mode is shown below:

AF MODE NORMAL EXIT+SAVE YES

#### Normal Mode

In this mode, the camera will keep in focus automatically and continuously in any condition.

# Zoom Trigger Mode

In this mode, AF is activated at the time when zoom is changed.

# PTZ Trigger Mode

In this mode, AF is triggered when the Dome Camera is manipulated to pan, tilt or zoom.

#### • EXIT+SAVE

Press <YES> on this item to save the selected AF Mode.

#### > MANUAL

In this mode, users can adjust focus near/far via the control keyboard's Focus Near/Far key.

After completing setup of focus, go back to the **Main Page 1** and continue to set the AE mode.

MAIN PAGE 1 LANGUAGE **ENGLISH** DEFAULT CAMERA ON OFF **BACKLIGHT FOCUS AUTO** AE MODE **ENTER** WBC MODE AUTO SETUP MENU 1 **ENTER** SETUP MENU 2 **ENTER** 



**NOTE:** The AF mode will be resumed after every boot.

# **3.3.5 AE MODE**

The exposure is the amount of light received by the image sensor and is determined by the width of lens diaphragm opening (iris adjustment), the amount of exposure by the sensor (shutter speed) and other exposure parameters. With this item, users can define how the Auto Exposure (AE) function works.

#### EXPOSURE COMPENSATION

The exposure value rages from <-10.5dB> to <10.5dB>. Select <OFF> to disable the function.

#### > AE MODE

#### AUTO

In this mode, the camera's Brightness, Shutter Speed, IRIS and AGC (Auto Gain Control) control circuits work together automatically to get consistent video output level.

#### SHUTTER

With this option, Shutter Speed takes main control of exposure, and both IRIS and AGC will function automatically in cooperation with shutter speed to achieve consistent exposure output. The shutter speed ranges from 1/10000 to 1/50.

#### IRIS

In this mode, the IRIS function adjusts exposure in higher property. SHUTTER speed and AGC circuit will function automatically in cooperating with IRIS to get consistent exposure output. The IRIS value is fixed at f1.6.

#### Manual

In the mode, users can adjust shutter speed ( $1/10000 \sim 1/50$  for PAL;  $1/10000 \sim 1/60$  for NTSC) and gain value (-3dB  $\sim 28$ dB) for optimized video output.

#### > EXIT

Exit the AE MODE menu and go back to the **Main Page 1** to continue to set the WBC mode.

/			\
	MAIN PAGI	E 1	,
	LANGUAGE	ENGLISH	
	DEFAULT CAMERA	OFF	
	BACKLIGHT	OFF	
	FOCUS	AUTO	
	AE MODE	ENTER	
	WBC MODE	AUTO	
	SETUP MENU 1	ENTER	
	SETUP MENU 2	ENTER	
\			1

# **3.3.6 WBC MODE**

A digital camera needs to find reference color temperature, which is a way of measuring the quality of a light source, for calculating all the other colors. The unit for measuring this ratio is in degree Kelvin (K). You can select one of the White Balance Control modes according to the condition. The following table shows the color temperature of some light sources.

Light Sources	Color Temperature in K
Cloudy Sky	6,000 to 8,000
Noon Sun and Clear Sky	6,500
Household Lighting	2,500 to 3,000
75-watt Bulb	2,820
Candle Flame	1,200 to 1,500

#### > AUTO

In this mode, white balance works within its color temperature range. This mode computes the white balance value output using color information from the entire screen. It outputs the proper value using the color temperature radiating from a black subject based on a range of values from 3000K to 7500K.

#### > INDOOR

3200 K Base mode.

# > OUTDOOR

5800 K Base mode.

# ATW (Auto Tracing White Balance)

The Dome Camera takes out the signals in a screen in the range from 2000 K to 10000 K.

#### MANUAL

In this mode, users can change the White Balance value manually; R gain and B gain are adjustable and range from 000 to 127.

WBC ME	ENU
R GAIN	050
B GAIN	050
EXIT + SAVE	YES

After WBC relevant parameter setups are completed, please exit the WBC MODE menu and go back to the **Main Page 1** to continue to set other functions under the Setup Menu 1.

			_
1	MAIN PAG	GE 1	
ı	LANGUAGE	ENGLISH	
ı	DEFAULT CAMERA	ON	
ı	BACKLIGHT	OFF	
ı	FOCUS	AUTO	
ı	AE MODE	ENTER	
ı	WBC MODE	AUTO	
ı	SETUP MENU 1	ENTER	
l	SETUP MENU 2	ENTER	
	\		/

# 3.3.7 **SETUP MENU 1**

In Setup Menu 1, users could set Zoom Speed and choose whether to activate functions including Digital Zoom, Slow Shutter, Noise Reduction, Image Inverse and Image Freeze. Refer to the following description for use of each function.

SETUP MENU 1 **ZOOM SPEED FAST** MAX. DIGITAL ZOOM OFF SLOW SHUTTER 1/50 D.N.R. 01 OFF IMAGE INVERSE FREEZE **OFF APERTURE** AUTO STABILIZER OFF YES EXIT

#### ZOOM SPEED

This item is used to set the zoom speed of the Dome Camera. Zoom speed is fixed at <8>.

#### DIGITAL ZOOM

With this item, users can enable or disable the 12x Digital Zoom. The Digital Zoom will be activated after the full Optical Zoom level is reached.



**NOTE:** The difference between optical and digital zoom is that optical zoom uses the lens within the camera to draw the image closer via zoom in or out to achieve the desired effect. Optical zoom remains the same quality and full resolution of the zoomed image. On the other hand, Digital zoom takes a portion of an image and expands the partial image to the full size of the original image; therefore, the image quality will be reduced.

Digital zoom ratio is adjustable from <2x> to <12x>. The default setting is <OFF>.

#### > SLOW SHUTTER

The shutter speed determines how long the image sensor is exposed to light. To see clear image in a dark environment, please enable Digital Slow Shutter function and select a slower shutter speed.

As the Digital Slow Shutter function is enabled, the Dome Camera will automatically adjust the shutter speed basing on the light condition of installation environment. It enables users to see objects in a dark environment below 0.1 lux.

#### DIGITAL NOISE REDUCTION

With 2D / 3D Digital Noise Reduction (D.N.R.), the processor analyzes pixel by pixel and frame by frame to eliminate environmental noise signal so that the highest quality image can be produced even in low light conditions. In comparison with 2D D.N.R., 3D D.N.R generates better denoising effects.

#### IMAGE INVERSE

Users can select <ON> to make the displayed image inversed vertically and horizontally (see the figures shown below). Occasions to employ the function include conferences, demonstration, testing, etc. The default setting is <OFF>.

**Application:** Users can see the displayed images, as shown below, when a dome is placed on the desk top in a conference, for instance.

IMAGE INVERSE (OFF)



**IMAGE INVERSE (ON)** 





**NOTE:** When Image Inverse function is enabled, the privacy mask(s) will be set off automatically (refer to <u>3.3.21 PRIVACY MASK</u>).

#### > FREEZE

Freeze function allows to hold the image while the camera is moving between preset positions such as in PRESET (refer to 3.3.12) and SEQUENCE (refer to 3.3.13) modes. For example, when the Dome Camera is manipulated to run from point A to point B, if the Freeze function is activated, the first view that users would see is point A. Then

the next view would directly change to point B without displaying the moving path.

#### APERTURE

Under this setup menu, users can adjust enhancement of the edges of objects in the picture.

There are 16 levels of adjustment; the options are from <01> to <16>; <01> represents "no enhancement". When shooting text, this function could make it sharp.

#### > STABILIZER

With the Image Stabilizer Function, the Speed Dome Camera can capture images that would otherwise be blurred due to the vibration.

Users can select <ON> to turn on the Stabilizer. The default setting is <OFF>.



**NOTE:** If the function is turned on, it will result in 1) WDR function: OFF; 2) Digital Slow Shutter: no function; 3) limitation in Digital Zoom capability.

#### > EXIT

Exit the SETUP MENU 1 and go back to the **MAIN PAGE 1** to set other functions under the Setup Menu 2.

/			\
	MAIN PA	GE 1	
	LANGUAGE	ENGLISH	
	DEFAULT CAMERA	ON	
	BACKLIGHT	OFF	
	FOCUS	AUTO	
	AE MODE	ENTER	
	WBC MODE	AUTO	
	SETUP MENU 1	ENTER	
	SETUP MENU 2	ENTER	
(			

# **3.3.8 SETUP MENU 2**

/			
	SETUP MEN	U 2	,
	FLIP	ENTER	
	ANGLE ADJUSTER	ENTER	
	PT POSITION	ENTER	
	SPEED BY ZOOM	OFF	
	AUTO CALI.	OFF	
	PASSWORD	OFF	
	OSD AUTO CLOSE	20 SEC	
	SYSTEM RESET	ENTER	
	EXIT	YES	/
`			

#### > FLIP

Users can track an object continuously when it passes through under the Dome Camera with setting Flip to IMAGE (digital flip) or M.E. (mechanical flip).

FLIP S	ETTING
FLIP	OFF
EXIT + SET	YES

#### IMAGE

IMAGE represents digital IMAGE FLIP, which enables users to keep tracking objects seamlessly; under the mode, almost no delay occurs in comparing with that under the M.E. mode.



**NOTE:** The Privacy Mask function will be automatically disabled if the Image Flip function is enabled, and "MASK WILL BE SET OFF" will be shown on the screen

# • M.E. (Mechanical Flip)

M.E. is a standard mechanical operation. As the Dome Camera tilts to the maximum angle, it will pan 180°, and then continue tilting to keep tracking objects.



**NOTE:** Flip setting is manual-controlled only. If a Preset or a point for other function (ex. Sequence) is set in the position that can only be reached through FLIP motion, when Flip is off, the position cannot be reached anymore.

#### OFF

Select this item to disable the flip function.



**NOTE:** To make the Dome Camera tilt between a specific range, such as -10° to +100° or -10° to +190°, please go to **ANGLE ADJUSTER** (see next section) to set the angle range of tilt. Otherwise, the dome will tilt 90° as the default setting.

#### ANGLE ADJUSTER

The item is for adjusting the angle range of tilt motion. The Range of the tilt motion varies in different FLIP modes: the angle ranges from -10° to +100° in the M.E. FLIP and FLIP OFF modes, and from -10° to +190° in the IMAGE FLIP mode.

ANGLE ADJUSTER

ADJUST MIN ANGLE -10DEG

ADJUST MAX ANGLE 100DEG

EXIT + SET YES

#### > PT POSITION

PT Position can display the Pan/ Tilt position of Dome Camera on the screen. Refer to 3.1 Display Format for the item displayed location.

PT POSITION
PT DISPLAY OFF
SET PAN ZERO PT MOVE
EXIT + SET YES

#### PT DISPLAY

Turn the item to <ON> to display the pan/tilt position on the screen. The display format will be "XX YYY/ YY".

#### SET PAN ZERO

By using <SET PAN ZERO> function, user can set north direction as coordinate zero.

The display will show eight different directions including N, E, S, W, NE, SE, SW, SN depending on the closest direction Dome Camera faces. The PAN range is from 0° to 359°, and the TILT range is from 10° to -90°. After lower than -90°, the PAN degree will be automatically added 180°.

Press <TO SAVE> to save the pan zero setting.

#### EXIT+SET

Exit the PT POSITION and go back to SETUP MENU 2. And carry on setting other functions.

#### > SPEED BY ZOOM

If the item is set to <ON>, the pan/tilt speed will be automatically adjusted by internal algorithm when zooming. The larger zoom ratio leads to the lower rotating speed.

# > AUTO CALI. (Auto Calibration)

There are one horizontal point and one vertical infrared rays check point in each dome. During installation or maintenance, the Dome Camera's position may be moved. Therefore, the relative distance between the original set point and the check point will be changed. If the Auto Calibration function is enabled, the Dome Camera will automatically detect the matter and reset the horizontal point back to the original position.

#### PASSWORD

The administrator can activate OSD Password function for security concerns. Once the function is turned on, users are required to enter the password every time when accessing to the OSD menu. The Password setting menu is shown below:

NEW PASSWORD:: \_ \_ \_ CONFIRM PASSWORD:: \_ \_ \_ 0123456789

DELETE SAVE EXIT

The password setting procedure is like the following:

STEP 1: Choose a number with direction keys and then press the <CAMERA MENU> key (ENTER) to input. For example: <0> <CAMERA MENU>, <1> <CAMERA MENU>, <2> <CAMERA MENU>, <3> <CAMERA MENU>.
PASSWORD: 0123

STEP 2: In the second line, enter the same password again to confirm the setting.

STEP 3: Move the cursor to <SAVE> and press <**CAMERA MENU>** to save the setting.

STEP 4: Move the cursor to <EXIT> and press <**CAMERA MENU>** to exit the password setting page.

If OSD Password function is enabled, when press the <CAMERA MENU> key to enter the OSD menu, the password request message will be displayed as shown below. Please enter the password, press <ENTER> and then access to the OSD main menu.

PLEASE ENTER PASSWORD

\_\_\_\_

0123456789 DELETE ENTER EXIT



**NOTE:** When first time turning the Password Function on, please enter the Master Passport to setup the new password.

The Master Password: 9527.

#### OSD AUTO CLOSE

Users can specify the duration for OSD menu to stay on the screen. Time selection ranges from 10 to 30 seconds. To keep the OSD menu stay on the screen, please set this option to <OFF>.

#### SYSTEM RESET

Two types of system reset can be implemented under this item:

#### SYSTEM RESET

Select this function for system reboot. Press <ENTER> and system reboot will start up.

#### DEFAULT SYSTEM

This function allows users to restore the camera to its factory default state. Press <ENTER> and reset will start up.

#### > EXIT

Exit the SETUP MENU 2 and go back to the **MAIN PAGE 1**. Then go to the **MAIN PAGE 2** to carry on setting other functions.

_		`	١
	MAIN PAGE 2		
	ID DISPLAY	ON	
	TITLE DISPLAY	OFF	
	TITLE SETTING	01	
	PRESET	ENTER	
	SEQUENCE	ENTER	
	AUTOPAN	ENTER	
	CRUISE	ENTER	
	HOME SETTING	ENTER	
			/

# 3.3.9 ID DISPLAY

Press the direction key down to turn the MAIN MENU page from 1 to 2, and then the menu item <ID DISPLAY> will be shown on the top. Users are allowed to choose whether the Dome Camera's ID will be displayed on screen for identifying the domes. For more information, please refer to <u>2.4 ID</u> Setting.

#### > ON

Display the ID address of the selected dome on the right bottom of the screen.

#### > OFF

Hide the ID address of the selected dome.

# 3.3.10 TITLE DISPLAY

Users are allowed to name a view area, where the title will be displayed on screen for easy recognition.

#### > ON

Select <ON> to display the title set for a view area on screen while the camera shooting the view area.

#### > OFF

When **TITLE DISPLAY** is set <OFF>, no title will be displayed on screen even titles have been set in advance.

# 3.3.11 TITLE SETTING

Up to 16 zone titles can be set with maximum 20 characters for each title.

Follow the steps to set a camera title.

- STEP 1: Operate the dome to a view area where you want to set a title for it.
- STEP 2: Turn on the OSD and go to the **MAIN PAGE 2** to select <TITLE SETTING>.
- STEP 3: Select a number to represent the view area.
- STEP 4: Press the **CAMERA MENU**> key (ENTER) on the keyboard to go into the editing page.

				TITL	E S	ETT	ING	: 01		
0	1	2	3	4	5	6	7	8	9	EXIT
Α	В	С	D	Ε	F	G	Н	1	J	SAVE
K	L	M	Ν	0	Ρ	Q	R	S	Т	LEFT
U	٧	W	X	Υ	Ζ	:	1		,	RIGHT
[	]	+	?	-						DELETE
TIT AE	TLE:	;								

STEP 5: Choose a character with direction keys and then press the <CAMERA MENU> key (ENTER) to input. For example: <A> <CAMERA MENU>, <B> <CAMERA MENU>, <C> <CAMERA MENU>

TITLE: ABC

- STEP 6: To delete input characters, move the cursor to <LEFT> or <RIGHT> and press < CAMERA MENU> to select a character in the entry field. Then move the cursor to <DELETE> and press < CAMERA MENU> to delete the selected character.
- STEP 7: When the setting is completed, move the cursor to <SAVE> and press <**CAMERA MENU>** to save.

After completing title setting, go back to the **MAIN PAGE 2** to carry on setup of preset points.

MAIN PA	AGE 2	\
ID DISPLAY	ON	
TITLE DISPLAY	OFF	
TITLE SETTING	01	
PRESET	ENTER	
SEQUENCE	ENTER	
AUTOPAN	ENTER	
CRUISE	ENTER	
│ HOME SETTING	ENTER	
		/

# 3.3.12 **PRESET**

#### > PRESET SET

Totally 256 preset points can be set. Follow the steps below when in the preset setting menu.

- STEP 1: Press the right/left key on the keyboard to select a number (001 represents preset point 1, 002 represents preset point 2, etc.)
- STEP 2: Press the **<CAMERA MENU>** key (ENTER) on the keyboard and then move the Dome Camera to a targeted shooting area/point.
- STEP 3: Press the **<CAMERA MENU>** key again to save the defined preset point.

Once completing setup of a preset point, users could move the cursor to the next item to run the preset point.

#### > PRESET RUN

Press the **CAMERA MENU**> key (ENTER), and the camera will go to the appointed point. To run other defined preset point, simply press the right/left key on the keyboard, select the preset point that you want to go, and press the **CAMERA MENU**> key (ENTER) again.

#### > EXIT

Exit the PRESET menu and go back to the **MAIN PAGE 2** to carry on setup of sequence.

	MAIN PAGE	2
	ID DISPLAY	ON
	TITLE DISPLAY	OFF
	TITLE SETTING	01
	PRESET	ENTER
	SEQUENCE	ENTER
	AUTOPAN	ENTER
	CRUISE	ENTER
	HOME SETTING	ENTER
/		



**NOTE:** Users could set Preset Points through a keyboard. Please refer to the control keyboard's quick guide for further information.

# 3.3.13 SEQUENCE

The function executes pre-positioning of the pan, tilt, zoom and focus features in a certain sequence for a camera. Before setting this function, users must pre-define at least two preset points.

SEQUENCE

SEQUENCE LINE 1

SEQUENCE POINT 01

PRESET POSITION 001

SPEED 01

DWELL TIME 001

RUN SEQUENCE ENTER

EXIT YES

#### > SEQUENCE LINE

There are eight sets of sequence lines built in the Dome Camera. Using LEFT/RIGHT direction keys to select a line first and then set its sequence points.

#### SEQUENCE POINT

Up to 64 points can be setup for each Sequence line. The Sequence Points represent order of the preset points that the Dome Camera will automatically run. The following setup items, including PRESET POSITION, SPEED and DWELL TIME, will influence how the camera runs through each sequence point.

#### PRESET POSITION

Users can assign a specific preset position to the selected Sequence Point with this item. Options include "1~255" and "END." END is used for the Sequence Point following the last Sequence Point when the amount of sequence points (see the previous section) is less than 64 points.



**NOTE:** If not using all 64 points, please set the point following the last Sequence Point as "END" (PRESET POSITION) so that the sequence line can work properly. For example, if a user intends to set a Sequence Line with 5 sequence points. It is required to set the PRESET POSITION of Sequence Point 06 as "END."

#### > SPEED

Users can set the pan/tilt speed of the Dome Camera from one Sequence Point to the next one, and the range of setup speed is from 1 to 15. Within the range, PAN speed varies from 10 to 400 (degree/sec.), and TILT speed varies from 8 to 400(degree/sec.).

#### > DWELL TIME

The DWELL TIME is the duration time that the Dome Camera will stay at a Sequence Point, and the range is from <000> to <127> seconds. The Dome Camera will go to the next sequence point when the DWELL TIME expires. If the setting is <000>, the Dome Camera will stay at this Sequence Point for less than 1 second and then shift to the next point.

#### > RUN SEQUENCE

Users can command the Dome Camera to run the selected Sequence line manually. Press the **<CAMERA MENU>** key (ENTER) to execute a sequence line.

#### > EXIT

Select the item to exit the SEQUENCE menu; go back to the **MAIN PAGE 2** to carry on setup of Auto-Pan.

_		
	MAIN PAG	SE 2
	ID DISPLAY	ON
	TITLE DISPLAY	OFF
	TITLE SETTING	01
	PRESET	ENTER
	SEQUENCE	ENTER
	AUTOPAN	ENTER
	CRUISE	ENTER
	HOME SETTING	ENTER



**NOTE:** Users could execute the Sequence function through a keyboard. Please refer to the control keyboard's quick guide for further information.

# 3.3.14 **AUTOPAN**

Auto-Pan means motion of scanning an area horizontally so that the Dome Camera can catch horizontal view. The parameters are listed as follows.

AUTOPAN
AUTOPAN LINE 1
START POINT TO FIND
END POINT TO FIND
DIRECTION RIGHT
SPEED 01
RUN AUTOPAN ENTER
EXIT YES

#### AUTOPAN LINE

There are four sets of Auto-Pan line built in a Dome Camera. Users can choose a line to execute by pressing LEFT/RIGHT direction keys. In addition, users are able to command the Dome Camera to do endless panning by setting the start point the same as the end point.

#### START POINT

Follow the description below to set the start position of the AUTOPAN path.

- STEP 1: Move the cursor to <START POINT> and press <ENTER> while the item, <PT MOVE>, is flashing. Then the item will turn <TO SAVE> automatically.
- STEP 2: Move the dome to a desired position and press <ENTER> to save the position as the start point; the cursor will move to <END POINT> automatically. Ensure setting the end point to complete auto-pan setting.



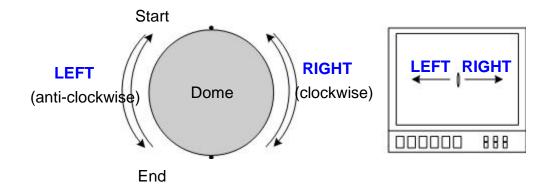
**NOTE:** The tilt and zoom values of the start point will be recorded and **fixed** for the selected Auto-Pan line.

# > END POINT

Users are able to set the end point after the start point is defined. Pan the Dome Camera to another position and press <ENTER> to save the position as the end point.

#### DIRECTION

The item is for setting the AUTOPAN direction of the Dome Camera. The dome will start to pan clockwise from the start point to the end point if your selection is <RIGHT>, and then return to the start point. The dome will start to pan anti-clockwise from the start point to the end point if your selection is <LEFT>. Refer to the diagram below.



#### > SPEED

The item is for defining the Dome Camera rotation speed while running auto-pan. The speed is adjustable from 1 to 4 (10 ~ 45 degree/sec.).

#### RUN AUTOPAN

After all setting related to Auto-Pan are completed, select this item to execute the Auto-pan function. Press the **CAMERA MENU**> key (ENTER) to run an Auto-Pan path.

#### > EXIT

Exit the AUTOPAN setup menu; go back to the **MAIN PAGE 2** to carry on setup of Cruise.

		1
MAIN P	AGE 2	1
ID DISPLAY	ON	
TITLE DISPLAY	OFF	
TITLE SETTING	01	
PRESET	ENTER	
SEQUENCE	ENTER	
AUTOPAN	ENTER	
CRUISE	ENTER	
HOME SETTING	ENTER	
		ノ



**NOTE:** Users could execute the Auto-Pan function through a keyboard. Please refer to the control keyboard's quick guide for further information.

# 3.3.15 **CRUISE**

CRUISE is a route formed with manual operation, through adjusting pan, tilt position and zoom parameters, which can be stored and recalled to execute repeatedly.

CRUISE

CRUISE LINE 1

RECORD START ENTER

RECORD END ENTER

RUN CRUISE ENTER

RUN CRUISE ENTI

#### CRUISE LINE

Up to eight sets of Cruise routes can be created for one camera. Using LEFT/RIGHT direction keys to select a line first and then follow the steps below to start recording the Cruise route.

#### RECORD START

Follow the description below to record the CRUISE path.

STEP 1:Rotate the Dome Camera to a desired view area (for some protocols, users may need to do it before entering the OSD), and press <ENTER> to build the cruise path using the joystick on the control device. The percentage of the memory buffer used will be displayed on the screen.

STEP 2: Pan, tilt and zoom the Dome Camera to form a path.



**NOTE:** Beware of the memory size when building a Cruise route. Once the buffer percentage reaches 100%, recording of the path will stop.

#### RECORD END

The cursor will be moved to RECORD END while building the Cruise route; when the setting is completed, press <ENTER> to save the route.

#### RUN CRUISE

After cruise setting is completed, press the **CAMERA MENU**> key (ENTER) to run the defined Cruise path.

#### > EXIT

Exit the CRUISE setup menu; go back to the **MAIN PAGE 2** to carry on setup of Home Setting.

/			,
	MAIN PAGE	2	
	ID DISPLAY	ON	
	TITLE DISPLAY	OFF	
	TITLE SETTING	01	
	PRESET	ENTER	
	SEQUENCE	ENTER	
	AUTOPAN	ENTER	
	CRUISE	ENTER	
	HOME SETTING	ENTER	
			,



**NOTE:** Users could execute the Cruise function through a keyboard. Please refer to the control keyboard's quick guide for further information.

# 3.3.16 V.A. MODE

V.A. MODE (Video Analytics) consists of algorithms that detect movement or changes to see whether the movement or changes mean a possible threat is about to occur or occurring. These algorithms work by examining each pixel of the video and putting together all the pixel changes. If many pixels are changing in one area and that area is moving in a direction, the software considers this to be motion. Depending on the policies and alerts you have setup, you will be notified of this motion or other actions can be automatically taken by the software such as motion tracking which follows the motion until it is no longer detected.

#### V.A. MODE

Turn <ON> or <OFF> the Video Analytics function to start or stop tracking motions.

#### MOTION BLOCK

Users can set Motion Block as <ON> or <OFF> when the V.A. Mode is activated. When the Motion Block is turned on, if there is any variation in the sections of the monitoring image, the affected parts will be highlighted dynamically by a bunch of white motion blocks.

#### BOUNDING BOX

Users can set Bounding Box as <ON> or <OFF> when the V.A. Mode is activated. When the Bounding Box is turned on, if there is any variation in the sections of the monitoring image, the affected parts will be highlighted dynamically by a big purple bounding box. The size of the bounding box is depending on the biggest range of the moving object.

#### > THRESHOLD

The Threshold range is adjustable from 1 to 255. The smaller the value, the more sensitive it is; i.e. 1 is the highest sensitivity; 255 is the lowest sensitivity.

(	V.A. MODE		
	V.A. MODE	ON	
	MOTION BLOCK	OFF	
	BOUNDING BOX	OFF	
	THRESHOLD	1	
	EXIT	YES	
\			

# 3.3.17 HOME SETTING

Users are able to set an operation mode to ensure constant monitoring. If the Dome Camera idles for a period of time, the selected function will be activated automatically; this is the HOME function. The HOME function allows constant and accurate monitoring to avoid the Dome Camera idling or missing events.

HOME SETTING
HOME FUNCTION OFF
SELECT MODE PRESET
PRESET POINT 001
RETURN TIME 001MIN.
GO ENTER
EXIT YES

#### > HOME FUNCTION

The item is used to enable or disable the HOME function. Use the left/right direction keys of the control keyboard to change the setting.

#### SELECT MODE

Select one of the modes that the Dome Camera should execute when the HOME function is enabled and the RETURN TIME expires. The options include <AUTOPAN>, <SEQUENCE>, <CRUISE> and <PRESET>. Use the left/right direction keys of the control keyboard to change the setting, and the items below will change in cooperating with your selection.

#### PRESET POINT

Select a preset point where the dome should go after the Return Time function, which will be mentioned later, is activated. The preset point(s)

should be set prior either in the PRESET setup menu or through the keyboard.

#### SEQUENCE LINE

Select a sequence line that the Dome Camera should execute after the Return Time function is activated. The sequence line(s) should be defined prior either in the SEQUENCE setup menu or through the keyboard.

#### AUTOPAN LINE

Select an auto-pan line that the Dome Camera should execute after the Return Time function is activated. The auto-pan line(s) should be defined prior either in the AUTOPAN setup menu or through the keyboard.

#### > CRUISE LINE

Select a cruise line that the Dome Camera should execute after the Return Time function is activated. The cruise line(s) should be defined prior either in the CRUISE setup menu or through the keyboard.

#### RETURN TIME

The dome starts to count down RETURN TIME when the dome idles, and then execute the SELECT MODE function when the return time is up. The RETURN TIME ranges from 1 to 128 minutes.

#### ➢ GO

If HOME function is enabled, users are allowed to execute HOME function by selecting this item.

#### > EXIT

Exit the HOME SETTING menu. Then go to the **MAIN PAGE 3** to carry on other setups.

(	MAIN	PAGE 3
	IR FUNCTION	AUTO
	ALARM SETTING	ENTER
	ALARM DETECT	NONE
	WDR FUNCTION	OFF
	PRIVACY MASK	ENTER
	TIME SETTING	ENTER
	SCHEDULE	ENTER
	EXIT OSD	YES
\		

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# 3.3.18 IR FUNCTION (Removable IR Cut Filter)

With the IR cut filter, the Dome Camera can still catch clear images at night time or in low light conditions. During day time, the IR cut filter will be on to block the infrared light for clear image; during night time, the IR cut filter will be removed to catch infrared light, and the displayed images will become black and white.

#### > AUTO

The Internal circuit will automatically decide the occasion to remove the IR cut filter according to the value of light condition calculated by the internal light algorithm. The options include <LOW>, <MID> and <HI>. <LOW> indicates a higher sensitivity and can improve reliability of lens so that it is easier to switch to Day mode and relatively difficult to change into Night mode; while <HI> indicates that it is easier to switch to Night mode and difficult to change into Day mode.

#### MANUAL

#### IR MANUAL ON

Select the item to remove the IR cut filter; the camera will be in B/W (Night) mode.

#### IR MANUAL OFF

Select the item to attach the IR cut filter; the camera will be in Color (Day) mode to disable the IR function.

# 3.3.19 ALARM SETTING

The integrated high speed dome provides eight alarm inputs and one alarm output (N.O. or N.C) to connect alarm devices. With this function, the Dome Camera can cooperate with alarm system to catch events' images. For wiring, please refer to the installation guide and/or qualified service personnel. Adjustable alarm parameters are listed as below.

/			_
′	ALARM SETTING		
	ALARM PIN	1	
	ALARM SWITCH	OFF	
	ALARM TYPE	N.C.	
	ALARM ACTION	PRESET	
	PRESET POINT	001	
	DWELL TIME	<b>ALWAYS</b>	
	ALARM PRIORITY	1	
	EXIT	YES	
$\setminus$			

#### ALARM PIN

The dome provides 4 alarm inputs and 2 output (N.O. or N.C.). Select an alarm connector which you want to set its alarm-related parameters with this item, and then set its alarm-related parameters in the Alarm Setting menu. For alarm pin definitions, please refer to <u>2.6 22-Pin Connector Definition</u> or the installation guide.



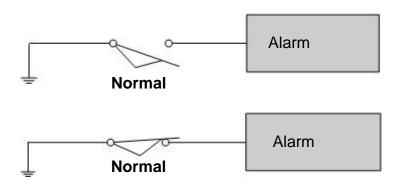
**NOTE:** If two or more alarm pins are triggered at the same time, smaller alarm pin number will have higher priority of being handled. For example, if Alarm-1 and Alarm-3 are triggered simultaneously, only Alarm-1 will actually be handled.

#### ALARM SWITCH

The item is used to enable or disable the selected alarm pin function. Use the left/right direction keys on the control keyboard to change the setting.

#### ALARM TYPE

There are two kinds of alarm types: Normal Open and Normal Close, which are illustrated as below. Select an alarm type that corresponds with the alarm application.



#### ALARM ACTION

The alarm actions include PRESET, SEQUENCE, AUTOPAN and CRUISE functions. Select one of these modes so that certain action will

be executed when an alarm is triggered. Use the right direction key of the control keyboard to select a particular action mode, and the items listed below will change in accordance with your selected alarm action. Additionally, when an alarm is triggered, there will be a flash warning notice: ALARM displayed in the upper right corner of the screen.



**NOTE:** When alarm condition (dwell time setting: 1~127 seconds/ ALWAYS) is released, the Dome Camera will go back to the previous status before alarm was triggered.

#### > PRESET POINT

Select a preset point where the Dome Camera should go when an alarm pin is triggered. The preset point(s) should be set prior either in the PRESET setup menu or through the keyboard.

#### SEQUENCE LINE

Select a sequence line that the Dome Camera should execute when an alarm pin is triggered. The sequence line(s) should be defined prior either in the SEQUENCE setup menu or through the keyboard.

#### AUTOPAN LINE

Select an auto-pan line that the Dome Camera should execute when an alarm pin is triggered. The auto-pan line(s) should be defined prior either in the AUTOPAN setup menu or through the keyboard.

#### > CRUISE LINE

Select a cruise line that the Dome Camera should execute when an alarm pin is triggered. The cruise line(s) should be defined prior either in the CRUISE setup menu or through the keyboard.

# > DWELL TIME

The DWELL TIME is duration of executing an alarm action. If the PRESET mode is selected, the Dome Camera will go to the selected preset position and stay there for a user-defined period of time (1~127seconds/Always) when alarm takes place until alarm condition is released or users rotate the joystick to change the status of the Dome Camera.

If other modes (SEQUENCE/AUTOPAN/CRUISE) have been selected, the camera will keep executing the selected mode (DWELL TIME:

ALWAYS) until alarm condition is released or users rotate the joystick to change the status of the Dome Camera.



**NOTE:** The dwell time is only adjustable when selecting **Preset** as the alarm action. When the dwell time is up, the Dome Camera will go back to its trigger position and recheck alarm pin status.

#### ALARM PRIORITY

Set alarm priority from <1> to <4> for each alarm pin. If two or more alarms are triggered at the same time, smaller alarm priority number will have higher priority of being handled. The default alarm priority is <1>.

#### ALARM OUTPUT

There are two alarm outputs for Camera. Users can set <1>, <2>, <both> or <OFF> to trigger the alarm output devices when alarm is triggered.

#### > EXIT

Exit the ALARM SETTING menu and go back to the **MAIN PAGE 3** to carry on setup of Alarm Detect.

After exiting the ALARM SETTING menu, go back to the **MAIN PAGE 3** to carry on setup of Privacy Mask function. Thus please skip the next section and go to 3.3.21 PRIVACY MASK to continue setup of Privacy Mask function.

/			
,	MAIN F	PAGE 3	)
	IR FUNCTION	AUTO	
	ALARM SETTING	ENTER	
	ALARM DETECT	NONE	
	WDR FUNCTION	OFF	
	PRIVACY MASK	ENTER	
	TIME SETTING	ENTER	
	SCHEDULE	ENTER	
	EXIT OSD	YES	

# 3.3.20 ALARM DETECT

When the Alarm Detect function is activated, the camera will detect movement within a monitoring area and then send an alarm signal automatically. There will be a flash warning notice: MOTION displayed in the upper left corner of the screen. ALARM DETECT
DETECT SWITCH OFF
DETECT MODE NONE
BLOCK MODE NONE
FRAME SET NONE
FRAME DISABLE NONE
THRESHOLD NONE
EXITD YES

#### > DETECT SWITCH

The item is used to enable or disable the ALARM DETECT function.

#### DETECT MODE

Four alarm detect modes are provided for different application.

# • INT FOCUS (Internal Focus)

The alarm will be triggered if the internal focus changes; if the focus returns to the original position, the alarm will stop.

#### FIX FOCUS

If focus movement is detected, the alarm will be triggered, and the alarm stops when focus returns to the original position. If the detected focus movement keeps changing for more than four seconds, the new focus position will be memorized as the reference, and the alarm will stop.



**NOTE:** The INT FOCUS and FIX FOCUS detect modes will be activated only with the Auto Focus mode.

#### INT AE (Internal AE)

When Auto Exposure (AE) movement is detected, the alarm will be triggered; if the Exposure Level returns to the original level, the alarm will stop.

#### FIX AE

The alarm will be triggered if the Exposure value changes; if the adjusted AE value retains for four seconds, the value will be saved as the reference, and the alarm will stop.

#### MOTION

Motion Detection function allow detecting suspicious motion and triggering alarms when motion volume in the detected area

reaches/exceeds the determined sensitivity threshold value. The main menu is shown as below:

/			_
(	ALARM I	DETECT	
	DETECT SWITCH	OFF	
	DETECT MODE	MOTION	
	BLOCK MODE	ON	
	FRAME SET	01	
	FRAME DISABLE	01	
	THRESHOLD	016	
	EXITD	YES	
			,

#### BLOCK MODE

In Motion Detect Mode, users can set Block Mode as "ON" or "OFF". When BLOCK MODE is turned on, if there are any variations (e.g. caused by intrusion) in the sections of the monitoring image, the affected parts will be highlighted dynamically.

#### > FRAME SET

In a monitored field, users can define specific areas as motion detection target zones. Please refer to the instructions as follows to configure parameters for each motion detection zone so-called "Frame." When motion is detected within a defined frame, a flash warning notice: MOTION, will display in the upper left corner of the screen.

Total four frames can be set. Select a frame using the right/left keys on the keyboard, and press "ENTER" key to enter the frame's submenu, as shown below.

FRAME	SET 1
LEFT LIMIT	L/R
TOP LIMIT	D/U
H SIZE	000
V SIZE	000
MODE	PRESET
PRESET POINT	001
DWELL TIME	001 SEC
EXIT	YES

#### LEFT LIMIT

Move the frame right/left using the right/left keys on the keyboard.

#### TOP LIMIT

Shift the frame up/down using the right/left keys on the keyboard.

#### H/V SIZE

Adjust the frame size via changing H/V size value using the right/left keys on the keyboard.

#### MODE

Assign a trigger action for a motion detection frame. Options include PRESET, SEQUENCE, AUTOPAN and CRUISE. When motion is detected within a frame, the Dome Camera will execute the specific trigger action.

#### DWELL TIME

The DWELL TIME is duration of executing a trigger action. If select the PRESET mode, when motion is detected, the Dome Camera will go to the selected Preset position and stay there for a user-defined period of time (1~127 seconds/Always) until alarm condition is released or users rotate the joystick to change the status of the Dome Camera.

If select other modes (SEQUENCE/AUTOPAN /CRUISE), the Dome Camera will keep executing the selected mode (DWELL TIME: ALWAYS) until alarm condition is released or users rotate the joystick to change the status of the Dome Camera.

#### EXIT

Exit the FRAME setting page and go back to ALARM DETECT main page.

#### FRAME DISABLE

Select a frame to be canceled, and press "ENTER." The selected frame will then be removed from the monitored field.

#### > THRESHOLD

The Threshold range is adjustable from 1 to 255. The smaller the value, the more sensitive it is; i.e. 1 is the highest sensitivity; 255 is the lowest sensitivity.

#### > EXIT

Exit the ALARM DETECT menu and go back to the **MAIN PAGE 3** to carry on setup of WDR function (refer to <u>3.3.20 WDR FUNCTION</u>).

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# 3.3.21 WDR FUNCTION

The Wide Dynamic Range (WDR) function is especially effective in solving indoor and outdoor contrast issues to enhance better image quality and video display. It enables the dome to catch detailed data from the dark part (Indoor) without any saturation from the bright part (Outdoor).

#### > ON

Activate the WDR function by selecting this option. In this mode, the Dome Camera will operate the WDR function automatically.

#### > OFF

Deactivate the WDR function.

Exit the WDR FUNCTION menu and go back to the **MAIN PAGE 3** to carry on setup of Privacy Mask.

MAIN PAG	SE 3	
IR FUNCTION	AUTO	
ALARM SETTING	ENTER	
ALARM DETECT	NONE	
WDR FUNCTION	OFF	
PRIVACY MASK	ENTER	
TIME SETTING	ENTER	
SCHEDULE	ENTER	
EXIT OSD	YES	

# 3.3.22 PRIVACY MASK

The Privacy Mask function aims to avoid any intrusive monitoring. Users can adjust the camera view position by the joystick, and adjust the mask size and area via the direction keys on the control keyboard. When setting a mask, it is suggested to set it at least *twice bigger* (height and width) than the masked object. The Dome Camera will assume the center of the selected view as a starting point, and the joystick will be locked as users enter the SET MASK menu (mentioned later). Refer to the following description for setting privacy masks.



**NOTE:** The Image Flip function and the Image Inverse function will be disabled automatically while the Privacy Mask function is enabled.

The available area for setting a privacy mask is restricted within tilt angle 70 degrees. Maximum 20 masks can be displayed in one scene. All the settings are described as the following:

PRIVACY MASK MENU
PRIVACY SWITCH OFF
TRANSPARENCY OFF
COLOR BLACK
SET MASK 01
CLEAR MASK 01
EXIT YES

#### PRIVACY SWITCH

Users can enable or disable the Privacy Mask function through this item. Set this item to <ON> before configuring mask zones.

#### TRANSPARENCY

The color of privacy mask can be set as transparent. Select <ON> to display transparent masks.

#### COLOR

The color of privacy mask can be set through this item. The available colors are black, HI/LO gray, white, red, green, blue, cyan, yellow and magenta.

#### > SET MASK

Use the control device to move the Dome Camera to the area where you want to set a mask. Press <ENTER> to enter the SET MASK menu. The Dome Camera will memorize the present position as a privacy mask position.

MASK01 MENU	
H CENTER L/R	
V CENTER D/U	
H SIZE 000	
V SIZE 000	
EXIT+SAVE YES	

#### H CENTER

The original horizontal center of a mask zone is the center of a screen; it is able to move a mask zone to the other position by adjusting the horizontal value with the LEFT/RIGHT keys on the keyboard. The camera will pan right or left according to user's control.

#### V CENTER

The original vertical center of a mask zone is the center of a screen; it is able to move a mask zone to the other position by adjusting the vertical value with the LEFT/RIGHT keys on the keyboard. The camera will tilt up or down according to user's control.

#### • H SIZE (00~80)

Users can adjust the horizontal size of a privacy mask through this item. Set the H and V size to 0 can also delete the selected mask.

# V SIZE (00~60)

Users can adjust the vertical size of a privacy mask through this item. Set the H and V size to 0 can also delete the selected mask.

#### > CLEAR MASK

Users can delete a preset mask zone with this item. Please follow the steps listed below.

STEP 1: Select the mask zone that will be erased (e.g. 01).

STEP 2: Press <ENTER> to confirm the selection.

#### > EXIT

Exit the PRIVACY MASK menu and go back to the **MAIN PAGE 3** to carry on setup of time related setting.

/			\
	MAIN F	PAGE 3	
	IR FUNCTION	AUTO	
	ALARM SETTING	ENTER	
	ALARM DETECT	NONE	
	WDR FUNCTION	OFF	
	PRIVACY MASK	ENTER	
	TIME SETTING	ENTER	
	SCHEDULE	ENTER	
	EXIT OSD	YES	
◟			Ϊ

# 3.3.23 TIME SETTING

The time setting function is used to set the TIME related parameters of the integrated high speed dome. Each item in the menu is listed as follows.

$\overline{}$	$\overline{}$
TIME SETT	ING
TIME DISPLAY	OFF
SET YEAR	00
SET MONTH	01
SET DAY	00
SET HOUR	00
SET MINUTE	00
FXIT+SAVF	YES

#### > TIME DISPLAY

Select <ON> to display time information on the screen or <OFF> not to display.

#### YEAR / MONTH / DAY

The items are for setting up the system date.

# HOUR / MINUTE

The items are for setting up the system time.

# > EXIT+SAVE

Exit the TIME SETTING menu and go back to the **MAIN PAGE 3** to carry on setup of schedule.

/			
	MAIN PA	GE 3	,
	IR FUNCTION	AUTO	
	ALARM SETTING	ENTER	
	ALARM DETECT	NONE	
	WDR FUNCTION	OFF	
	PRIVACY MASK	ENTER	
	TIME SETTING	ENTER	
	SCHEDULE	ENTER	
	EXIT OSD	YES	

# **3.3.24 SCHEDULE**

The schedule function enables users to program a preset point or function (Sequence/Auto-pan/Cruise) automatically to perform in a specific period of time.

$\langle$	SCHEDULE	
	SWITCH	OFF
	POINT	00
	HOUR	00
	MINUTE	00
	MODE	PRESET
	PRESET POINT	001
	SCHEDULE RESET	YES
	FXIT	YES
`	_	

#### > SWITCH

Select <ON> to enable or <OFF> to disable the schedule function.

#### > POINT

Users are allowed to arrange 64 sets of schedule point, i.e. each set of schedule point can be assigned one kind of schedule modes.

#### HOUR / MINUTE

The items are for setting up the time to execute each schedule point.

#### > MODE

This is for setting the schedule function of the selected schedule point; the options are listed as follows.

#### NONE

No action will be executed for the schedule if select the item.

#### • V.A. MODE

Users can select the V.A. mode as an action carried out in a

schedule point.

#### PRESET

Users can select the PRESET mode as an action carried out in a schedule point.

#### SEQUENCE

Users can select the SEQUENCE mode as an action carried out in a schedule point.

# AUTOPAN

Users can select the AUTOPAN mode as an action carried out in a schedule point.

#### CRUISE

Users can select the CRUISE mode as an action carried out in a schedule point.

# IR FUNC. (IR Function)

If the IR function mode is selected, the AUTO IR FUNCTION will be activated for a schedule point.

#### > SCHEDULE RESET

Users can reset the whole schedule with the item.

#### > EXIT

Exit the SCHEDULE menu and go back to the MAIN PAGE 3.

# 3.3.25 **EXIT OSD**

To exit the OSD setup menu, users can either select this item on the bottom of **MAIN PAGE 3** or press the ESC key on the control keyboard.

# **OSD Menu Notes**

The following OSD menu tables are provided for users to record various camera settings.

Item	Laver 1	Layer 2	Layer 3	Notes	
LANGUAGE	<pre><english>, <japanese>, <portuguese>, <spanish>, <french>,   <german>, <italian>, <polish>, <russian>, <traditional chinese="">,<simplified chinese="">, <turkish></turkish></simplified></traditional></russian></polish></italian></german></french></spanish></portuguese></japanese></english></pre>				
DEFAULT CAMERA	<on>, <off></off></on>				
BACKLIGHT	<on></on>				
271011210111	<off></off>	T			
FOCUS			AL>, <z. trig.="">, <ptz trig.=""></ptz></z.>		
	MANUAL	1.0FF			
	EXPOSURE COMP.	<off>, EXPOSURE VALUE: &lt;-10.5dB&gt; ~ &lt;10.5dB&gt; EXIT + SAVE: YES</off>			
		EXIT FOXIVE: FEE	BRIGHT VALUE/ SHUTTER		
			SPEED/ IRIS VALUE/		
		AUTO	GAIN VALUE: AUTO		
			EXIT + SAVE: YES		
			SHUTTER SPEED PAL: <1/50> ~ <1/10000> SEC.		
		SHUTTER	NTSC: <1/60> ~ <1/10000> SEC.		
AE MODE		GHOTTER			
AL MODE	AE MODE		EXIT + SAVE: YES		
	/ L WODE	IRIS	IRIS VALUE <f1.6></f1.6>		
		11(10	EXIT + SAVE: YES		
			BRIGHT VALUE: AUTO		
			SHUTTER SPEED		
		NAANILIAI	PAL: <1/50> ~ <1/10000> SEC.		
		MANUAL	NTSC: <1/60> ~ <1/10000> SEC.  IRIS VALUE <f1.6></f1.6>		
			GAIN VALUE <-3>dB ~ <28>dB		
			EXIT + SAVE: YES		
	EXIT+ SAVE	YES	EXIT + OAVE. TEO		
	AUTO (Auto White Bala				
	INDOOR				
	OUTDOOR				
WBC MODE	ATW (Auto-tracing WBC	C)			
		R GAIN <000> ~ <			
	MANUAL	B GAIN <000> ~ <			
		EXIT + SAVE: YES			
	ZOOM SPEED	<8>			
	MAX. DIGITAL ZOOM				
	SLOW SHUTTER	<on>, <off></off></on>			
	DND	2D N.R. <0N>, <0FF>			
SETUP MENU 1	D.N.R.	3D N.R. <on>, <off></off></on>			
SETOF WILNO	IMAGE INVERSE	EXIT + SAVE: YES <on>, <off></off></on>			
	FREEZE	<0N>, <0FF>			
	APERTURE	<01> ~ <16>			
	STABLIZER	<on>, <off></off></on>			
	EXIT	YES			
		<off>, <m.e.>, <in< th=""><th>MAGE&gt;</th><th></th></in<></m.e.></off>	MAGE>		
	FLIP	EXIT + SET: YES			
		MIN ANGLE <-10 ~	+10 DEG>		
OFTUD MENU:	ANGLE ADJUSTER	MAX ANGLE <080 ~ 100 DEG>			
SETUP MENU 2		EXIT + SET: YES			
		PT DISPLAY	<0N>, <0FF>		
	PT POSITION	SET PAN ZERO	<pt move="">, <to save=""></to></pt>		
		EXIT + SET	YES		
		•	•		

Item	Layer 1	Layer 2 Layer 3	Notes
	SPEED BY ZOOM	<0N>, <0FF>	
	AUTO CALI.	<0N>, <0FF>	
	PASSWORD	<on>, <off></off></on>	
	OSD AUTO CLOSE	<off>, &lt;5&gt; ~ &lt;30&gt; SEC.</off>	
	SYSTEM RESET	SYSTEM RESET <yes> DEFAULT SYSTEM <yes> EXIT <yes></yes></yes></yes>	
	EXIT	YES	
ID DISPLAY	<on>, <off></off></on>	1 :==	
TITLE DISPLAY	<on>, <off></off></on>		
TITLE SETTING	<01> ~ <16>		
	PRESET SET	<001>~<256>	
PRESET	PRESET RUN	<001>~<256>	
	EXIT	YES	
	SEQUENCE LINE	<1> ~ <8>	
	SEQUENCE POINT	<01> ~ <64>	
	PRESET POS.	<001> ~ <255>, <end></end>	
SEQUENCE	SPEED	<01> ~ <15>	
	DWELL TIME	<000> ~ <127> SEC.	
	RUN SEQUENCE	ENTER	
	AUTOPAN LINE	YES <1> ~ <4>	
	START POINT	<pt move="">, <to save=""></to></pt>	
	END POINT	<pt move="">, <to save=""></to></pt>	
AUTOPAN	DIRECTION	<right>, <left></left></right>	
AUTOLAN	SPEED	<01> ~ <04>	
	RUN AUTOPAN	ENTER	
	EXIT	YES	
	CRUISE LINE	<1> ~ <8>	
	RECORD START	ENTER	
CRUISE	RECORD END	ENTER	
	RUN CRUISE	ENTER	
	EXIT	YES	
	V.A. MODE	<0N>, <0FF>	
	MOTION BLOCK	<0N>, <0FF>	
V.A. MODE	BOUNDING BOX	<0N>, <0FF>	
	THRESHOLD	<1> ~ <255>	
	HOME FUNCTION	YES CON>, <off></off>	
	HOIVIE FUNCTION	<preset>, <sequence>, <autopan>,</autopan></sequence></preset>	
	SELECT MODE	<cruise></cruise>	
	PRESET POINT	<001> ~ <256>	
	SEQUENCE LINE	<1> ~ <8>	
HOME SETTING	AUTOPAN LINE	<1> ~ <4>	
	CRUISE LINE	<1> ~ <8>	
	RETURN TIME	<1> ~ <128> MIN.	
	GO	ENTER	
	EXIT	YES	
ID FUNCTION	AUTO	THRESHOLD <mid>, <hi>, <low> EXIT + SAVE: YES</low></hi></mid>	
IR FUNCTION	MANUAL	IR MANUAL: <on>, <off> EXIT + SAVE: YES</off></on>	
	ALARM PIN	<1> ~ <4>	
	ALARM SWITCH	<on>, <off></off></on>	
	ALARM TYPE	<no> (Normal Open), <nc> (Normal Close)</nc></no>	
ALARM SETTING	ALARM ACTION	<preset>, <sequence>, <autopan>, <cruise></cruise></autopan></sequence></preset>	
	PRESET POINT	<001> ~ <256>	
	SEQUENCE LINE	<1> ~ <8>	
	AUTOPAN LINE	<1> ~ <4>	
	CRUISE LINE	<1> ~ <8>	

Item	Layer 1	Layer 2	Layer 3	Notes		
	DWELL TIME	<001> ~ <127> Sec., <always></always>				
	ALARM PRIORITY	<1> ~ <4>				
	ALARM OUTPUT	<0FF>, <1>, <2>.				
	EXIT	YES				
	DETECT SWITCH	<0N>, <0FF>	<on>, <off></off></on>			
	DETECT MODE	<motion></motion>	<motion></motion>			
	BLOCK MODE	NONE; MOTION: <on>, <off></off></on>				
ALARM DETECT	FRAME SET	NONE; MOTION: <01> ~ <04>				
	FRAME DISABLE	NONE; MOTION: <				
	THRESHOLD	NONE; MOTION: <	:001> ~ <255>			
	EXIT	YES				
WDR FUNCTION	<0N>, <0FF>					
	PRIVACY SWITCH	<on>, <off></off></on>				
	TRANSPARENCY	<on>, <off></off></on>				
	COLOR	<black>, <whit< td=""><td>TE&gt;, <red>, <green>, <blue>, W&gt;,<magenta></magenta></blue></green></red></td><td></td></whit<></black>	TE>, <red>, <green>, <blue>, W&gt;,<magenta></magenta></blue></green></red>			
PRIVACY MASK	SET MASK	<01> ~ <20>	H CENTER: L/R V CENTER: D/U H SIZE <000> ~ <080>			
			V SIZE <000> ~ <060> EXIT + SAVE			
	CLEAR MASK	<01> ~ <20>				
	EXIT	YES				
	TIME DISPLAY	<on>, <off></off></on>				
	SET YEAR	<00> ~ <99>				
	SET MONTH	<01> ~ <12>				
TIME SETTING	SET DAY	<00> ~ <31>				
	SET HOUR	<00> ~ <23>				
	SET MINUTE	<00> ~ <59>				
	EXIT+SAVE	T				
	SWITCH	<on>, <off></off></on>				
	POINT HOUR	<01> ~ <32>				
	MINUTE	<00> ~ <23>				
	IVIIINOTE	<00> ~ <59> NONE	NO FUNCTION			
		V.A. MODE	V.A. MODE <on>, <off></off></on>			
		PRESET	PRESET POINT <001> ~ <256>			
SCHEDULE	MODE	SEQUENCE	SEQUENCE LINE <1> ~ <8>			
		AUTOPAN	AUTOPAN LINE <1> ~ <4>			
		CRUISE	CRUISE LINE <1> ~ <8>			
		IR FUNC.	IR FUNCTION			
	SCHEDIII E DESET		<auto>, <on>, <off></off></on></auto>			
	SCHEDULE RESET EXIT	YES YES				
EXIT OSD	YES	153				
LATI OOD	1 120					