FLIR®

On-Screen Display Guide DNZ30TL2R 30x IR PTZ Camera

FLIR

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1   Using the On-Screen Display (OSD) Menu

You can configure the camera's advanced settings on using the OSD menu. You can access the OSD menu through an NVR or the web interface.

1.1   Accessing the OSD Menu Using an NVR

You can use your a FLIR NVR's PTZ controls to access the OSD menu.

To access the OSD menu using an NVR:

1. In Live View, double-click the channel that has the PTZ camera connected to open in full-screen.
2. Right-click and click **Pan/Tilt/Zoom**. Enter the system user name and password if prompted. The PTZ menu opens.
3. Click the arrow in the PTZ control window to show advanced controls.

4. Click [icon]. The OSD menu appears over the camera image.

5. Use the on-screen controls to configure menu items:

   • **Up / down arrows:** Select menu items.
   • **Left / right arrows:** Change value for menu items.
   • **Cancel:** Exit the OSD menu.
   • **Enter:** Enter the menu item.

6. If applicable, select **NEXT** and click **Enter** to view additional items in the menu.

1.2   Accessing the OSD Menu Using the Web Interface

If your camera is connected to a network, you can use a computer on the same network to access the OSD menu.

To access the OSD menu using the web interface:

1. Open your web browser, enter the camera's IP address in the address bar, and press **Enter**.

> 📝 **NOTE**
>
> Internet Explorer, Chrome, and Firefox are supported.

2. Click the **Live View** tab.
3. Click the **Menu** tab in the right-hand panel.
4. Click **Open** to open the OSD menu.
5. Use the on-screen controls to configure menu items:
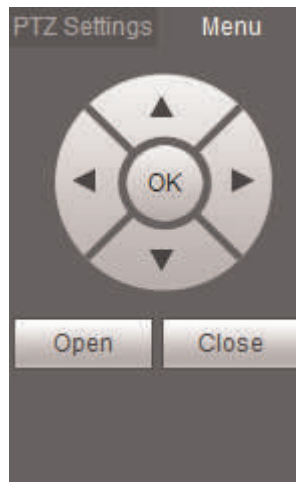
- **Up / down arrows:** Select menu items.
- **Left / right arrows:** Change value for menu items.
- **Close:** Exit the OSD menu.
- **OK:** Enter the menu item.

6. If applicable, select **NEXT** and click **OK** to view additional items in the menu.

> 📝 **NOTE**
>
> You can use the FLIR Cloud CMS from www.flirsecurity.com/pro to scan your network for connected IP cameras and find their IP addresses.

1.3   Saving OSD Menu Configurations

Some menu items require you to manually save your configuration. If a menu does not have a **Save** option, menu configurations are saved automatically.

To save OSD menu configurations:

1. Select the **Save** menu item.
2. Click **Enter** (NVR) or **OK** (web interface) in the on-screen controls.

2 Configuring OSD Menu Items

Use the OSD menu to correct imperfections in the camera image as well as configure automated PTZ functions like preset locations, patterns, and tours.

2.1 System Setting

Use the system setting menu to configure basic system information.

SYSTEM INFORMATION	The information in this section is for reference and cannot be configured through the OSD menu. • **ADDR:** Displays the camera's RS485 address. • **BR:** Displays the camera's baud rate. • **PARITY:** Displays the communication parity. • **VERSION:** Displays the camera firmware version.
ADDR INFORMATION	The address information menu lets you choose how the camera's RS485 address is determined. • **ADDR TYPE:** Select **HARD** to have the address determined by the DIP switches inside the camera housing, or **SOFT**(default) to select the address using the **ADDR-SOFT** setting. • **ADDR-HARD:** Displays the camera address determined by the DIP switches inside the camera housing. • **ADDR-SOFT:** Select a value from **0** to **255**.
SET NORTH	Set the current viewing angle as the north position.
LANGUAGE	Set the language for the OSD menu.
FACTORY DEFAULT	Reset the camera to factory defaults.
RESTART	Reboot the PTZ camera. OSD settings are not affected when the camera reboots.

2.2 Display Setting

Use the display setting menu to choose what information appears over the camera image.

PRESET TITLE	Select **ON** to show the preset title on the video display, or select **OFF** to hide. Default: **ON**
AZIMUTH DISP	Select **ON** to show the camera's coordinates on the video display, or select **OFF** to hide. Default: **OFF**
POSITION	Select **ON** to show the angle between the camera's current position and the benchmark position on the video display, or select **OFF** to hide. Default: **OFF**
ZOOM DISP	Select **ON** to display the camera's current zoom amount, or select **OFF** to hide. Default: **OFF**
INSIDE TEMP	Select **ON** to show the camera's internal temperature on the video display, or select **OFF** to hide. Default: **OFF**
PATTERN DISP	Select **ON** to display the currently enabled pattern. Default: **ON**

2.3   Camera Setting

Use the camera settings menu to adjust the camera image.

2.3.1   WB (White Balance) Setting

Correct color appearance in the camera image.

WB MODE	Select one of the following options based on the camera's environment: • **AUTO:** The camera adjusts white balance automatically. • **ATW:** The camera adjusts white balance automatically for various color temperatures. • **OUTDOOR:** Recommended for outdoor installations. • **INDOOR:** Recommended for most indoor installations. • **OUTDOOR AUTO:** Recommended for outdoor installations — white balance is adjusted automatically for outdoor lighting conditions. • **NA LAMP AUTO:** Recommended for environments with natural lighting — white balance is adjusted automatically for natural lighting conditions. • **NA LAMP:** Recommended for environments with natural lighting. • **MANUAL:** This mode allows you to configure the **R GAIN** (red) and **B GAIN** (blue) values to achieve proper white balance. Default: **AUTO**
R GAIN	If **WB MODE** is set to **MANUAL**, adjust the **R GAIN** (red) value to achieve proper white balance. Default: **50**
B GAIN	If **WB MODE** is set to **MANUAL**, adjust the **B GAIN** (blue) value to achieve proper white balance. Default: **50**

2.3.2   Exposure Setting

The exposure settings allow you to configure the concentration of light used to produce an image. You can configure a custom exposure or let the camera determine the exposure automatically.

AE AUTO	Select one of the following exposure modes: • **AUTO:** The settings for gain, iris, and shutter are determined automatically by the software. • **MANUAL:** Advanced users only — this mode requires you to configure the settings for gain, iris, and shutter to achieve proper exposure. • **IRIS PRIO:** Configure iris settings only. Gain and shutter settings are determined automatically by the software. • **SHUT PRIO:** Configure shutter settings only. Gain and iris settings are determined automatically by the software. Default: **AUTO**
GAIN SETTING	Set the gain value (**1 – 16**) to artificiality create a brighter (high gain) or darker (low gain) image. The **AE MODE** must be set to **MANUAL** to set the gain value. Default: **2**
SHUTTER	Set the shutter speed (**1/4 – 1/30,000**). Setting the shutter speed manually determines how long the camera shutter remains open when capturing an image. It is recommended to keep shutter speed set to **1/60** to ensure smooth video. The **AE MODE** must be set to **MANUAL** or **SHUT PRIO** to set the shutter speed. Default: **1/50**
IRIS SETTING	Adjust the iris (**1 – 18**). to determine how much light comes through the lens. The **AE MODE** must be set to **MANUAL** or **IRIS PRIO** to adjust the iris setting. Default: **11**

EXPOSURE COMP	Adjust the exposure compensation, from **1** (darkest) to **15** (brightest), to fine-tune the camera's exposure. The **AE MODE** must be set to **AUTO** to adjust the exposure compensation.
	Default: **8**
SLOW AE	Adjust the slow exposure (**1 – 16**) to improve image quality in low-light conditions.
	Default: **1**
BLC	Control Backlight Compensation. Select **ON** to tone down highlighted areas of the image to create clearer, more detailed renderings of darker objects in the foreground.
	Default: **OFF**
SLOW SHUTTER	Control Sense-up. Select **ON** to allow extra light into the camera thereby providing brighter images in low-light conditions.
	Default: **ON**
SLOW SHUTTER LIMIT	Set the lower bound limit (**1/1 – 1/25**) when **SLOW SHUTTER** is turned **ON**.
	Default: **1/25**
AGC GAIN LIMIT	Lower the high limit for the camera's automatic gain control (**1 – 3**) to reduce noise in the camera image. A gain limit of **3** is recommended.
	Default: **3**
NR	Set the 2D noise reduction level (**1 – 5**) to limit the appearance of noise (graininess in the camera image) around stationary objects.
	Default: **3**
CAMERA 3D NR	Set the 3D noise reduction level (**1 – 5**) to limit the appearance of noise (graininess in the camera image) around stationary and moving objects.
	Default: **3**
HIGH LIGHT REDUCE	Select **2** to greatly reduced the brightness of highlighted areas to ensure a clear image, or **1** to slightly reduce the brightness of highlighted areas.
	Default: **OFF**
AE RECOVERY	Changing the camera's iris setting through the NVR menu takes priority over the exposure settings in the OSD menu. Set a Auto Exposure Recovery period between **1M** and **30M** to determine when the camera's iris is reset to the setting specified in the OSD menu. Select **OFF** to allow DVR settings to override the settings in the OSD menu.
	Default: **15M**
WDR SETTING	Enable Digital Wide Dynamic Range. Select **ON** to fix harsh contrast between bright and dark sections of the camera image.
	Default: **OFF**

2.3.3 Day/Light Setting

Choose how the camera switches over from day mode (color) to night mode (black & white).

DAY/NIGHT	Select one of the following options:
	• **AUTO:** The camera switches between day and night mode automatically with changing light conditions (recommended).
	• **TIME:** The camera switches between day and night mode based on times set in the **DAY TIME** and **NIGHT TIME** settings.
	• **LIGHT:** Day / night switch-over is determined by a light filter. This is recommended if the camera is in a location with fluctuating light conditions (for example, indoors with lights turning on and off throughout the day).
	• **NIGHT:** The camera remains in black & white. This settings is not recommended unless the camera is in a constantly dark environment.
	• **DAY:** The camera remains in full color. This settings is not recommended unless the camera is in an area with constant lighting.
	Default: **LIGHT**
DAY TIME	If **DAY/NIGHT** is set to **TIME**, then the camera switches to day mode at the specified time.
	Default: **07H 00M** (24 hour format)
NIGHT TIME	If **DAY/NIGHT** is set to **TIME**, then the camera switches to night mode at the specified time.
	Default: **19H 00M** (24 hour format)
THRESHOLD	Set the conditions for day / night switch-over. Select a number between **1** (switch-over in brighter conditions) and **8** (switch-over in darker conditions). **DAY/NIGHT** must be set to **AUTO** to configure this setting.
	Default: **5**

2.3.4 Focus Setting

Choose how the camera focuses on objects in the image.

FOCUS MODE	Select one of the following options:
	• **AUTO:** The camera automatically adjusts the focus after it performs a Pan-Tilt-Zoom function (recommended).
	• **MANUAL:** The camera must be manually put into focus using the NVR menu.
	• **SEMIAUTO:** The camera automatically adjusts the focus after Zoom functions only.
	Default: **AUTO**
FOCUS LIMIT	Set the focus limit between **10CM** and **5M** to only perform auto-focus on objects further out than the focus limit (for example, a focus limit of **5M** means that the camera will focus on objects further than 5 metres away), or select **AUTO** to auto-focus on all objects regardless of their distance from the camera.
	Default: **10CM**
AF SENSITIVITY	Set the auto-focus sensitivity. Select **LOW** (least amount of automatic focusing), **MID**, or **HIGH** (greatest amount of automatic focusing).
	Default: **MID**
IR CORRECTION	Select **ON** or **AUTO** to enable IR correction, or **OFF** to disable. IR correction is especially effective in night-time conditions.
	Default: **AUTO**

2.3.5 Image Adjust

Perform fine-tuning on the camera image.

HUE	Select a hue value for the camera image (**1–100**). Default: **50**
SATURATION	Select a saturation value for the camera image (**1–100**). Default: **50**
CHROMA SUPPRESS	Select a chroma suppression value for the camera image (**1–4**). Default: **2**
GAMMA	Select a gamma value for the camera image (**1–16**). Default: **1**

2.3.6 Defog Setting

Set the defog settings for the camera. Enabling defog mode reduces the appearance of fog, mist, or dust in the camera image.

DEFOG MODE	Select **AUTO** to reduce the appearance of fog automatically, **MANUAL** to configure manually, or **OFF** to disable. Default: **OFF**
INTENSITY	If **DEFOG MODE** is set to **MANUAL**, set the level of fog compensation from **1** (lowest) to **3** (highest). Default: **2**
LIGHT INTENSITY MODE	Select **AUTO** or **MANUAL** to determine how much light enters the camera. Default: **AUTO**
LIGHT INTENSITY LEVEL	If **LIGHT INTENSITY MODE** is set to **MANUAL**, set the **LIGHT INTENSITY LEVEL** from **1** (lowest) to **16** (highest). It is recommended to use the default setting. Default: **13**

2.3.7 Zoom Speed

Set the speed for the camera's zoom function from **1** (slowest) to **8** (fastest).

Default: **8**

2.3.8 Aperture

The aperture determines the sharpness of the camera image. Select a value from **1** (least sharp) to **16** (sharpest).

Default: **9**

2.3.9 Aperture Restrain

Aperture restrain is used to fine-tune the sharpness to eliminate noise in the image. Select a value from **1** (least sharp) to **16** (sharpest).

Default: **5**

2.3.10 Digital Zoom

The camera uses 30X optical zoom to capture a subsection of the camera image in great detail. If you want to zoom in even closer, select **ON** to enable digital zoom.

Default: **OFF**

> 📝   **NOTE**
>
> Digital zoom will reduce the resolution of the image.

2.3.11   Picture Flip

Select **ON** to rotate the camera image 180°.

Default: **OFF**

2.3.12   Freeze Func

Select **ON** to enable Freeze Function. The Freeze Function will freeze the image while the camera is in motion. For example, if the camera is at preset 1 and moves to preset 2, the image will freeze at preset 1 while the camera is moving and will update once the camera stops at preset 2.

2.3.13   Stable

Select **ON** to enable image stabilization. Image stabilization reduces the effect of vibration on the image.

2.3.14   Camera Factory Default

Reset all menu items in the **CAMERA SETTING** menu back to their default values.

2.3.15   Camera Restart

Restarts the camera module. This means that the camera's PTZ module will restart without the whole camera powering off. Restarting the camera module does not affect OSD menu settings.

2.4   Function Setting

Use the function settings menu to configure preset locations, patterns and tours for the camera, as well as set menu options such as idle time and password.

2.4.1   Preset

Presets will save a camera position for quick retrieval. You can set up to 300 preset locations through the OSD menu. Before entering the OSD menu, adjust the angle of the PTZ camera to the location where you would like to add a preset.

PRESET NO	Select a number for the preset **1 – 300**).
TITLE	Select a preset title (**PRESET1 – PRESET300**).
SETTING	Set the camera's current position for the selected preset.
CALL	The camera automatically moves to the position of the currently selected preset.

2.4.2   Auto Pan

Set the camera to pan continuously at a set speed.

PAN SPEED	Set the pan speed between **1** (slowest) and **8** (fastest). Default: **5**
RUN	Starts camera panning.
STOP	Stops camera panning.

2.4.3   Auto Scan

An auto scan automatically cycles between a left and right point. You can set up to 5 auto-scan cycles.

AUTO SCAN NO	Select a number for the auto scan (**1 – 5**).
SET LEFT LIMIT	Sets the current viewing angle as the left limit for the current auto scan.
SET RIGHT LIMIT	Sets the current viewing angle as the right limit for the current auto scan.
SCAN SPEED	Select a scan speed (**1 – 8**). Default: **5**
CALL	Begins the selected auto scan.
STOP	Stops auto scanning

2.4.4   Tour

Tours will cycle through a set of presets. You can set up to 8 tours.

TOUR NO	Select a number for the tour (**1 – 8**).
SETTING	Click **Enter** to configure a custom tour using 2 or more of your preset locations. • Select **01** under the **NO** column and click **Enter** to configure the first pre-set location in the tour. • Use the left / right arrows to select **PRESET**. Use the up / down arrows to choose the number of the first preset location in the tour. • Use the left / right arrows to select **DWELL**. Use the up / down arrows to set the length of time the camera will spend at the first preset location. • Use the left / right arrows to select **SPEED**. Use the up / down arrows to set how fast the camera moves into the first preset location (**001**=slowest; **016**=fastest). • When you are finished configuring the first point in the tour, click **Enter**. Repeat for as many points as you want to set in the tour. A single tour can use up to 32 preset locations.
DELETE	Deletes the selected tour.
CALL	Begins the selected tour.
STOP	Stops the tour.

2.4.5   Pattern

Patterns automatically cycle the camera between two positions. You can set up to 5 patterns.

PATTERN NO	Select a number for the pattern (**1 – 5**)
PROGRAM START	Begins tracking the camera's movement for the creation of a pattern.
PROGRAM STOP	Stops tracking camera movement and ends the current pattern.
CALL	Begins the selected pattern.
STOP	Stops the pattern.

2.4.6   Idle Motion

Choose an action for the camera to perform when left idle for a period of time.

IDLE FUNCTION	Select **ON** to enable idle motion. Default: **OFF**
IDLE TIME	Set how long before the camera begins performing the idle motion (**1MIN – 720MIN**). Default: **10MIN**

IDLE ACTION	Select the type of idle action for the camera to perform: • **PRESET** • **SCAN** • **TOUR** • **PATTERN** • **NONE**
PARAMETER	Select a value depending on the **IDLE ACTION** setting: • **PRESET: 1 – 300** • **SCAN: 1 – 5** • **TOUR: 1 – 8** • **PATTERN: 1–5** • **NONE:** N/A For example, setting an **IDLE TIME** of **5MIN**, an **IDLE ACTION** of **TOUR**, and a **PARAMETER** of **1** will make the camera perform TOUR 1 after the camera is left idle for 5 minutes.

2.4.7   Auto Run

Choose a task for the camera to automatically run during specified times.

TASK NO	Select a number for the task (**1 – 5**).
TASK SETTING	Configure the task and when it will run: • **WEEK:** Select **ALL WEEK** (default) to make the task run everyday, or se-lect a specific day (**MON.** to **FRI.**) to make the task run once a week. • **START TIME:** Click **Enter** then click the arrows to set when the task starts (24 hour time format). • **END TIME:** Click **Enter** then click the arrows to set when the task ends (24 hour time format). • **RUN ACTION:** Select the type of function that runs in the task (**SCAN**, **PRESET**, **PATTERN**, or **TOUR**). • **PARAMETER** Select the number of the function. For example, setting a **WEEK** of **FRI.**, an **RUN ACTION** of **TOUR**, and a **PA-RAMETER** of **1** will make the camera perform TOUR 1 every Friday. Select and click **SAVE** to save the configuration.
TASK INFORMATION	Displays information for the active task.
DELETE TASK	Deletes the selected task.

2.4.8   Privacy Masking

PRIVACY NO	Select a number for the privacy mask (**1 – 24**).
ACTIVATE	Select **ON** to enable privacy masking. Default: **OFF**
SETTING	Configure the privacy mask: • Select **RESIZE** and click **Enter**. • Select of one the on-screen arrows and click **Enter** to resize the privacy mask. Use the right and left arrows to adjust the width of the privacy mask. Use the up and down arrows to adjust the height. • Select **SAVE** and click **Enter** to save the privacy mask.

2.4.9   PTZ Speed

Set the speed of the camera's Pan-Tilt-Zoom functions from **1** (slowest) and **3** (fastest).

Default: **3**

2.4.10   Set Zero

Set the camera's current position as the horizontal benchmark position.

2.4.11   Power Up

Choose an action for the PTZ camera to perform when it first powers up.

POWER UP	Select the camera's function upon startup:
	• **AUTO:** Camera performs default diagnostics check on startup.
	• **SCAN:** Camera performs a scan cycle on startup. Under **PARAMETER**, use the left / right arrows to set the scan number (**1 – 5**).
	• **PRESET:** Camera moves to a preset location on startup. Under **PARAMETER**, use the left / right arrows to set the preset number (**1 – 300**).
	• **PATTERN:** Camera performs a pattern on startup. Under **PARAMETER**, use the left / right arrows to set the pattern number (**1 – 5**).
	• **TOUR:** Camera performs a tour on startup. Under **PARAMETER**, use the left / right arrows to set the tour number (**1 – 8**).
	• **NONE:** Camera performs no action on startup
	Default: **AUTO**
PARAMETER	Select a value depending on the **POWER UP** setting:
	• **AUTO:** N/A
	• **PRESET: 1 – 300**
	• **SCAN: 1–5**
	• **TOUR: 1–8**
	• **PATTERN: 1–5**
	• **NONE:** N/A

2.4.12   Menu Password

You can set a password that will be required to access the OSD menu.

PASSWORD	Select **ON** to require a password to access the OSD menu.
	Default: **OFF**
SETTING	Use the on-screen arrow keys to set a password for the OSD menu. The password can be up to 8 characters long. Select **ENTER** and click **Enter** to save the password.

📑 NOTE
If you forget the password, press and hold the reset button on the camera for 10 seconds.

2.4.13   Menu Idle

Set the length of time before the OSD menu closes automatically (**1MIN – 5MIN**) or select **OFF** to prevent the menu from closing automatically.

Default: **1MIN**

2.4.14   PTZ Auto Stop

Enable PTZ auto stop to prevent the camera from continually spinning. Set a time limit for continuous PTZ functions(**5S – 30S**) or select **OFF** to impose no limit.

Default: **15S**

2.4.15   *Warm Machine*

Configure the camera's heater to compensate for low external temperature.

WARM MACHINE	Select **AUTO** to automatically turn on the camera's heater based on **OPEN TEMPERATURE** and **CLOSE TEMPERATURE** values. Select **ON** to turn on the camera's heater manually. Select **OFF** to turn off the camera's heater. Default: **AUTO**
OPEN TEMPERATURE	If **WARM MACHINE** is set to **AUTO**, the camera's heater turns on when the temperature drops below the selected temperature (°C). Default: **3**
CLOSE TEMPERATURE	If **WARM MACHINE** is set to **AUTO**, the camera's heater turns off when the temperature goes above the selected temperature (°C). Default: **12**

2.4.16   *PTZ Correction*

Not supported.

2.5   IR Light Setting

Use the IR light settings menu to configure the camera's IR LEDs for optimal night vision performance.

IR SENSITIVITY	Set a value for the IR LED sensitivity from **1** (lowest) to **6** (highest). Default: **4**
IRLIGHT CTRL	Select **ZOOM PRIO** to let zoom functions control the amount of IR light emitted, or **MANUAL** to set a custom control. Default: **ZOOM PRIO**
NEAR LIGHT	If **IRLIGHT CTRL** is set to **MANUAL**, set a value (**5 – 55**) to determine the brightness of near light, or select **OFF** to disable. Default: **45**
FAR LIGHT	If **IRLIGHT CTRL** is set to **MANUAL**, set a value (**5 – 55**) to determine the brightness of far light, or select **OFF** to disable. Default: **45**
IRLIGHT COMP	Select a total IR compensation value from **1** (lowest) to **5** (highest). **IRLIGHT CTRL** must be set to **ZOOM PRIO**. Default: **3**

3 OSD Menu Tree

The following tables show the structure of each OSD menu.

3.1 System Setting

SYSTEM INFORMATION	ADDR	
	BR	
	PARITY	
	VERSION	
ADDR INFORMATION	ADDR TYPE	• HARD • SOFT
	ADDR-HARD	1 – 255
	ADDR-SOFT	0 – 255
SET NORTH		
LANGUAGE		
FACTORY DEFAULT		
RESTART		

3.2 Display Setting

PRESET TITLE	ON / OFF
AZIMUTH DISP	ON / OFF
POSITION	ON / OFF
ZOOM DIS	ON / OFF
INSIDE TEMP	ON / OFF
PATTERN DISP	ON / OFF

3.3   Camera Setting

WB SETTING	WB MODE	• AUTO • ATW • OUTDOOR • INDOOR • OUTDOOR AUTO • NA LAMP AUTO • NA LAMP • MANUAL	
	R GAIN	0 – 100	
	B GAIN	0 – 100	
EXPOSURE SETTING	AE MODE	• AUTO • MANUAL • IRIS PRIO • SHUT PRIO	
	GAIN SETTING	1 – 16	
	SHUTTER	1/4 – 1/30,000	
	IRIS SETTING	1 – 18	
	EXPOSURE COMP	1 – 15	
	BLC	ON / OFF	
	NEXT PAGE	SLOW SHUTTER	ON / OFF
		SLOW SHUTTER LIMIT	1/1 – 1/25
		AGC GAIN LIMIT	1 – 3
		NR	1 – 5 or OFF
		CAMERA 3D NR	1 – 5 or OFF
		HIGH LIGHT REDUCE	1 – 2 or OFF
		AE RECOVERY	• OFF • 1M • 2M • 5M • 15M • 30M
		WDR SETTING	ON / OFF
DAY/NIGHT SETTING	DAY/NIGHT	• AUTO • TIME • LIGHT • NIGHT • DAY	
	DAY TIME	00H 00M (24 time format)	
	NIGHT TIME	00H 00M (24 time format)	
	THRESHOLD	1 – 8	

FOCUS SETTING	FOCUS MODE	• AUTO • MANUAL • SEMIAUTO
	FOCUS LIMIT	• 10CM • 1M • 2M • 3M • 5M • AUTO
	AF SENSITIVITY	• LOW • MID • HIGH
	IR CORRECTION	• ON • OFF • AUTO
IMAGE ADJUST	HUE	1 – 100
	SATURATION	1 – 100
	CHROMA SUPPRESS	1 – 4
	GAMMA	1 – 16
ZOOM SPEED	1 – 8	
NEXT PAGE	APERTURE	1 – 16
	APERTURE RESTRAIN	1 – 16
	DIGITAL ZOOM	ON / OFF
	PICTURE FLIP	ON / OFF
	FREEZE FUNC	Not supported.
	STABLE	Not supported.
	CAMERA FACTORY DEFAULT	
	CAMERA RESTART	

3.4 Function Setting

PRESET	PRESET NO	1–300
	TITLE	PRESET1–PRESET300
	SETTING	
	CALL	
AUTO PAN	PAN SPEED	1 – 8
	RUN	
	STOP	
AUTO SCAN	AUTO SCAN NO	1 – 5
	SET LEFT LIMIT	
	SET RIGHT LIMIT	
	SCAN SPEED	1 – 8
	CALL	
	STOP	

TOUR	TOUR NO	1 – 8
	SETTING	
	DELETE	
	CALL	
	STOP	
PATTERN	PATTERN NO	1 – 5
	PROGRAM START	
	PROGRAM STOP	
	CALL	
	STOP	
IDLE MOTION	IDLE FUNCTION	ON / OFF
	IDLE TIME	1MIN – 720MIN
	IDLE ACTION	• **PRESET** • **SCAN** • **TOUR** • **PATTERN** • **NONE**
	PARAMETER	Values depend on **IDLE ACTION** setting: • **PRESET: 1 – 300** • **SCAN: 1 – 5** • **TOUR: 1 – 8** • **PATTERN: 1 – 5** • **NONE:** N/A
AUTO RUN	TASK NO	1 – 5
	TASK SETTING	• **WEEK** • **START TIME** • **END TIME** • **RUN ACTION** • **PARAMETER**
	TASK INFORMATION	
	DELETE TASK	

NEXT PAGE	PRIVACY MASKING	PRIVACY NO	1 – 24
		ACTIVATE	ON / OFF
		SETTING	RESIZE
			SAVE
	PTZ SPEED	1–3	
	SET ZERO		
	POWER UP	POWER UP	• **AUTO** • **SCAN** • **PRESET** • **PATTERN** • **TOUR** • **NONE**
		PARAMETER	Values depend on **POWER UP** setting: • **AUTO:** N/A • **PRESET: 1 – 300** • **SCAN: 1 – 5** • **TOUR: 1 – 8** • **PATTERN: 1 – 5** • **NONE:** N/A
	MENU PASSWORD	PASSWORD	ON / OFF
		SETTING	
	MENU IDLE	• **OFF** • **1MIN** • **2MIN** • **3MIN** • **4MIN** • **5MIN**	
	PTZ AUTO STOP	• **OFF** • **5S** • **10S** • **15S** • **20S** • **25S** • **30S**	
WARM MACHINE	WARM MACHINE	AUTO / ON / OFF	
	OPEN TEMPERATURE	1 – 9	
	CLOSE TEMPERATURE	12 – 18	
PTZ CORRECTION	Not supported.		

3.5   IR Light Setting

IR SENSITIVITY	1 – 6
IRLIGHT CTRL	• **ZOOM PRIO** • **MANUAL**
NEAR LIGHT	5 – 55
FAR LIGHT	5– 55
IRLIGHT COMP	1 – 5

FLIR