



TruVision HD-TVI Series 4 PTZ Dome Camera Configuration Manual

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Introduction

This is the configuration manual for following camera models:

HD-TVI 1080P Non-IR Dome Cameras

- TVP-2401 (30X, Pendant /Wall mount, PAL)
- TVP-2402 (30X, Surface/Flush mount, PAL)
- TVP-4401 (30X, Pendant /Wall mount, NTSC)
- TVP-4402 (30X, Surface/Flush mount, NTSC)

HD-TVI 1080P IR Dome Cameras

- TVP-2403 (30X, Pendant/Wall mount, IR, PAL)
- TVP-4403 (30X, Pendant/Wall mount, IR, NTSC)

Programming

Once the camera hardware has been installed, the camera can be configured using a HD-TVI DVR menu.

You can also configure the camera settings via a DVR. Select the PTZ protocol **TruVision Coax** and click the menu button to call up the menu.

Call up the camera OSD menu

To set up the camera:

1. Set up the camera hardware as described in the installation manual.
2. Under **Camera Settings** of the DVR, access the PTZ menu and set the protocol for the TruVision HD-TVI camera to **TruVision-Coax**.
3. In live view of the desired camera, click the PTZ Control icon on the live view toolbar to access the PTZ control panel.
4. To call up the camera setup menu:

From the camera, press the **Menu** button (if present).

— or —

From the local live view of the DVR, select **Menu** from the PTZ control panel or call **Preset 95**.

— or —

From the remote live view of the DVR, call **Preset 95**.

The camera setup menu appears (see “Menu tree” on page 4 for the menu structure).

5. Select the menu options:

From the DVR: To select an OSD item, click the directional buttons up/down. To adjust the value of a selected item, click the directional buttons left/right.

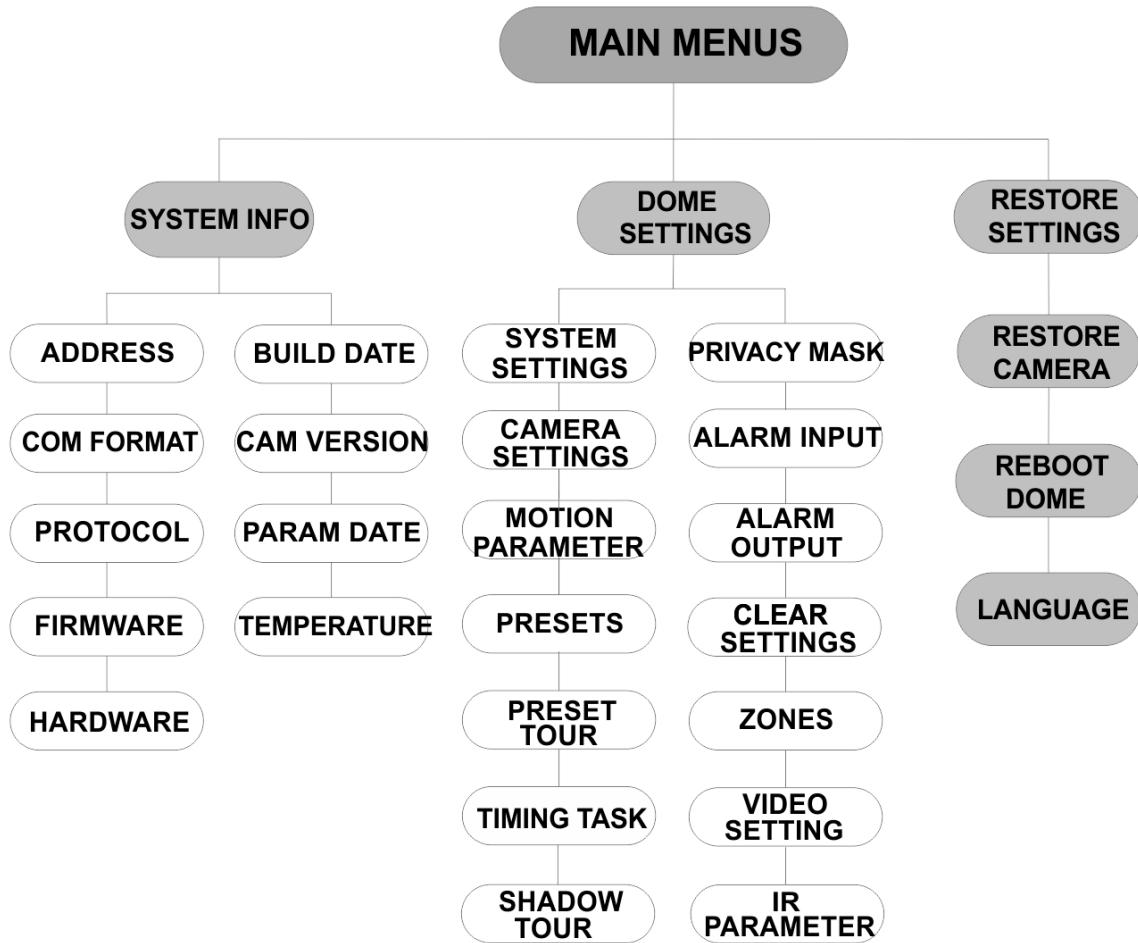
From the camera (if it has a Menu button): To select an OSD item, push the Menu button up/down. To adjust the value of a selected item, push the Menu button left/right.

6. Click **Iris+** to enter the submenu or to confirm the selected item.
7. When the setup is complete, select **Exit** and click **Iris+** to exit the camera OSD.

Note: You cannot exit the camera setup menu using the Menu button on the camera.

Menu tree

The menu tree of the TruVision 1080P HD-TVI PTZ domes is shown below.



Configuration

This section describes how to set up the menu settings.

System Info

Display the current system information of the PTZ dome, including model, address, protocol, etc.

Note:

- Information on this menu cannot be edited.
- The temperature refers to the internal temperature of the PTZ dome.

Dome Settings

System Settings

You can check and edit the system information of the software address, baud rate, system time, etc. on the system information settings menu.

Note: Click the left and right directional buttons in the PTZ control panel via the web browser of the encoder to enter the next page and return to the previous page of the submenu if more than one page is available.

Note: As TruVision recorders do not support an address greater than 255, a soft address greater than 255 will not support any protocol even though the camera supports 8190 address for UTC-RS485 (Interlogix-Protocol) and 512 address for DIGIPLEX and ASCII. However, you can have an address greater than 255 address for legacy products that supports UTC-RS-485 (Interlogix-Protocol), DIGIPLEX or ASCII.

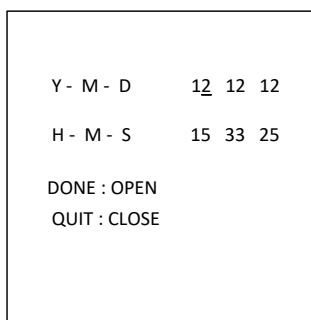
SYSTEM SETTINGS	
SOFT ADDRESS	1
SET SOFT ADDRESS	OFF
SOFT BAUDRATE	2400
SET SOFT BAUD	OFF
BROADCAST ADDR	ON
PELCO	ON
SYSTEM TIME	
BACK	EXIT

SYSTEM SETTINGS	
ANGLE ZERO	
<DISPLAY SETTINGS>	
HEAT CONTROL	TEMP
FAN CONTROL	TEMP
EIS SETTINGS	OFF
PRESET FOCUS	OFF
PROTOCOL ENABLE	OFF
BACK	EXIT

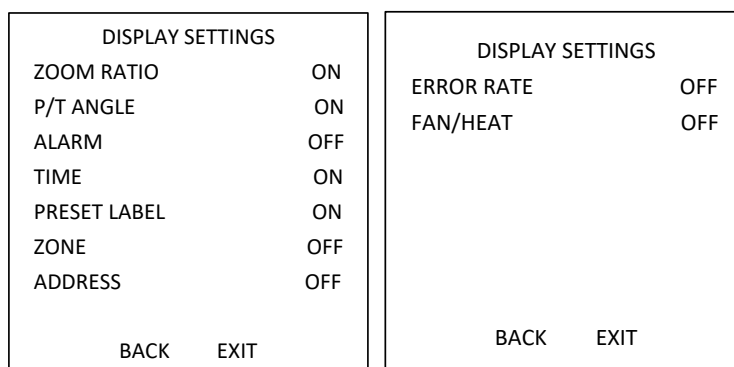
SYSTEM SETTINGS	
PROTOCOL	UTC RS-485
485 CHECK	AUTO
MEMORY TIME	180s
NEAR FOCUS LEVEL	1
BACK	EXIT

SOFT ADDRESS	This is the address to connect and control the HD-TVI PTZ dome. It can be used as an alternative to the hard address if, for example, the address must be above the available hard address.
SET SOFT ADDRESS	ON: The soft address is the valid address for the HD-TVI PTZ dome. The selectable soft address range is from 1 to 255. OFF: This refers to the hard address. Use the DIP switch to set the valid address for the HD-TVI PTZ dome.

SOFT BAUDRATE	This is the valid baud rate for the HD-TVI PTZ dome with the soft address.
SET SOFT BAUD	ON: The soft baud rate is the valid baud rate for the HD-TVI PTZ dome. Select 2400, 4800, 9600 or 19200. OFF: Use the DIP switch to set the baud rate.
BROADCAST ADDR	When set to ON , the control device with address 0 can control all domes connected to it.
PELCO	This is used for Pelco-P and Pelco-D protocols. If the video freezes, set PELCO to ON to improve the video quality.
SYSTEM TIME	<ol style="list-style-type: none"> 1. Move the cursor to SYS TIME using the directional buttons and click IRIS+ to enter. 2. Click the left/right directional buttons to position the cursor on the specific item (year/month/day or hour/minute/second) of which you want to change the value. 3. Click the up/down directional buttons to increase/decrease the value. 4. Click IRIS+ button to confirm the settings and exit.



ANGLE ZERO	Define the angle zero of the PTZ dome. Angle zero is when the PT position of the dome is 0,0. Use this function to set the angle zero.
DISPLAY SETTINGS	Enable or disable the on-screen display of PTZ movements, alarms, time, presets, zone, address, error rate, and fan/heat show, etc.



ZOOM RATIO **ON:** Enable the on screen display of zoom ratio.
OFF: Disable the on screen display of zoom ratio.
2: The ZOOM RATIO will display on screen for 2 seconds.

5: The ZOOM RATIO will display on screen for 5 seconds.

10: The ZOOM RATIO will display on screen for 10 seconds.

P/T ANGLE	<p>ON: Enable the on screen display of P/T angle.</p> <p>OFF: Disable the on screen display of P/T angle.</p> <p>2: The P/T angle will display on screen for 2 seconds.</p> <p>5: The P/T angle will display on screen for 5 seconds.</p> <p>10: The P/T angle will display on screen for 10 seconds.</p>
ALARM	<p>ON: Enable the on screen display of alarm message.</p> <p>OFF: Disable the on screen display of alarm message.</p>
TIME	<p>ON: Enable the on screen display of time.</p> <p>OFF: Disable the on screen display of time.</p>
PRESET LABEL	<p>ON: Enable the on screen display of preset label.</p> <p>OFF: Disable the on screen display of preset label.</p> <p>2: The PRESET LABEL will display on screen for 2 seconds.</p> <p>5: The PRESET LABEL will display on screen for 5 seconds.</p> <p>10: The PRESET LABEL will display on screen for 10 seconds.</p>
ZONE	<p>ON: Enable the on screen display of zone.</p> <p>OFF: Disable the on screen display of zone.</p>
ADDRESS	<p>ON: Enable the on screen display of camera address.</p> <p>OFF: Disable the on screen display of camera address.</p>
ERROR RATE	<p>ON: Enable the on screen display of error rate.</p> <p>OFF: Disable the on screen display of error rate.</p>
FAN/HEAT	<p>ON: Enable the on screen display of fan/heater message.</p> <p>OFF: Disable the on screen display of fan/heater message.</p>
HEAT CONTROL	<p>TEMP: The heater is controlled by the temperature.</p> <p>ON: Enable the heater.</p> <p>OFF: Disable the heater.</p> <p>N/A: Only for non-IR PTZ.</p>
FAN CONTROL	<p>TEMP: The fan is controlled by the temperature.</p> <p>ON: Enable the fan.</p>

	OFF: Disable the fan.
EIS SETTINGS	ON: Enable the Electronic Image Stabilization. OFF: Disable the Electronic Image Stabilization.
PRESET FOCUS	ON: Enable the preset direct focus function to also saves the focus (F) value. OFF: Disable the preset direct focus function.
PROTOCOL ENABLE	ON: The user-defined protocol is enabled. OFF: The user-defined protocol is disabled.
PROTOCOL	Define the protocol: UTC RS-485, PELCO-P, PELCO-D, DIGIPLEX, or ASCII.
485 CHECK	Set to ON or AUTO for automatic RS-485 configuration diagnosis. If the configuration is incorrect, an alert will be received. If you set the value as AUTO , it will automatically stop the diagnosis when no errors exist.
MEMORY TIME	The dome resumes its previous PTZ status when it restarts after a power-off and had stopped at the position longer than the predefined time. Set the memory time to 10s, 30s, 60s, 180s, or 300s.
NEAR FOCUS LEVEL	This is a debug interface. It ranges from 0 to 2. Select one level to have the optimal focus speed and accuracy depending on the actual scenario.

Camera Settings

You can set the camera parameters including focus, shutter speed, iris, etc.

CAMERA	
FOCUS	AF
ZOOM LIMIT	22
ZOOM SPEED	HIGH
SLOW SHUTTER	ON
DAY/NIGHT	AUTO
D/N LEVEL	1
SHARPNESS	8
BACK	EXIT

CAMERA	
BLC/WDR	OFF
EXP MODE	AUTO
IRIS	10
SHUTTER	50
GAIN	N/A
EXPOSURE COMP	7
BACK	EXIT

CAMERA	
WB MODE	AUTO
RED	210
BLUE	150
IMAGE FLIP	OFF
FOCUS LIMIT	1M
2D DNR	1
3D DNR	2
BACK	EXIT

CAMERA	
MIN ZOOM LIMIT	2.0
CHROMA SUPPRESS	1
SATURATION	1
CONTRAST	OFF
SCENE MODE	INDOOR
HLC	ON
SHARPNESS COMP	15
BACK	EXIT

CAMERA	
GAIN LIMIT	15
DEFOG	OFF
INIT LENS	OFF
BACK	EXIT

FOCUS	Set the focus mode. AF (Autofocus): The lens remains in focus during PTZ movements.
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	<p>MF (Manual Focus): Manually adjust the focus using the Focus+ and Focus- buttons.</p> <p>HAF (Half-autofocus): The PTZ dome only focuses automatically once after panning, tilting and zooming.</p> <p>Note: The focus mode needs to be changed to MF before controlling Focus in the PTZ panel.</p>
ZOOM LIMIT	<p>Set the user-defined limitation of the zoom amount. Zoom level= Optical zoom× Digital zoom.</p> <p>If you set the zoom limit to its minimum value (22), digital zoom is disabled and optical zoom is at maximum value. If you set a lower zoom limit, digital zoom is enabled.</p>
ZOOM SPEED	<p>Define the speed at which the lens changes from wide to optical zoom.</p>
SLOW SHUTTER	<p>This extends the exposure time under low light conditions in order to obtain a clearer image. It can be set from 0 to 5 and the higher the value is, the longer the exposure time.</p>
DAY/NIGHT	<p>Set the value to AUTO, DAY or NIGHT.</p> <p>AUTO: The PTZ dome automatically switches from Black and White mode (NIGHT) and Color mode (DAY) depending on the light conditions. This is default mode.</p> <p>NIGHT (B/W): Switch the IR cut filter to Black and White mode to increase the lens sensitivity in low light conditions</p> <p>DAY (Color): Switch to Day mode in normal light conditions.</p> <p>Note:</p> <ul style="list-style-type: none"> • Set the DAY/NIGHT values in this menu. Call up preset 39 to set the IR cut filter mode to DAY mode and call up preset 40 to set it to NIGHT mode. • The DAY/NIGHT values cannot be configured unless the IR function is disabled.
D/N LEVEL	<p>This is the light level for auto D/N mode switch.</p> <p>The IR cut filter switches between DAY and NIGHT mode when the light conditions reach this user-defined D/N sensitivity level.</p>
SHARPNESS	<p>This function increases the image gain and sharpens the edges in the image to enhance image details.</p> <p>Set the sharpness level between 0 and 15.</p>
BLC/WDR	<p>Set the value as ON or OFF to enable or disable the functions.</p>
EXP MODE	<p>AUTO: Auto iris, auto shutter and auto gain. The PTZ dome automatically adjusts the values depending on the light conditions. This is default mode.</p> <p>IRIS: User-defined iris value, auto shutter and auto gain. It is the iris-priority mode. Define the iris value in the IRIS, SHUTTER and GAIN menus (see below).</p> <p>SHUTTER: User-defined shutter speed, auto iris and auto gain. It is the shutter-priority mode. Define the shutter speed in the IRIS, SHUTTER and GAIN menus (see below).</p> <p>MANUAL: User-defined iris, gain and shutter. in the IRIS, SHUTTER and GAIN menus (see below).</p>

IRIS	<p>It measures the amount of light entering to the lens. You can set the iris value from 0 to 17 in response to the changing light conditions.</p> <p>The EXP MODE needs to be changed to MANUAL before controlling the Iris in the PTZ panel.</p> <p>Note: Iris is fully closed at 0 and fully open at 17.</p>
SHUTTER	<p>The speed of the electronic shutter controls the amount of light entering to the lens in a unit of time (a second). You can manually configure the shutter speed for the PTZ dome. You can also enable a slow shutter function for low light conditions.</p> <p>The higher you set the SHUTTER value (a faster shutter speed), the lower the amount of light entering per second, and the darker the image. Set the value to 1, 2, 4, 8, 15, 30, 50, 125, 180, 250, 500, 1000, 2000, 4000 or 10000.</p> <p>Note: The value of X indicates that the shutter speed is 1/X second.</p>
GAIN	<p>Gain value: The gain value is the amplification degree of the original image signal. Set the value between 0 and 15.</p> <p>Gain limit: The higher gain value set, the more noise will appear in the image. You can set the maximum gain value between 0 and 15 to limit the gain range and control the noise in the image.</p> <p>Note: Change DAY/NIGHT mode to DAY or NIGHT mode, and set the EXP MODE as MANUAL before adjusting the gain value.</p>
EXPOSURE COMP	<p>Adjust this value to increase the brightness of the image.</p> <p>Set the EXPOSURE COMP value between 0 and 14. Default value is 7.</p>
WB MODE	<p>Set the WHITE BALANCE MODE as AUTO, INDOOR, OUTDOOR, SELFDEF (self-defined), ATW (auto-tracking) or HAUTO (half-auto).</p> <p>AUTO: The dome automatically retains color balance according to the current color temperature.</p> <p>INDOOR, OUTDOOR: These two modes are for indoor use and outdoor use respectively.</p> <p>SELFDEF: Adjust the color temperature manually.</p> <p>Note: In SELFDEF mode, you need to adjust the RED and BLUE values manually.</p> <p>ATW: In auto-tracking mode, white balance is continuously being adjusted in real-time according to the color temperature of the scene illumination.</p> <p>HAUTO: Select this mode so that the viewed image automatically retains color balance depending on the current color temperature.</p>
RED	<p>It is used to adjust the red value when choosing SELFDEF for WHITE BALANCE and it can be set from 0 to 255.</p>
BLUE	<p>It is used to adjust the blue value when choosing SELFDEF for WHITE BALANCE and it can be set from 0 to 255.</p>
IMAGE FLIP	<p>When enabled, the image is flipped diagonally along its central axis to obtain a mirror reflection of the image.</p>
FOCUS LIMIT	<p>Set the minimum focus distance.</p> <p>Configure the focus limit at a longer distance when the target is far away to avoid the PTZ dome focusing on objects close to it, or configure a shorter distance when the target is close to the PTZ dome so it does not focus on further away objects.</p>

	Set FOCUS LIMIT to 1cm, 30cm, 1m, 3m, 5m or AUTO to make sure that the PTZ dome focuses on the target. Note: If you test the PTZ indoors the camera may not focus when zooming at high ratio. Please adjust this parameter to a lower value.
2D DNR	ON: The larger the value, the less the noise there will be in low light conditions. OFF: Disable the function.
3D DNR	ON: The larger the value, the less the noise there will be in low light conditions. OFF: Disable the function.
MINI ZOOM LIMIT	Set the minimum zoom of the lens. Note: This function is not supported by all PTZ dome cameras.
CHROMA SUPPRESS	ON: Suppress color noise to obtain clear and high-quality images in low light conditions. OFF: Disable the function.
SATURATION	Saturation indicates the brightness of the color. The higher the saturation, the brighter the color.
CONTRAST	Contrast is the degree of difference between the darker and lighter parts of the image.
SCENE MODE	Select the scene mode as INDOOR or OUTDOOR . The default image settings change depending on the selected scene mode.
HLC	Use this highlight compensation function to compensate for areas with strong spots of light in order to produce clearer images. Set the value to brighten the darker area and weaken the highlight area of the image. The larger the value selected, the stronger the effect.
SHARPNESS COMP	Set the value to automatically adjust the sharpness of the image to get a clear image. The larger the value selected, the stronger the effect.
GAIN LIMIT	The higher gain value you set, the more noise will appear in the image. Set the maximum gain value between 0 and 15 to limit the gain range and control the noise in the image.
DEFOG	Enable this function to improve an image's visibility and clarity in foggy weather.
INIT LENS	Enable this function to automatically initialize the lens to ensure normal operation.

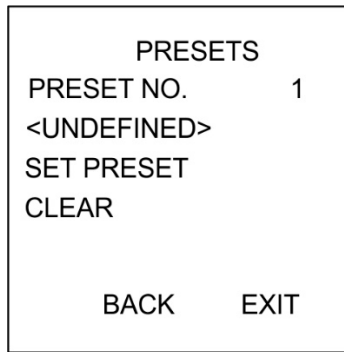
Motion Parameter

MOTION		MOTION	
AUTO FLIP	ON	PRESET SPEED	4
PROPORTIONAL PAN	ON	ENABLE LIMIT	OFF
PARK TIME	5	LIMIT SETTINGS	
PARK	NONE	CLEAR LIMITS	
SCAN SPEED	28	SET ELEVATION	ON
IMAGE FREEZE	OFF		
DOMESPEED	6		
BACK	EXIT	BACK	EXIT

AUTO FLIP	<p>In manual tracking mode, the dome automatically rotates 180 degrees horizontally when a target object passes directly under the PTZ dome for uninterrupted tracking.</p> <p>Note: AUTO-FLIP is set to ON by default. It is not user-definable.</p>
PROPORTIONAL PAN	<p>Use this function to change the pan/tilt speed according to the amount of zoom. When there is a large amount of zoom, the pan/tilt speed will be slower to prevent the image from moving too quickly in live view.</p> <p>Set to ON or OFF to enable/disable the function.</p> <p>Note: This function is enabled automatically while setting a shadow tour.</p>
PARK TIME	<p>This is a period of inactivity after which the PTZ dome automatically starts a predefined action. Set it between 5 and 720 seconds.</p>
PARK	<p>This is a predefined action. It can be set as presets 1-8, shadow tours 1-5, preset tours1-10, pan scan, tilt scan, panoramic scan, day mode, night mode or none.</p> <p>Note: If no control signal is received after the park time under the following situations, no park action is performed:</p> <ul style="list-style-type: none"> - When performing dome actions by calling special presets; or, - When performing external alarm linkage actions.
SCAN SPEED	<p>The scan speed defines the scan degree per second of pan scan, tilt scan, and panoramic scan.</p> <p>Select a scan speed between 1 and 40. The larger the value, the faster the scan speed.</p>
IMAGE FREEZE	<p>Use this feature to directly switch from live view of the current scene to another scene that is defined by a preset without showing the areas between these two scenes. It reduces the bandwidth usage in a digital network system and also provides privacy protection for the areas between the two scenes displayed.</p>
DOME SPEED	<p>Manually set the dome speed between 1 and 10.</p>
PRESET SPEED	<p>Set the speed to call up a preset between 1 and 8. The larger the value, the faster the speed to call up a preset.</p>
ENABLE LIMIT	<p>These are user-configurable positions that limit the panning and tilting area of the PTZ dome. Set the left, right, up and down limits to define an area.</p> <p>ON: This feature is enabled.</p> <p>OFF: This feature is disabled.</p>
LIMIT SETTINGS	<p>Set prompts to set the left, right, up and down limits from the menu.</p>
CLEAR LIMITS	<p>Clear the limit setting.</p>
SET ELEVATION	<p>ON: Enable to increase the elevation angle range of the PTZ dome.</p> <p>OFF: Disable the function.</p> <p>Note: The range of the elevation angle is 0 to 90° by default. It changes to between -15° and 90° when SET ELEVATION is enabled.</p>

Presets

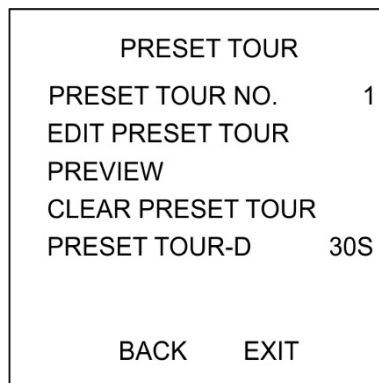
A preset is a user-defined monitoring position/point. You can call up the preset number to change the current monitor scene to the defined position.



PRESET NO.	Select the preset number between 1 and 256. Note: Preset 256 cannot be used for preset tours. It is also not supported by all TruVision recorders.
<UNDEFINED>	This is the preset label. If the preset has been defined, the preset label is displayed under the number. If it has not been defined, UNDEFINED is displayed under the number.
SET PRESET	Set the desired scene/position of the preset.
CLEAR	Clear the preset settings.

Preset Tour

A sequence of user-defined presets stored in the system memory and recalled when required, either upon an alarm trigger, when programmed, or on manual recall.



PRESET TOUR NO.	Select a preset tour number between 1 and 10.
EDIT PRESET TOUR	Enter edit mode. The menu is shown below. Click the left/right directional buttons to position the cursor in the PRESET, DWELL and SPD columns. Click the up/down directional buttons to set the value of the preset number, dwell time and patrol speed.

NUM	PST	DWELL	SPD
1	0	6	30
2	0	6	30
3	0	6	30
4	0	6	30
5	0	6	30
6	0	6	30
7	0	6	30
DONE : OPEN		QUIT : CLOSE	

Note: The presets used in a patrol must be pre-defined. The dwell time is a preset amount of time a camera image is displayed before the camera moves to the next preset position. It is the camera's inactive time. Select a dwell time value between 0 to 800 seconds, which is divided into 30 levels. The patrol speed is the scanning speed the PTZ dome to switch between the presets. Select a patrol speed value between 1 and 40.

PREVIEW	Preview the current patrol.
CLEAR PRESET TOUR	Delete the current patrol.
PRESET TOUR-D	This is the time to switch from one preset to another. Select 5 s, 10 s, 20 s, 30 s, or 60 s.

Timing Task

A timing task is a preconfigured action that can be performed automatically at a specific date and time.

TIMING TASK	
TASK NO.	1
ENABLE TASK	ON
ACTION	NONE
TASK TIME	
TASK PREVIEW	
TASK CLEAR	
BACK	EXIT

TASK NO.	Select a task number between 1 and 8.
ENABLE TASK	ON: Enable the task. OFF: Disable the task.
ACTION	Select a task from preset 1 to 8, shadow tour 1 to 5, preset your 1 to 10, pan scan, tilt scan, panoramic scan, day mode, night mode, zero calibrate and none.
TASK TIME	Click the left and right directional buttons to position the cursor at WEEK, START (H-M) and END (H-M) . Click the up and down directional buttons to set the start and end times to run the time task.

WEEK	WHOLE WEEK
START(H-M)	00 00
END(H-M)	00 00
DONE : OPEN	
QUIT : CLOSE	

Note: The weekday can be set to be from **Monday** to **Sunday** or **Whole Week**; **H** refers to Hour and **M** refers to Minute.

TASK PREVIEW	Preview the current task.
TASK CLEAR	Delete all the defined tasks.

Shadow Tour

A shadow tour is a recording of a user-defined movement of a PTZ dome camera. A shadow tour can be stored and replayed.

SHADOW TOUR	
SHADOW TOUR NO.	1
EDIT SHADOW TOUR PREVIEW	
CLEAR SHADOW TOUR	
REMAINING	100
BACK EXIT	

SHADOW TOUR NO.	Select a shadow tour number between 1 and 5.
EDIT SHADOW TOUR	Use this menu to record a shadow tour. Click the PTZ control and directional buttons to operate the PTZ dome to draw a path, including pan scan, tilt scan, zoom in, zoom out, etc. The PTZ dome automatically memorizes the path as a shadow tour.

REMAIN MEMORY	100
DONE : OPEN	
QUIT : CLOSE	

Note: The pan/tilt movements and the lens operations cannot be simultaneously memorized.

PREVIEW	Preview the current shadow tour.
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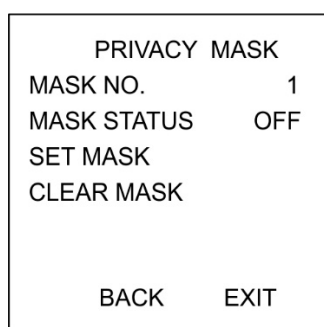
CLEAR SHADOW TOUR	Delete all the defined shadow tours.
REMAINING	This shows the remaining memory of the PTZ dome to configure shadow tours. When it reaches 0, no more shadow tours can be configured.

Privacy Mask

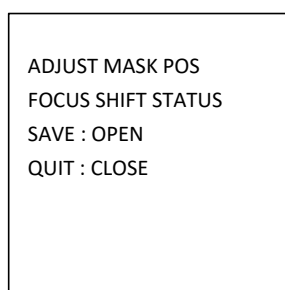
This is a visual block or masked area that is configured to conceal the view in designated areas. For example, blocking out neighboring windows to protect them from being viewed and/or recorded.

The masked areas can move with the pan/tilt movements and automatically adjust in size as the lens zooms in and out.

Note: Occasionally portions of the masked area may be visible when quick pan-tilt-zoom commands are executed. It is recommended that privacy mask regions are configured to extend past the boundaries of the protected area to avoid inadvertent exposure.



MASK NO.	The privacy mask number, which ranges from 1 to 24.
MASK STATUS	ON: Enable the privacy mask function. OFF: Disable the privacy mask function.
SET MASK	Click this menu option to enter the editing mode (see below).



ADJUST MASK POS: Use this function to position the mask on screen. Click the directional buttons to move the privacy mask to the desired area. Click the **FOCUS+** button to call up the *ADJUST MASK SIZE* message on screen. Click the up/down buttons to increase/decrease the height of the mask and click right/left buttons to increase/decrease the width of the mask.

Note: The tilt range to configure privacy masks is between 0° and 70°.

SAVE: Click to save changes and return to the previous menu. The masked area turns gray. To modify the mask, click **IRIS+** to enter the **SET MASK** menu. Click **IRIS+** button again to edit.

QUIT: Cancel.

CLEAR MASK Delete all privacy masks.

Alarm Input

You can configure the PTZ dome to respond to alarm events with alarm linked actions, such as calling presets, preset tours, shadow tours, scanning, etc.

ALARM INPUT	
RESUME	ON
SEQUENCE	5
DELAY TIME	5
ALARM SETTING	
BACK	EXIT

RESUME	<p>ON: Enable the PTZ dome to resume its previous activity after the triggered actions finished.</p> <p>OFF: Disable the PTZ dome to resume its previous activity after the triggered actions finished.</p> <p>Note:</p> <ul style="list-style-type: none">• If the PTZ dome is moving when a linkage action is triggered, it will stop at the current position and resume from this position after the linkage action finishes.• The PTZ dome can be configured to resume the PTZ positions, focus and iris value.
SEQUENCE	<p>This is a user-defined interval after which the PTZ dome will respond to one alarm first and then to the next one when more than one alarm of the same priority occurs at the same time. Set a value between 1 and 200 seconds.</p>
DELAY TIME	<p>If a linkage action has already been triggered by an alarm input, the PTZ dome only responds to the input from the same channel after a user-defined reset delay time.</p> <p>This is the rest time that the PTZ dome considers an alarm to be active when it is physically cleared. Set a value between 0 and 300 seconds.</p>
ALARM SETTING	<p>ALARM NO.: The alarm number up to 2.</p> <p>PRIORITY: Set it as HIGH, MEDIUM or LOW. If multiple alarms with different priorities are triggered at the same time, the dome only responds to the alarm with the highest priority. If multiple alarms with the same priority are triggered at the same time, then the dome will respond to each alarm according to the defined alarm sequence.</p> <p>LINK: It can be set as preset from 1 to 8, shadow tour from 1 to 5, preset tour from 1 to 10, panning scan, tilting scan, panoramic scan, day mode, night mode or none when an alarm occurs.</p>

ALARM OUTPUT: Choose NONE to disable alarm outputs or choose 1 to active ALARM OUTPUT 1.

Note: There is 1 alarm output configurable; configuring the alarm output 2 will be invalid.

ALARM INPUT: Set the input status to OPEN (Normally open), CLOSE (Normally closed) or OFF (disable the alarm input).

Note: If you set the status as OPEN, the alarm will be triggered by high current level. If you set the status as CLOSE, the alarm will be triggered by low current level. If you set the status as OFF, it will be triggered when this input channel is disabled.

ALARM SETTING	
ALARM NO.	1
PRIORITY	HIGH
LINK	NONE
ALARM OUTPUT	NONE
ALARM INPUT	OPEN
BACK	EXIT

Alarm Output

An alarm output is a configurable alarm output interface on the PTZ dome back box which can connect and trigger another alarm device to operate.

ALARM OUTPUT	Set the alarm output type as OPEN (normally open) or CLOSE (normally closed). Note: Only one alarm output can be configured. The second alarm output cannot be configured.
OUTPUT1, OUTPUT2	OPEN: Set the alarm output to normally open. CLOSE: Set the alarm output to normally closed.
DWELL TIME	This is the duration of the alarm output signal. Set the value between 0 and 60 seconds.

Clear Settings

PRESETS	● Clear all the settings of presets.
PRESET TOURS	● Clear all the settings of preset tours
SHADOW TOURS	● Clear all the settings of shadow tours
MASKS	● Clear all the settings of masks.
ZONES	● Clear all the settings of zones.
TIME TASKS	Clear all the settings of timing tasks.

Zones

A zone is a panning and tilting area defined by left/right limits. You can configure the zones in the **ZONES** submenu. Define a zone when the targeted surveillance scene is limited.

ZONES	
ZONE NO.	1
<UNDEFINED>	
EDIT ZONE	
ZONE STATUS	ON
SCAN STATUS	ON
CLEAR ZONE	
BACK	EXIT

ZONE NO.	Select a zone number ranging between 1 and 8.
<UNDEFINED>	This is the zone label. If the zone has been defined, the zone label is displayed under the number. If it has not been defined, UNDEFINED is displayed under the number.
EDIT ZONE	Follow the prompts to set the left and right limits.
ZONE STATUS	This shows the current status of the zone.
SCAN STATUS	ON : Enable zone scanning. OFF : Disable zone scanning.
CLEAR ZONE	Clear the zone settings.

Video Setting

Modify the video output standard, including resolution and frame rate, as desired.

IR Parameter

You can configure the IR parameters including the IR sensitivity, N/M LED current as well as LED control, etc.

Note: The IR parameter settings are supported by IR PTZ domes only.

IR PARAMETER	
IR SENSITIVITY	MEDIUM
N/M LED CURRENT	8
FAR LED CURRENT	8
REFERENCE ZOOM	2
LED CONTROL	AUTO
SWITCH DELAY(S)	2
SMART IR	0
BACK	EXIT

IR SENSITIVITY	Set the sensitivity of the IR LED to HIGH , MEDIUM or LOW .
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N/M LED CURRENT	Select the current of the near/middle IR LED from between 1 to 10.
FAR LED CURRENT	Select the current of the far IR LED from between 1 to 10.
REFERENCE ZOOM	When the actual zoom rate is greater than the zoom limit, the IR switches to long-distance IR LED. When the zoom rate is less than the zoom limit, the IR switches to the near/medium-distance IR LED.
LED CONTROL	Set the LED control. Select one of the options: ALL ON: Enable all IR LEDs FAR ON: Enable long-distance IR LEDs NEAR ON: Enable near/medium-distance IR LEDs AUTO: Enable IR LED automatically depending on the light conditions ICR: Adjust the IR LED working mode according to the ICR (infrared cut filter) CLOSE: Disable IR LEDs
SWITCH DELAY(S)	This is the time delay in switching between long-distance IR LED and N/M-distance IR LED.
SMART IR	Use this function to decrease the overexposure of IR light. It can be set from 0 to 15. The higher the value, the greater the suppression of IR overexposure.

Restore Camera

Enter **MAIN MENU > RESTORE CAMERA**

Click **IRIS+** to restore the camera settings to the default value, or click **IRIS-** to exit.

Note: Camera settings include the image parameters, lens settings and display settings.

Restore Settings

You can reset all dome settings to factory default parameters.

Note: Dome settings are mainly of PTZ parameters and alarm parameters. They also include some system settings, such as the dome address.

Enter default dome settings menu: **MAIN MENUS > RESTORE DEFAULTS**

Click **IRIS+** to restore the dome settings to the default value or click **IRIS-** to exit.

Reboot Dome

Enter **MAIN MENU > REBOOT DOME**. Click **IRIS+** to reboot the PTZ dome remotely.

Language

Enter **MAIN MENU > LANGUAGE**. Click left or right to change the language and click **IRIS+** to confirm the language.