clintonelectronics

PTZ User Manual

CE-PTZ10XHD CE-PTZ10XHD-RM CE-PTZ20XHDR CE-PTZ30XHDRN CE-PTZ30XHDRS

Actual product may vary slightly from the images shown in this manual. Clinton reserves the right, without notification, to make changes in product design & specification.

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IMPORTANT SAFEGUARDS



D REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Cleaning

Unplug this equipment from the power source before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and/or Moisture

Do not use this equipment near water or in contact with water.

6. Accessories

Do not place this equipment on an unstable cart, stand or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

7. Power Sources

This equipment should be operated only from the type of power source indicated on the label. If you are not sure of the type of power, please consult your equipment dealer or local power company.

8. Power Cords

Operator or installer must remove power and communications connections before handling the equipment.

9. Lightning

For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power source and disconnect the cables. This will prevent damage to the equipment due to lightning and power-line surges.

10. Overloading

Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

11. Objects and Liquids

Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

12. Servicing

Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

13. Damage Requiring Service

Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions: **A.** When the power-supply cord or the plug has been damaged. **B.** If liquid is spilled, or objects have fallen into the equipment.

C. If the circuitry has been exposed to rain or water.

D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.

E. If the equipment has been dropped.

F. When the equipment exhibits a distinct change in performance —this indicates a need for service.

14. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

15. Safety Check

Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

16. Field Installation

This installation should be made by a qualified service person and should conform to all local codes.

17. Tmra

A manufacturer's maximum recommended ambient temperature (Tmra) for the equipment must be specified so that the customer and installer may determine a suitable maximum operating environment for the equipment.

19. Reduced Air Flow

Installation of the equipment should be such that the amount of airflow required for safe operation of the equipment is not compromised.

21. Circuit Overloading

Consideration should be given to connection of the equipment to supply circuit and the effect that overloading of circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

22. Reliable Earthing (Grounding)

Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

STARTUP - MAIN MENU - MOTION MENU

Initialize

Upon power-up you will first see the initialize screen which displays: • PTZ ID number • Firmware Version • Video Output Resolution • Protocol • Baudrate • Camera Type & Version • Pan/Tilt Initialization Status	INITIALIZE PTZ ID : 001 VERSION : X. XX D-OUTPUT : 1080p30/NTSC PROTOCOL : PELCO-D BAUDRATE : 2400.N.1 CAMERA : XX XXXOK VER: XX, XX ▷ PAN INIT OK ▷ TILT INIT OK
	▷ TILTINIT OK ▷NORMAL SETTING WAIT

Main Menu

To enter the main menu, press and hold (MERU) button on the keyboard for 3 seconds.

Use the keyboard's joystick to move the cursor up & down within the menu. Keyboard/Joystick input options will be shown at the bottom of each menu screen.



Motion

In the Motion menu, you can set various movement settings such as preset points, tours, alarm areas, etc.

	MAIN MENU
MOTION	
DOME	
CAMERA CLEAR	\triangleright
FACTORY SET PTZ RESET	Γ
EXIT	
< NEAR / RIGH	HT \triangleright MOTION >
	Move Cursor= < ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

Preset

Add a preset to allow the camera to recall a defined position, and quickly access these positions by entering a preset number. A maximum of 220 preset positions can be defined. NOTE: Some preset numbers are allocated to other functions, or are preset as factory set shortcuts.



The Preset number range (1-254) is a general range of presets. Some features have factory preset numbers that are not available to set as a preset. Numbers not available to set as a preset are: 71-78, 81-88, 91-94, 101-106, 240-245, 248, 252, 255.

1. Choose a Preset Number 1~254.

The menu will show all available preset numbers. To view higher numbers, change the first (hundreds position), and second (tens position) number to a larger number.



2. Choose a name for the Preset.







3. Select the focus mode for the preset. Choose from Auto, Manual, or One Shot.



Auto- Camera focuses initially upon reaching the preset point, as well as whenever when the camera detects a scene change such as change in color, movement, etc.

Manual- Set the focus point manually within the "Position Set" menu.

One Shot- Focus camera only once upon initially reaching the preset point.

4. Use the Joystick to set the position coordinates, and the preset zoom level. Also set focus level when in manual mode.

PRESET MENU	PRESET POSITION
NUMBER : 001 TITLE : FOCUS : AUTO POSITION SET EXIT TIME : OFF	<exit focus="" near="" ▷=""> POSITION : 000. 0 000. 0</exit>
SAVE CLR BACK EXIT < NEAR / RIGHT ▷ PRESET POSITION >	
Move Cursor & Camera=	Focus (Manual Mode) = (Constant Constant) Enter/Back (Manual Mode) = (Constant)

5. Set the time interval before the preset name, zoom level, and coordinates disappear from the screen.

PRESET MENU	
NUMBER : 001 TITLE : FOCUS : AUTO POSITION SET ⊳ EXIT TIME : OFF	_
SAVE CLR BACK < NEAR / RIGHT ▷ EXIT TIME >	EXIT
Move Cursor=	

6. Save or Clear the preset settings and exit.

PRESET MENU
NUMBER : 001 TITLE : FOCUS : AUTO POSITION SET ▷ EXIT TIME : OFF
SAVE CLR BACK EXIT < NEAR / RIGHT > DATA SAVE >
Move Cursor=

SAVE- Saves the preset settings CLR- Clear the settings for the current preset BACK- Go back to the previous menu EXIT- Exit the menu

KEYBOARD	To test the Programming: Go to Preset: 1-255 + (PSET)
SHURICUI	

Tour

A tour is a set of preset points which is toured through at a defined movement speed between points, and dwell time at each preset. One tour can consist of 16 separate preset points. A maximum of 8 tours can be configured. A tour will play continuously until interrupted by a keyboard button press or joystick movement.



1. Choose a Tour Number 1~8 to setup.



2. Set the name for the Tour.



3. Select the preset points to include in the Tour. One tour can store 16 preset points.



4. Edit the dwell time and speed for each tour number.



5. Select Time Display option. Turning Time Display ON will show a countdown time until the the tour moves to the next preset point.

TOUR MENU
NUMBER : 01 TITLE : TOUR SET ▷ TIME DISPLAY : OFF
SAVE CLR BACK EXIT < NEAR / RIGHT > TIME DISPLAY>
Move Cursor=

6. Save or Clear the tour settings and exit.

	TOU	JR MENU	
NUMBER TITLE : TOUR SE TIME DIS	C:01 T ⊳ SPLAY:OFF		
SAVE	CLR	BACK	EXIT
< NEAR /	RIGHT ⊳ 1	DATA SAVE >	
		Move Cursor=	Enter=

SAVE- Saves the tour settings CLR- Clear the settings for the current tour BACK- Go back to the previous menu EXIT- Exit the menu

Go to Tour: 1-8 + (TOUR)

Group

A group is a set of tours which is cycled through. One group can consist of 6 separate tours. A maximum of 6 groups can be configured. A group will play continuously until interrupted by a keyboard button press or joystick movement.



1. Choose a Group Number 1~6 to setup.



2. Choose a name for the Group.



3. Select the tours to include in the group. One group can store 6 tours.



4. Save or Clear the group settings and exit.

	TOU	JR MENU	
NUMBER TITLE : TOUR SE TIME DIS	::01 T ⊳ PLAY:OFF		
SAVE	CLR	BACK	EXIT
< NEAR / RIGHT > DATA SAVE >			
		Move Cursor=	

SAVE- Saves the group settings CLR- Clear the settings for the current group BACK- Go back to the previous menu EXIT- Exit the menu

|--|

Scan

A scan is a repeating horizontal (pan) or vertical (tilt) movement between two set points at a defined movement speed between points, and dwell time at each point. A maximum of 8 scans can be configured. A scan will play continuously until interrupted by a keyboard button press or joystick movement.





3. Edit the speed and dwell time for the scan. Speed is the movement speed between tour points. Dwell Time is the number of seconds the camera will pause on a selected preset point.



4. Choose a motion type for the scan. A scan will only perform a single movement type (Pan or Tilt). If you wish to use both pan and tilt movements simultaneously, use the Preset and Tour functions detailed on previous pages.

SCAN MENU	PAN	TILT	
NUMBER : 06 TITLE : SPEED : NONE DWELL : NONE MOTION TYPE : NONE DIRECTION : NONE START POS ▷ END POS ▷ SAVE CLR BACK EXIT < NEAR / RIGHT ▷ MOTION TYPE>		0°	

90°

5. Choose a movement direction for the scan. Clockwise and Counter-Clockwise Pan movements are oriented as if you are looking from the top of the PTZ. Set the appropriate direction to have the camera scan the desired horizontal portion of the surveillance area.



6. Choose a Start and End Position for the scan.



Choose a Start and End Position...continued.



7. Save or Clear the scan settings and exit.



SAVE- Saves the scan settings CLR- Clear the settings for the current scan BACK- Go back to the previous menu EXIT- Exit the menu



Pattern

A pattern is a memorized path of movement with defined zoom controls. A maximum of 4 patterns can be configured, with a maximum of 65 seconds of recording time for each pattern. A pattern will play continuously until interrupted by a keyboard button press or joystick movement.



1. Choose a Pattern Number 1~4 to setup.



2. Choose a name for the Pattern.

PATTERN MENU	PATTERN TITLE EDIT: <04>
	TITLE :
NUMBER: 04 TITLE :	0 1 2 3 4 5 6 7 8 9 (
RECORD >) A B C D E F G H I J K
PLAY D	LMNOPQRSTUVW
	XYZ./,+-=<>()
SAVE CLR BACK EXIT < NEAR / RIGHT ▷ PATTERN TITLE >	<store joystick="" move="" tele="" ▷=""> <delete back="" near="" wide="" ▷=""></delete></store>
Move Cursor= <>> Select Characte	er= 🔊 Or 🗮 Delete Character= 🔊 Or 📰 Enter/Back= 🕮

3. Record a movement pattern. Press "Far" button to start recording. Use the joystick to define zoom and movement path. Press "Near" to set the pattern and return to the previous menu.



4. Selecting Play from the Patten menu will allow you to preview the pattern by playing it one time. Calling a pattern normally using the keyboard will play the pattern continuously until interrupted by a button press or joystick movement. When playing a pattern, you will see a count timer in the lower center of the screen which will count upwards until the first progress number reaches the second recording limit number.



5. Save or Clear the pattern settings and exit.

PATTERN MENU	
NUMBER:04 TITLE: RECORD ▷ PLAY ▷	
SAVE CLR BACK <near play="" right="" ▷=""></near>	EXIT
Move Cursor=	

SAVE- Saves the pattern settings CLR- Clear the settings for the current pattern BACK- Go back to the previous menu EXIT- Exit the menu

Area

Setting an Area will display a defined name between two programmed pan positions in order to better identify an area of surveillance. A maximum of 16 areas can be configured.



1. Choose a Area Number 1~16 to setup.



2. Choose a name for the Area.



5. Select a Start (S Pan Pos.), and End (E Pan Pos.) pan position to set the display direction for the area. Clockwise and Counter-Clockwise area segments are oriented as if you are looking from the top of the PTZ. Set the appropriate direction to have the area label appear in the desired horizontal portion of the surveillance area.



4. Save or Clear the Area settings and exit.

AR	EA MENU	
NUMBER : 06 TITLE : DIRECTION : NONE S PAN POS. ▷ E PAN POS. ▷	2	
SAVE CLR < MOVE & NEAR ▷	BACK AREA>	EXIT
	Move Cursor= ⊲ộ ►	Enter=

SAVE- Saves the area settings CLR- Clear the settings for the current area BACK- Go back to the previous menu EXIT- Exit the menu

Alarm

Programming an alarm will move the camera to a preset position when an external alarm is triggered. Refer to the PTZ installation instructions for more information on wiring an alarm. Number of alarms will vary based on PTZ model.



1. Choose a Alarm Number to setup.



2. Choose a name for the Alarm.



3. Choose preset position for the camera to go to when alarm is triggered.



4. Save or Clear the Alarm settings and exit.

ALARM MENU	
NUMBER : 02 TITLE : WEST LOT PRESET NUM : 006	
SAVE CLR BACK < NEAR / RIGHT & ALARM >	EXIT
Move Cursor=	Enter=

SAVE- Saves the alarm settings CLR- Clear the settings for the current alarm BACK- Go back to the previous menu EXIT- Exit the menu

Privacy

A privacy mask is a block of color that appears over a defined area to prevent the camera from viewing. A maximum of 8 privacy masks can be configured.



1. Choose a Privacy Mask number to setup.



2. Set the Privacy Mask position. The Privacy Mask will appear at the center of the screen. Move the camera with the joystick until the mask is positioned over the area to conceal. To adjust the mask size to cover a smaller area, press the "close" button. To make the mask larger, press the "open" button.



3. Save or Clear the Privacy settings and exit.

PRIVACY MENU	
NUMBER ∶05 MASK SET ▷	
SAVE CLR BACK <near privacy="" right="" ▷=""></near>	EXIT
Move Cursor=	Enter=

SAVE- Saves the privacy settings CLR- Clear the settings for the current privacy mask BACK- Go back to the previous menu EXIT- Exit the menu

Home Position

If a camera loses power, or reboots, the camera will return to the home position. If a home position is not defined, the camera will return to the last position that the in which it was pointed.

	MAIN MENU	MOTION MENU
		PRESET >
	MOTION ►	$\begin{array}{c c} TOUR & \triangleright \\ GROUP & \triangleright \end{array}$
	DOME D	SCAN >
	CLEAR >	PATTERN ▷ AREA ▷
	FACTORY SET	ALARM >
	1 IZ ALSEI	PRIVACY ▷ HOME POS ▶
	EXIT	BACK EXIT
	< NEAR / RIGHT > MOTION >	< NEAR / RIGHT > HOME POS >
1. Turn Ho	me Position On/Off.	Move Cursor= $\triangleleft \widehat{o} \vdash$ Enter=
	HOME POS MENU	
	ON/OFF : OFF	
	SAVE CLR BACK EXIT	
	< NEAK / RIGHT & UN/UFF >	
	Move Cursor= ◀� Back= ◯ Back=	
2. Set the	Home Position location.	
	HOME POS MENU	HOME POSITION
	ON/OFF : OFF	
	POSITION SET ►	
	SAVE CLR BACK EXIT	< EXIT > FOCUS NEAR >
		POSITION : 000. 0 000. 0
		Move Camera= 💠 Zoom= 🗖 or 🖽 Market 🕬 Back=
3. Save o	r Clear the Home Position settings and exit.	
		SAVE- Saves the home position settings
	HOME POS MENU	CLR- Clear the settings for the current home position
	ON/OFE · OFE	BACK- GO back to the previous menu FXIT- Fxit the menu
	POSITION SET >	
		KEYBOARD To test the Programming:

Go to Home Position: 255 +

SHORTCUT

BACK

EXIT

SAVE

CLR

Dome Menu

In the Dome menu, you can adjust the mechanical features and OSD settings.

MOTION > DOME > CAMERA > CLEAR >	
MOTION DOME CAMERA CLEAR D	
DOME►CAMERA▷CLEAR▷	
CAMERA ▷ CLEAR ▷	
CLEAR >	
FACTORY SET	
PTZ RESET	
EXIT	
$<$ NEAR / RIGHT \triangleright DOME $>$	

Title

Set the display name for the PTZ camera. This name will appear in the lower left corner of the On-Screen Display.



Speed by Zoom

With this setting turned ON, the pan and tilt movement speeds will adjust according to the zoom level for a more natural and accurate operation. Turning this setting OFF will enable pan and tilt movements at full speed, regardless of zoom level.

	DOME MENU	
TITLE SPEED BY ZO	: OM · ON	_
OSD ON/OFF PARK MODE TEMPERATUF SPECIAL ZERO POS DOME RESET		
SAVE < NEAR / RIGH	BACK IT ▷ FUCTION >	EXIT
	Move Cursor= ◄	

OSD ON / OFF

Customize the type of labels that are shown on the On Screen Display. O indicates OSD selection is ON, X indicates selection is OFF.





On-Screen Label Overview

TITLE: Turn camera name ON/OFF.

ZOOM: Turn zoom level indicator ON/OFF.

PRESET: Turn preset name ON/OFF.

TOUR: Turn tour name ON/OFF.

GROUP: Turn group name ON/OFF.

SCAN: Turn scan name ON/OFF.

PATTERN: Turn pattern name ON/OFF.

PRIVACY: Turn privacy mask ON/OFF.

AREA: Turn area name ON/OFF.

ALARM: Turn alarm name ON/OFF.

POSITION: Turn position name ON/OFF.

ACTION: Turn action indicator such as heater/fan label ON/OFF.

Park Mode

Park Mode is a programmed action that will take place if the camera remains idle for a defined time period. This action can be moving to a preset, or calling a tour, group, scan or pattern.



ON/OFF: Turn Park Mode ON/OFF.

TIME: Duration before Park Mode will start. 10 Sec, 30 Sec, 1 Min, 5 Min, 10 Min, 20 Min, 30 Min, 40 Min, 50 Min, 1 Hour. **MOTION**: Action to occur after time duration. Select from Preset, Tour, Group, Scan, or Pattern.

NUMBER: Select the programmed number for the selected motion type.

Temperature

Check the current internal temperature (in Celsius) of the camera. Define the temperature at which the internal heater and fan will turn on, and duration the heater will remain on. **This function is available on outdoor PTZ models only.**



HEATER ON: Temperature at which the internal heater will turn on. 0~70°C.

ON TIME: Duration heater will remain on before cycling off. 10~60 Min. If internal temperature doesn't reach the set Heater Off temperature within the set On Time, the heater will restart the On Time until temp is reached.

HEATER OFF: Temperature at which the internal heater will turn off. 0~70°C.

FAN ON: Temperature at which the internal fan will turn on. 0~70°C.

FAN OFF: Temperature at which the internal heater will turn off. 0~70°C.

Special

Change video output, user interface, and dome operation options within the Special menu.



HDSDI FORMAT: Select HD Resolution. 1080p30, 1080p60, 720p30, 720p60. NOTE: Switching to 1080p60 will result in video loss if the attached device (DVR/monitor) does not support 60FPS.

TILT LIMIT: Select the angle at which PTZ tilt will stop. NOT AVAILABLE ON ALL PTZ models.

POWER UP: With this function on, the camera will remember the last program action (such as tour, scan, etc.) and if a power loss occurs the camera will continue the last action upon power up.

FLIP TYPE/AUTO FLIP: With flip set to on, the camera will automatically pan the camera 180° when tilt has reached its maximum limit of 90°. This provides for a more natural operation. Some models have a "D FLIP" option, where the camera image will flip digitally rather than mechanically.

SCROLL TYPE: This function relates to how the joystick operates within the menus. With this function set to Step, each joystick movement will advance the cursor one time. Setting this to Auto will allow the user to hold down the joystick to advance the cursor to the next selection.

RESPONSE: Set to on for the Tx communication line to transfer unique protocol response values. This function sets whether or not to output Response Packet for Action Packet when using Clinton, Pelco-D V5, or EZP protocols.

P-FREEZE: Preset Freeze relates to movement between preset points (either calling individual presets, or running a tour). When set to on, the screen image will cycle through preset points, without showing camera movement between these points. Screen image will be temporarily frozen while the camera moves to the next preset point.

Zero Pos

With this function you can set the horizontal (pan) zero position to one of your choice. Vertical (Tilt) zero position will not be effected.



Dome Reset

Select Yes under this function to reset all settings in the "Dome Menu" only to factory defaults.

	DOME MENU	
TITLE : SPEED BY ZOO OSD ON/OFF PARK MODE TEMPERATURE SPECIAL ZERO POS DOME RESET	M : ON ▷ ▷ ▷ ▷ ▷	_
SAVE < NEAR / RIGHT	BACK ▷ DOME INIT >	EXIT
	Move Cursor= 🔹	• Enter=



This function only applies to PTZ models equipped with IR LEDs

External IR Set

Modify the settings of Infrared (IR) Lights. NOTE: With some PTZ models it may be necessary to select the next page of the Dome Menu settings to see this option.



IR SYNC MODE: Select the IR LED activation mode.

ALS SYNC- Auto Light Source Sync will allow the camera to automatically detect the amount of incoming light and activate the IR LEDs accordingly.

ICR SYNC- Infrared Cutfilter Removal Sync turns IR LEDs on/off according to the illuminance input to the camera lens without changing the illuminance measurement by the CDS sensor.

ALL OFF- With this mode, IR LEDs are always off.

ALL ON- With this mode, IR LEDs are always on.

IR ILLUMINATE: Select the illumination level for the IR LEDs. Select from Highest, High, Low, Lowest.

ICR CHG LUX: Set the incoming light lux level at which the camera will change from day to night mode. Adjustable from 0.5~10 Lux. For Night-to-Day switching +5 lux will be added.

IR CONT. TYPE: Function to allow IR LEDs to be adjusted in conjunction with the zoom level of the camera. Auto is the default setting and will adjust the LEDs automatically when the camera zooms. Setting to USER mode in conjunction with setting the Focus mode within the Camera Menu to MANUAL will allow the IR adjustment to be controlled when manually using tele / wide controls.

IR OFFSET: IR sensitivity adjustable from -4~+4.



This function only applies to PTZ models equipped with a wiper

Wiper Setting

Set the operation of the lens wiper. NOTE: With some PTZ models it may be necessary to select the next page of the Dome Menu settings to see this option.



WIPER MODE: Select the lens wiper operation mode.

ON MODE- Wiper will activate continuously every 5 seconds until turned off.

OFF MODE- Wiper is always off.

TIME SET- Use in combination with "Wiper Time" menu option to set the frequency at which the wiper will activate.

WIPER POS.: Set the resting position for the wiper (Bottom, or Right side of the lens). Not available on all PTZ models.

WIPER TIME: When Wiper Mode is set to "Time Set", choose the frequency at which the wiper will activate. Selectable from 1 Min-1 Hour.



Camera Menu

In the Camera menu, you can define camera operation settings.

	MAIN MENU	
MOTION		
CAMERA ► CLEAR ►		
FACTORY SET PTZ RESET		
EXIT < NEAR / RIGH	Γ ▷ DOME>	

Zoom Mode

Set zoom speed and options for the PTZ.

CAMERA MENU		ZO	OM MENU		
ZOOM MODE 🕨	ZOOM SPD		: USER		
FOCUS MODE >	D-ZOOM	\triangleright	: OFF		
WHITE BAL. \triangleright					
AUTO EXP. >					
WDR MODE					
SPECIAL >					
STABILIZER 🗁					
CAMERA RESET ▷					
SAVE BACK EXIT	BACK				
\sim NEAR / RIGHT \triangleright ZOOM MODE >	< NEAR / RIGH'	T D	D-700M	>	

ZOOM SPD: Select the speed at which the camera can zoom in/out. Select speed from 0~7, or User mode, which allows the joystick to recognize various levels of user input and will zoom the camera accordingly.

D-ZOOM: Turn on/off the digital zoom function. Digital zoom level is dependent on PTZ camera model.

Focus Mode

Set focus speed and options for the PTZ.

CAMERA MENU	FOCUS MENU
ZOOM MODE 🛛 🗁	FOCUS SPD 🕨 : USER
FOCUS MODE	FOCUS MODE ▷ : AUTO
WHITE BAL. \triangleright	NEAR LIMIT \triangleright : 1M
AUTO EXP. 🗅	AF MODE > : NORMAL
WDR MODE	
SPECIAL	
STABILIZER 🗅	
CAMERA RESET \triangleright	
SAVE BACK EXIT < NEAR / RIGHT ▷ FOCUS MODE >	BACK < NEAR / RIGHT > FOCUS SPD >

FOCUS SPD: Select the speed at which the camera can focus. Select speed from 0~7, or User mode, allows the joystick to recognize various levels of user input and will focus the camera accordingly.

FOCUS MODE: Select from various ways in which the camera will focus on a scene.

AUTO- The camera adjusts the focus automatically while monitoring the screen continuously.

MANUAL- Manually set the focus with the keyboard controls.

ONEPUSH- Camera will focus only one time after the camera's zoom, pan, or tilt is adjusted.

INFINITY- Allows you to focus on a subject at a long distance within the camera's allowable range.

NEAR LIMIT: Set the closest point at which the camera should try to focus.

AF MODE: Set the function of the auto focus. Focus Mode must be set to AUTO in order to access these options.

NORMAL- Auto focus reacts as a scene change is detected.

INTERVAL- Auto focus is performed once every 255 seconds.

White Balance Mode

Set white balance mode and levels.



WB MODE: Set the white balance mode. Select from Auto, Indoor, Outdoor, OnePushAWB, or Manual.

RED GAIN: Set the red levels in the screen image. Only selectable when WB Mode is set to Manual. Select from 0~20.

BLUE GAIN: Set the blue levels in the screen image. Only selectable when WB Mode is set to Manual. Select from 0~20.

Auto Exposure

Auto 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.

CAMERA MENU	AUTO EXPO. MENU
ZOOM MODE	AE MODE I AUTO
FOCUS MODE 🛛 🗁	EXPOSURE >: AUTO
WHITE BAL. \triangleright	AGC LEVEL ▷: OFF
AUTO EXP.	SHUTTER D: AUTO
WDR MODE	IRIS LEVEL ▷: AUTO
SPECIAL >	BRIGHT LEVEL D: ON
STABILIZER 🗁	SLOW SHUTTER ▷: 1.5dB
CAMERA RESET ▷	DSS LEVEL $\triangleright: XX$
SAVE BACK EXIT < NEAR / RIGHT ▷ AUTO EXP. >	BACK < NEAR / RIGHT ▷ AE MODE SEL >

AE MODE: Select the desired Auto Exposure mode.

AUTO- Exposure settings are determined automatically.

MANUAL- Requires you to manually configure the settings for gain, iris, and shutter to achieve proper exposure.

SHUTTER- Configure shutter settings only. All other settings are determined automatically.

IRIS- Configure iris settings only. All other settings are determined automatically.

BRIGHT- Configure Brightness settings only. All other settings are determined automatically.



EXPOSURE: Configure the concentration of light used to produce an image exposure. Select from 0~20. The AE MODE must be set to SHUTTER, AUTO or IRIS to configure the iris setting.

AGC LEVEL: Setting the Auto Gain Control Level allows you to artificially create a brighter (high gain) or darker (low gain) image. AE Mode must be set to Manual to select a numerical value. All other AE Modes will only allow on/off selection. Select from ON/OFF, or from 1~10.

SHUTTER: Setting the shutter speed determines how long the camera shutter remains open when capturing an image. AE Mode must be set to Manual or Shutter to change this setting. Select from 1/8 ~ 1/30,000.

IRIS LEVEL: Setting the iris manually determines how much light comes through the lens. The AE MODE must be set to MANUAL or IRIS to configure the iris setting.

BRIGHT LEVEL: Setting the brightness manually determines how much light comes through the lens. The AE MODE must be set to BRIGHT to configure the iris setting.

DSS LEVEL: Setting the Digital Slow Shutter manually allows to adjust the amount of light being allowed to hit the sensor - for example, setting DSS to 2x is equivalent to two times the amount of "normal" light. Select from 2x-8x, or OFF. The AE MODE must be set to AUTO or IRIS to configure this setting.

WDR Mode

Wide Dynamic Range Mode is used to correct the harsh contrast between bright and dark areas of the camera image.



WDR MODE: Turn Wide Dynamic Range On/OFF or Auto.



WDR LEVEL: Configure the concentration of light used to produce an image exposure. Select from 0~4. The WDR MODE must be set to ON to configure this setting.

ACE MODE: Adaptive Contrast Enhancer is capable of improving contrast, while preserving fine details and avoiding common artifacts, gradient reversals or loss of local contrast. The WDR MODE must be set to ON to configure this setting. Note, The DEFOG setting withing the SPECIAL menu will be disabled when ACE MODE is on.

Special

Configure other special settings.



SPECIAL SUB: Select the desired Auto Exposure mode.

ICR MODE- Infrared Cutfilter Removal mode applies beneficial settings to the selected mode. With DAY selected, the IR cut filter is on when the camera is operating as a color camera in order to filter out IR light from the sun which results in more precise color reproduction. With NIGHT selected, the filter is removed which allows for more IR light from the IR LEDs to enter the lens for much greater light sensitivity in monochrome mode. Auto will apply best settings when switching from day to night modes.

ICR LEVEL- Requires you to manually configure the settings for gain, iris, and shutter to achieve proper exposure.

BLC X POS- Set the X (horizontal) starting point to apply Backlight control. NOTE: BLC must be set to ON in the SPECIAL MENU to modify this setting.

BLC Y POS- Set the Y (vertical) starting point to apply Backlight control. NOTE: BLC must be set to ON in the SPECIAL MENU to modify this setting.

BLC X SIZE- Set the X (horizontal) size of the Backlight control area. NOTE: BLC must be set to ON in the SPECIAL MENU to modify this setting.

BLC Y SIZE- Set the Y (vertical) size of the Backlight control area. NOTE: BLC must be set to ON in the SPECIAL MENU to modify this setting.

APERTUREGAIN: Emphasize the boundary of the subject to make it appear more sharp. Level is adjustable from 0~10.

BACK LIGHT: In images where a bright light source is located behind the subject, the subject would normally appear in silhouette. BLC allows the camera to adjust the exposure of the entire image to properly expose the subject in the foreground. In the Camera Menu, the WDR MODE must be set to OFF in order to select BackLight.

DNR LEVEL: Select the level of Digital Noise Reduction to use in low light. Higher levels indicate a higher reduction of noise.

DEFOG: Clear up a foggy image digitally by turning this function on. NOTE: ACE MODE within the CAMERA MENU's WDR MODE menu must be turned Off in order to enable this setting.

FLICKERLESS: Compensate for a flickering image. Not available on all PTZ models.

SHARPNESS: Set the sharpness of the image. Not available on all PTZ models.

PRESET FREEZE: Preset Freeze relates to movement between preset points (either calling individual presets, or running a tour). When set to on, the screen image will cycle through preset points, without showing camera movement between these points. Screen image will be temporarily frozen while the camera moves to the next preset point. Setting may be located in DOME / SPECIAL MENU on some PTZ models.

PRIVACY COLOR: Change the privacy mask color. Select from White, Red, Green, Blue, Cyan, Yellow, Magenta, Black, or Gray. Not available on all PTZ models.

Move Cursor= ◄••

Enter=

Stabilizer

This function electronically compensates for an unstable camera image due to areas that are exposed to wind or vibration.

CAMERA MENU	STA	BILIZER MENU
ZOOM MODE 🛛 🗁	MODE	► : OFF
FOCUS MODE >	RANGE	▷:
WHITE BAL. \triangleright	FILTER	▷:
AUTO EXP. >	AUTO C	▷:
WDR MODE >		
SPECIAL D		
STABILIZER 🕨		
CAMERA RESET \triangleright		
SAVE BACK EXIT	BACK	
$<$ NEAR / RIGHT \triangleright STABILIZER $>$	< NEAR / RIGHT	> STABILIZER >

MODE: Turn Stabilizer Mode On/OFF.

NOTE: When Stabilizer is set to ON, some effective pixels on the edge of the CCD are used by the stabilization function. This will result in a reduction in resolution and a narrower angle of view.
Image stabilization may not function where there is excessive camera movement or when the scene has low light or low contrast objects.

RANGE: Range is effectively a level of image stabilization. The percent range refers to the amount of viewable area that will be consumed from the perimeter to enable image stabilization. The larger the percentage, the greater effect image stabilizer will have.

FILTER: Select the filter strength level of Digital Image Stabilization. For example: if a large moving object is on the screen, it may be recognized as a shaking screen, and an error may occur with the image stabilization. The lower the filter strength, the better the stabilization, but also will result in higher probability of error occurring.

AUTO C: Function which determines whether or not to move the digital zoom area to the center of the full screen which is actually being shown. Selecting OFF will keep the position even if Digital Zoom is pointing in one direction. Full moves the screen image to the center of the screen. Half moves the screen image toward the center only to a certain degree of margin.

Camera Reset

Restore factory settings to the camera menu.

	CAN	MERA MENU		
ZOOM MO	DE ▷			
FOCUS MO	DDE ▷			
WHITE BA	L. D			
AUTO EXP	P. Þ			
WDR MOE	DE D			
SPECIAL	\triangleright			
STABILIZE	ER ▷			
CAMERA	RESET 🕨			
SAVE < NEAR / R	BACK IGHT ▷	EXIT CAM RESET	Γ >	
		Move Cursor	= ⊲ Q́►	Enter=

MAIN MENU

Clear

Choose to clear data for specific functions. Press the Tele button to clear the data of the highlighted function. The icon will change from X to O when selected.



Factory Set

Restore factory settings to the PTZ.

	Μ	[AIN	MEN	IU		
MOTION	\triangleright					
DOME	\triangleright					
CAMERA	\triangleright					
CLEAR	\triangleright					
FACTORY SE	ET	YE	S < N	0>		
PTZ RESET						
EXIT						
< NEAR / RIC	ΉT	\triangleright	CLEA	AR>		
					 _	
					1 _	

PTZ Reset

Reboots the PTZ.

	MAIN MENU	
MOTION	\triangleright	
DOME	\triangleright	
CAMERA	\triangleright	
CLEAR	\triangleright	
FACTORY SI	ET	
PTZ RESET	YES <no></no>	
EVIT		
EAH - NEAD / DH	CLEADS	
< NEAK / KI	JHI / CLEAK-	
< NEAR / RIG	JHI V ULEAR>	
		Dook-

KEYBOARD

Keyboard Shortcut Guide

FUNCTION	BUTTON PRESS				
ICR AUTO (ON)	240 +				
ICR DAY (ON)	241 +				
ICR NIGHT (ON)	242 +				
WIPER- 10 MIN. TIME SET MODE (ON/OFF TOGGLE)	243 +				
WIPER (ON/OFF)	244 +	\bigcirc			
HEATER (ON/OFF)	245 +	(HOLD 3 SEC.)			
IR ZOOM (AUTO/MANUAL TOGGLE)	248 +				
IR LEDs (ON/OFF)	252 +				
DISPLAY INFO	255 +				
SET PRESET*	1~254 +				
GO TO PRESET*	1~254 +	(PSET) F1			
GO TO HOME POSITION	255 +	PSET F1			
	1~8 +	(HOLD 3 SEC.)			
SET TOUR	71~78 +	(HOLD 3 SEC.)			
	1~8 +	TOUR F2			
GUTUTUUR	71~78 +	(PSET) F1			
SET GROUP	101~106 +	(HOLD 3 SEC.)			
GO TO GROUP	101~106 +	(PSET) F1			
	1~8 +	(HOLD 3 SEC.)			
SETSCAN	81~88 +	(HOLD 3 SEC.)			
	1~8 +	Scan F4			
GO TO SCAN	81~88 +	(PSET) F1			
	1~4 +	(HOLD 3 SEC.)			
SET PATTERN	91~94 +	(HOLD 3 SEC.)			
	1~4 +	PATT F3			
GU IU PALIERN	91~94 +	(PSET)			

The Preset number range (1-254) is a general range of presets. Some features have factory preset numbers that are not available to set as a preset. Numbers not available to set as a preset are: 71-78, 81-88, 91-94, 101-106, 240-245, 248, 252, 255.

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PTZ User Manual

CE-PTZ10XHD CE-PTZ10XHD-RM CE-PTZ20XHDR CE-PTZ30XHDRN CE-PTZ30XHDRS

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