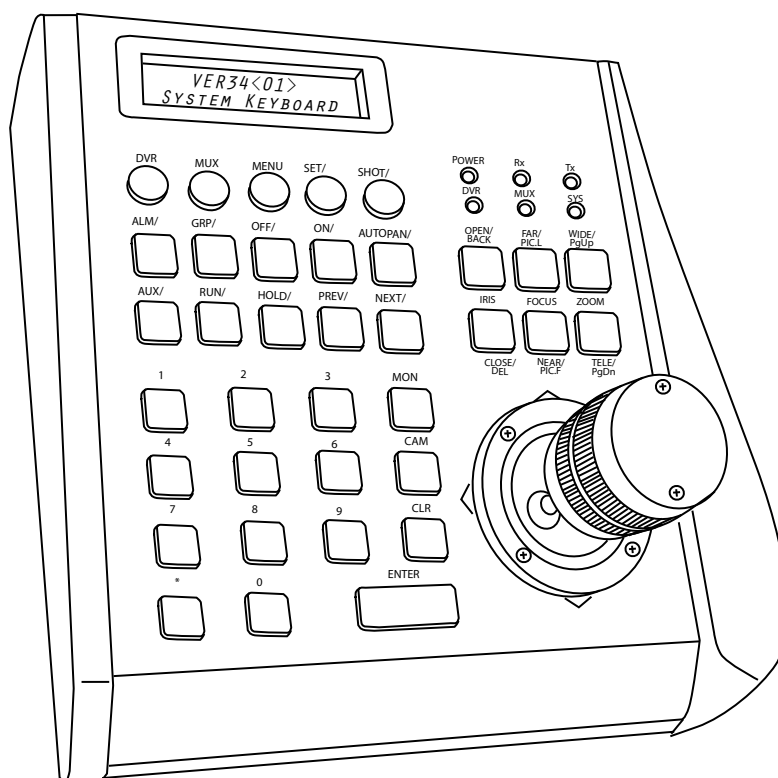


Multi-functional Programmable Controller

CE-PTZ-KEY

User Manual



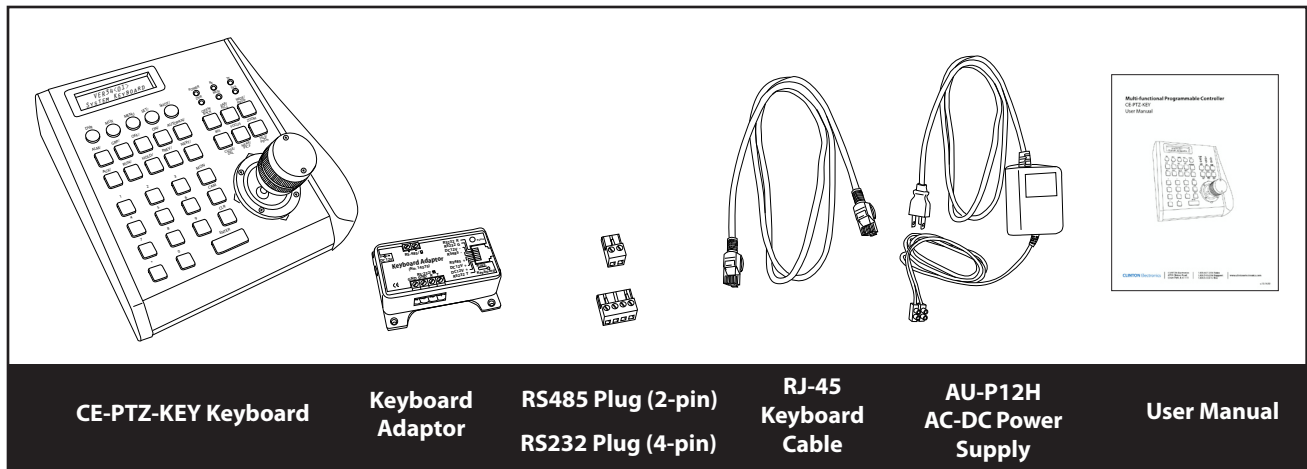
Introduction

Congratulations on the purchase of your new CE-PTZ-KEY. This device is a multi-functional, programmable keyboard controller for Pan-Tilt-Zoom devices, DVRs, and Matrix devices, and can be programmed with individual protocol settings for each connected device. It is equipped with a 3-Axis joystick for performing Pan, Tilt, and Zoom with a single hand.

Main Features:

- Manage up to 9999 devices
- Controls PTZ, DVR, and Matrix in different protocol with pre-programmed settings
- 3-Axis joystick
- Multiplexer operation with DVR and PTZ
- Password-protected for administrative access
- Supports major telemetric protocols
- Dual serial interface with RS232 and RS485
- Supports major DVR brands
- Aluminum construction
- Ergonomic Design

PACKAGE CONTENTS

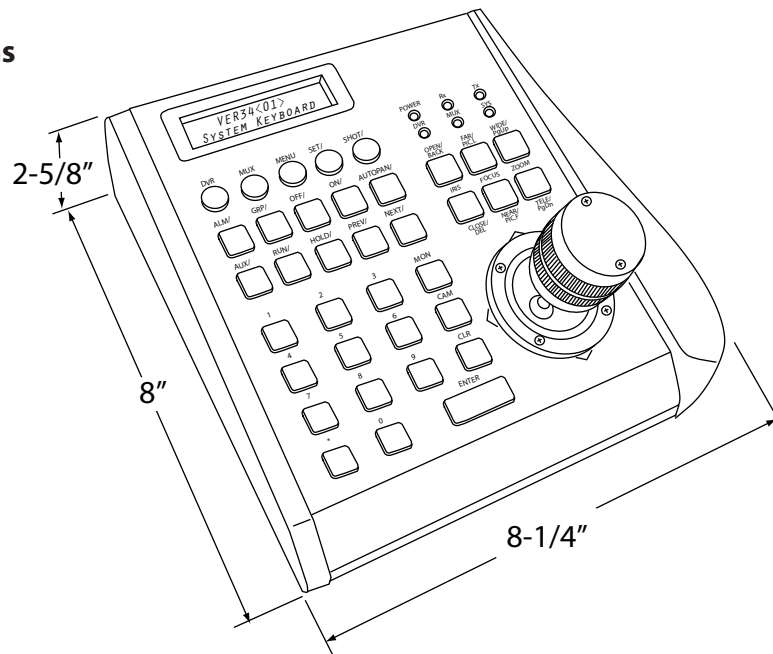


Installation and Set up

Unpacking your keyboard

Your keyboard comes with a power supply, as well as a keyboard adaptor, and connecting plugs, and cable. Carefully remove the contents from its packing and set on a firm surface. Save the packing in case of future service requirements or transportation needs.

Dimensions



Precautions

For all service or installation needs, please refer to qualified service personnel or system installers

Do not attempt to disassemble the device

To prevent electric shock, do not remove screws or cover. There are no user-serviceable parts inside. Contact qualified service personnel for maintenance

Handle the device with care

Do not strike or shake, as this may damage the device. It should be protected against extreme pressure, vibration, and humidity during transportation and storage. Damages caused by improper transportation may void the warranty.

Do not operate the device beyond its specified temperature, humidity, or power source ratings.

Do not use the dome camera in an extreme environment where high temperature or high humidity exists.

Do not install this product in a flammable and explosive environment.

Make sure that the installation is done according to your local electricity and safety regulations.

Before installation or maintenance, make sure the device is disconnected from the power source.

Do not use any power source other than 12vdc in order to prevent damages to this device.

For details, please refer to the "Specifications" section for further details.

Handle the device during the installation carefully.

Falls, or extreme vibration may cause irreparable damages and void the warranty.

Do not install or operate the device near any high voltage devices or high voltage cable.

The safety distance should remain at least 50m.

This product should be operated indoor only.

WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, SO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

FCC COMPLIANCE STATEMENT

FCC INFORMATION: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USERS AUTHORITY TO OPERATE THE EQUIPMENT.

CE COMPLIANCE STATEMENT

WARNING: THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT, THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

CAUTION: BEFORE ATTEMPTING TO CONNECT OR OPERATE THIS PRODUCT, PLEASE READ THE LABEL ON THE BOTTOM AND USER'S MANUAL CAREFULLY.

Technical specifications are subject to change without prior notice. Manual may contain mistakes or print errors. All trademarks mentioned belong to their respective owners.

Installation

Safety Instructions before starting

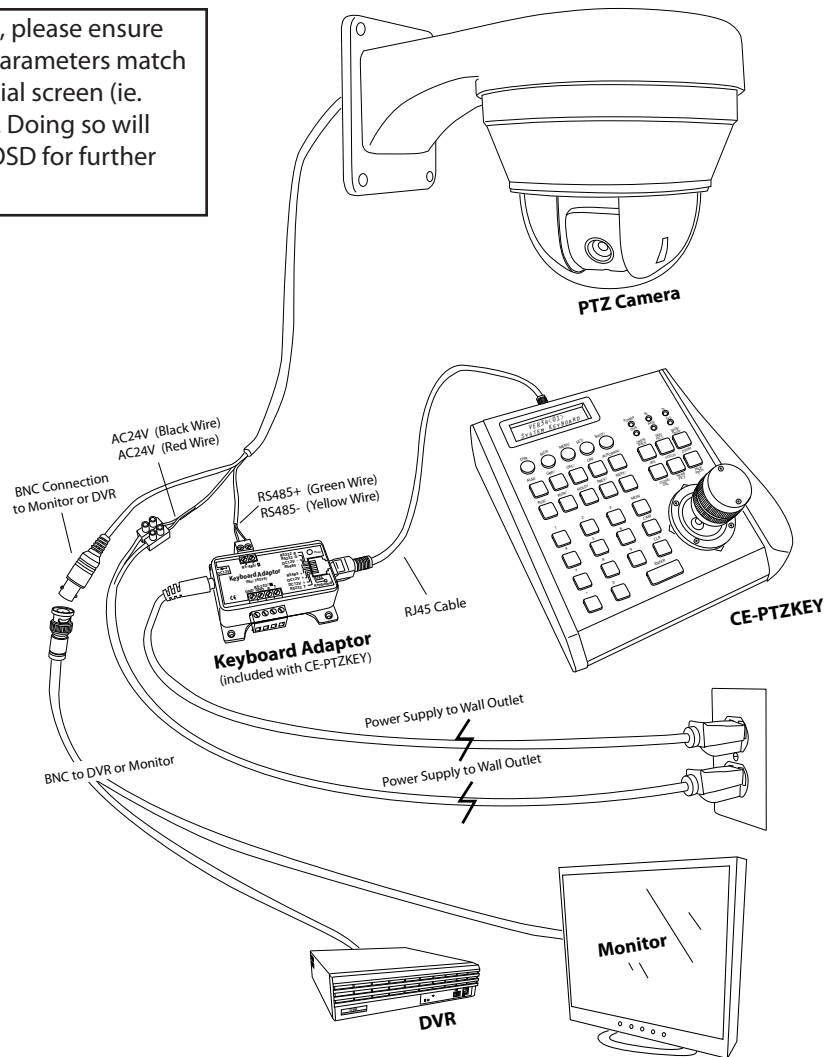
- Do not install and operate this appliance in a flammable and explosive environment.
- Make sure that the installation is done according to the local electricity safety regulations of your country.
- Before installation and maintenance, make sure that the appliance is disconnected from the power source.
- Handle the device during installation carefully. Falls or extreme vibration may cause irreparable damages or void the warranty.
- Do not install or operate the device near any high-voltage devices or high-voltage cable. The safety distance should remain at least 50m.
- To achieve best image quality, its recommended to use underground cable shielded with steel tube. Do not install the cable without any protection.
- In a thunderstorm area or region with high inductive voltage, such as high voltage transformer stations, it is necessary to use additional lightning-proof equipment or lightning rod for protection.
- For outdoor installation, lightning-proof and grounding of the device should be considered. Please refer to the industrial safety regulations of your country.
- Grounding should be considered to eliminate any interference and fulfill the safety requirements. Do not connect the ground with short-circuited or other high voltage electric networks.
- Make sure that the installation environment meets the requirements of the device, such as weight support, sufficient room for cords, and power supply requirements.

Installation

Connection Schematic

The keyboard can be connected to various PTZ cameras, DVRs, and Matrix devices through the keyboard adaptor. All accessories are tested for maximum compatibility and best performance.

! For the first start, please ensure your keyboard parameters match those shown on the initial screen (ie. protocol, baud-rate, ID). Doing so will allow you to enter the OSD for further settings.



RS485 Cable-

The telemetric control of the device uses RS485 serial communication with half duplex transmission technology. The transmission distance can vary, depending on cable type, and baud rate. The following table shows maximum distances based on cable with 0,56mm (24AWG) twisted pair:

Baud Rate	Max. Distance
2400 bps	5577ft / 1700m
4800 bps	3609ft / 1100m
9600 bps	2297ft / 700m
19200 bps	1312ft / 400m

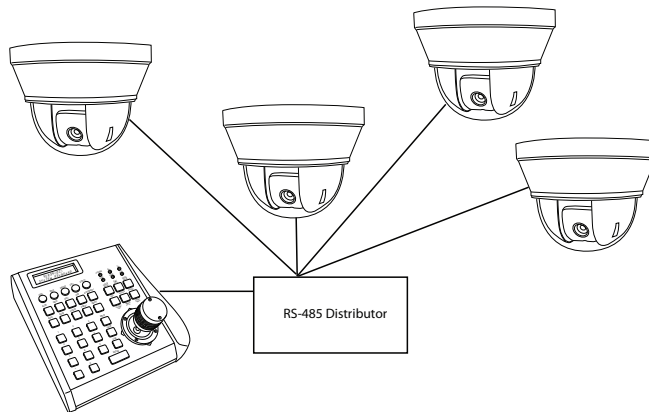
Due to environmental interfaces, such as electromagnetic and induction fields, or number of connected devices on the RS485 bus, or using thinner than 24AWG cable, the transmission range may be less.

Installation

Star-Connection-

The star-form connection is most commonly used. It enables the connection of different dome cameras with longer cable runs. It is recommended to use an RS485 distributor to ensure the telemetric data transmission.

The advantage of the star-connection is that every channel can work independently and can take a cable length up to 3,280 feet (1000 meters) (depending on cable quality). In cases where more dome cameras are installed, the star-connection can be extended with additional RS485 distributors.



Video Cable-

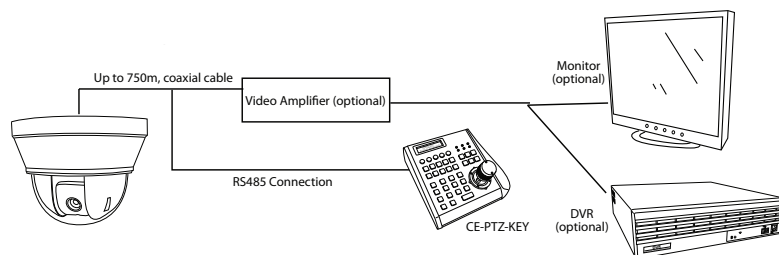
Coaxial cable with 75Ω impedance with copper conductor at center conductor, and shielded with 95% copper. The following table shows different cable type and its maximum length:

Cable Standard	Max. Distance (m / ft)
RG 59 / U	750 ft / 229m
RG 6 / U	1000 ft / 305m
RG 11 / U	1500 ft / 457m

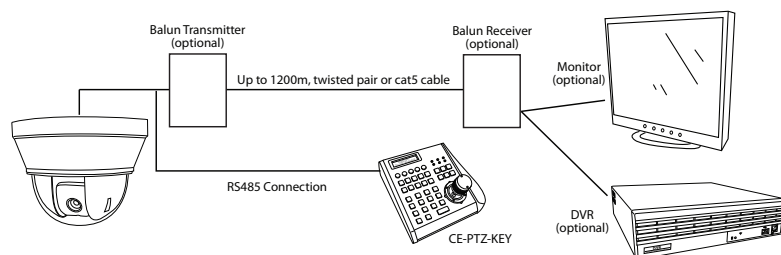
The values are for reference only. Depends on the cable quality and environmental conditions, the transmission distance might be less.

If the cable length is more than 1,312ft (400m), it is recommended to use optional accessories, such as a video amplifier or twisted-pair video converter, for boosting the video signal.

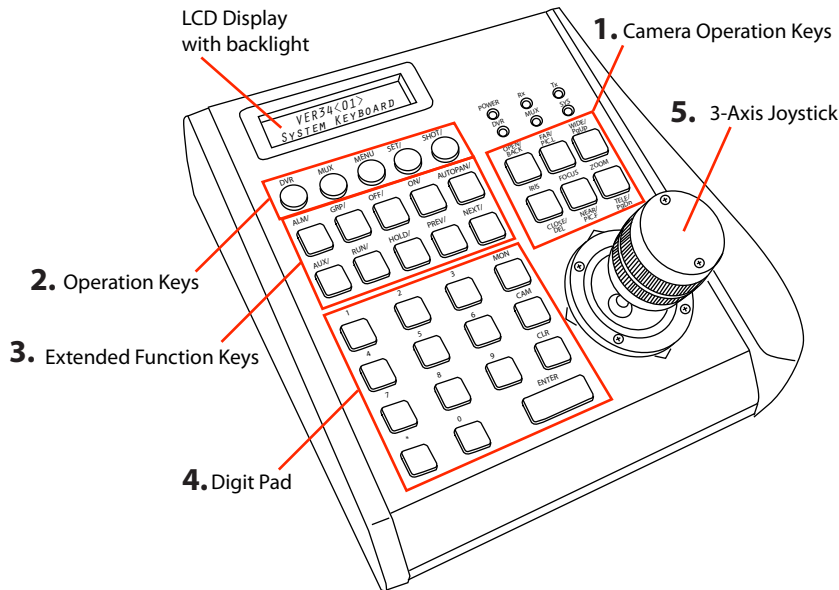
Extend connection distance with video amplifier



Extend connection distance with Twisted-Pair video converter



Key Description



Operation

Initial Setup-

VERxx<01>
System Keyboard

Startup Screen

After power up, the keyboard will start the initialization and self-test. The LCD display will show initial startup screen. Press MENU to start using the keyboard.

Main Operation Screen:

MON---	CAM-	ALM-
001	0001	0001

Selected Monitor Selected Camera Selected Alarm Input

To quickly use your connected PTZ camera, you may have to type in the corresponding camera ID (even if it already shows the correct ID). (ID#01 is default) Press **CAM1****ENTER**

CAM+1
001 0001 0001

User Mode & Admin Mode

The keyboard will enter automatically into USER MODE after power up, which allows performing PTZ and DVR control, and restrict user access to keyboard setup menu. Following message will show:

ADMIN AUTHORITY
001 0001 0001

Enter Administrator Mode:

PASSWORD :

PASSWORD :
9876543210

1. Press **ON** & **2** at the same time
2. Enter your password with the number keys and confirm with **ENTER** (default password: 9876543210)

Entering into Admin. mode will allow you to set up device parameters as described in the next steps.

3. To exit Admin. mode, the device must be powered down by unplugging the RJ45 connector from the back of the keyboard.

Keyboard Setup:

After entering Admin. mode, press **MENU**

To cycle through selections press UP or DOWN to cycle through settings.

To cycle through options, turn the joystick (tele zoom or wide zoom) to change setting.

Apply a selection by pressing **ENTER**

Settings

SET MUX PROTOCOL: Setup the Protocol for Multiplexer. Supporting: ROBOT (default), VC, SONY, BOSCH, and PELCO.

SET MUX PROTOCOL
>ROBOT

SET MTX BAUD RATE: Setup the Baud Rate for Matrix. Supported: 1200bps, 2400bps, 4800bps, 9600bps (default), and 19200bps. Press ENTER to save or CLR to exit.

SET MTX BAUD RAT
>9600bps

DVR

SET DVR PROTOCOL: Setup the DVR Protocol. Supported: NVIDO, VC, DSCP, HIK, TUMIN, MITSU, DH, and INTLX.

SET DVR :
>SET_PROTOCOL>

ALL: Protocol setting for all DVR ID
01: individual setting for DVR ID 01

ALL :>NVIDO
01 :>NVIDO

SET DVR BAUD RATE: Setup the Baud Rate for DVR. Supported: 1200bps, 2400bps, 4800bps, 9600bps, and 19200bps. Press ENTER to save or CLR to exit.

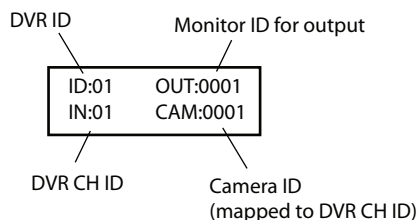
SET DVR :
>SET_BAUDRATE>

ALL: Protocol setting for all DVR ID
01: individual setting for DVR ID 01

ALL :>9600bps
01 :>9600bps

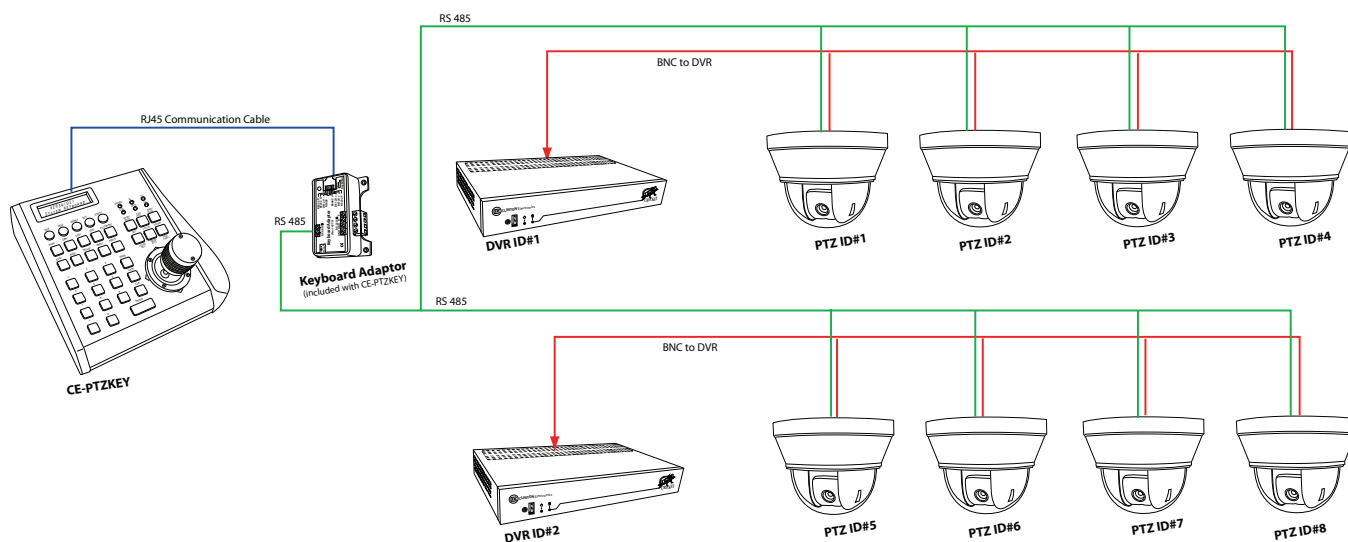
SET DVR CHANNEL: When multiple DVRs are used, the keyboard can map the DVR-channel input to certain PTZ IDs. Once the DVR's channel is changed on the keyboard, the PTZ corresponding to this DVR will be selected automatically.

SET DVR :
>SET_CHANNEL>



Example:

In DVR mode: If DVR2 is selected in the schematic below, and PTZ input is changed to 2, the keyboard will automatically recognize the 2nd camera on the selected DVR (in this example PTZ ID#6 would be selected as it is the 2nd PTZ camera in sequence on this particular DVR).



CAM

SET CAM PROTOCOL: Setup the Protocol for CAM. Each camera can be programmed with a different protocol. After setting, press ENTER to save, or CLR to exit the setting.

SET CAM PROTOCOL
>SET_PROTOCOL>

ALL : >B02
01 : >B02

ALL: Protocol setting for all CAMERA ID
01: individual setting for CAMERA ID 01

SET CAM BAUDRATE: Setup the Baud Rate for CAM. Supported settings: 1200bps, 2400bps, 4800bps, 9600bps, and 19200bps. After setting, press ENTER to save or CLR to exit the setting.

SET CAM PROTOCOL
>SET_BAUDRATE>

ALL : >9600bps
01 : >9600bps

ALL: Protocol setting for all CAMERA ID
01: individual setting for CAMERA ID 01

Keyboard

SET KEY ID: Setup the ID of the controller from 01 to 63. Input the number by using the digit keys. After setting, press ENTER to save or CLR to exit the setting.

SET KEY ID
>01<00 -->63>

SET KEY LEVEL: Setup the control levels of the controller from 0 to 15. Input the number by using the digit keys. After setting, press ENTER to save or CLR to exit the setting.

SET KEY LEVEL
>01<00 -->15>

Monitor

SET MON RANGE: Setup the range of monitors from 0000 to 0239. Input the number by using the digit keys. After setting, press ENTER to save or CLR to exit the setting.

SET MON RANGE
>0000 -->0239

Camera range

SET CAM RANGE: Setup the range of intelligent dome cameras from 0000 to 9999. Input the number by using the digit keys. After setting, press ENTER to save or CLR to exit the setting.

SET CAM RANGE
>0000 -->9999

Alarm Range

SET ALM RANGE: Setup the range of alarm positions from 0000 to 9999. Input the number by using the digit keys. After setting, press ENTER to save or CLR to exit the setting.

SET ALM RANGE
>0000 -->9999

Reset Default

RESET DEFAULT_I?: Reset the keyboard to factory defaults by entering the password (default password: 9876543210). Press ENTER to activate the reset or CLR to exit. *NOTE: Pressing ENTER will clear all settings that have been saved on the device. . This process can take up to 30 seconds until the controller is available again. Note that if the baud-rate has been changed due to the reset, it is necessary to restart the keyboard by removing the RJ45 cable from the back of the unit.

RESET DEFAULT_I?
>*****

PASSWORD :
9876543210

RESET DEFAULT_I?
PLEASE WAIT ...

Working with PTZ

Start PTZ mode

By default, the keyboard usually starts in PTZ mode (display shown below). You can also access the PTZ menu by pressing the **MENU** button.

MON---	CAM-	ALM-
001	0001	0001

Select / Change current camera-

By default, the keyboard usually starts in PTZ mode (display shown below). You can also access the PTZ menu by pressing the **MENU** button.

CAM+#
001 0001 0001

Change selected camera

Preset Function-

Add Preset: **SET** + # + **ENTER**. #=1 to 255*

Call a Preset: **SHOT** + # + **ENTER**. #=1 to 255*

Delete a Preset: **CLR** + # + **ENTER**. #=1 to 255*

*The maximum preset number depends on the PTZ device. Please refer to the user's manual for further information.

SET+#
001 0001 0001

SHOT+#
001 0001 0001

Tour - Sequence:

A sequence can store up to 24 preset points with individual dwell times and speeds. You can store a sequence by using this function. (Only available in B01 / B02 Protocol).

Press **GRP** + # + **SET**. #=1 to 4

After entering sequence programming mode, the display shows the preset input and settings for speed and time.

Seq	Pos	Spd	Ti
001	000	000	000

Seq: Sequence number

Pos: Preset number

Spd: Move speed between 1-8

Ti: Stop time between 0-60 sec.

Press **ENTER** to confirm and save the setting.

Repeat the preset position input with speed and time settings, and confirm with **ENTER**. After exiting the programming mode, the settings will be saved to the dome's memory.

Working with DVR

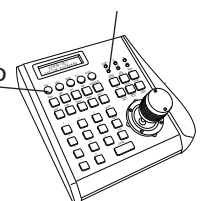
Enter DVR mode

To control DVR, press the DVR-Button and enter the DVR-mode. The LED with "DVR" tag indicates the current status, and the LCD shows the current selected DVR ID:

DVR_ID:01

LED for DVR mode

Press DVR button to enter DVR mode



If you have more than one DVR installed and configured, you can switch to other ID by pressing **NEXT** + # + **ENTER**. For returning to PTZ mode, press **MENU**.

Depending on the DVR Model, the function keys may be different. Please refer to "Function key for NVIDO DVR" section for key assignment.

Working with DVR

Virtual PTZ control in DVR mode

In this mode, you can control the DVR and PTZ simultaneously: by selecting the input on the DVR, the PTZ ID assigned to this channel will be automatically selected and ready for PTZ control (DVR and PTZ ID assignment need to be set up prior to operation. Please refer to the former chapter "Keyboard Setup" for details.)

Press **DVR** key (in DVR mode) to enter virtual PTZ

DVR_ID:01	IN:01
PTZ	Cam:001

DVR_ID: 01:.....ID of the DVR
 IN: 01:.....Input of the DVR
 PTZ:.....Indicates the virtual PTZ mode
 Cam:0001:.....Camera or PTZ ID

Switch the camera input channel: Press **#* + ENTER**

For returning to the DVR mode, press the **DVR** key again.

Change the PTZ assignment in DVR mode

If you are already in Admin-mode, you can change the assignment of the PTZ ID to the DVR input directly by pressing the **NEXT** key.

Set DVR ID: 01< 00 99>

Select the DVR you need to control or modify

DVR ID	Output to Matrix
ID:01	OUT:0001
IN:01	CAM:001
DVR Input Channel	Assign to Camera ID

Press **NEXT** button again to change the assignment for the DVR input and Camera ID (admin. access required)

Function	Button
Enter DVR Menu	Set
Enter Key	Enter
4 Cut	Hold
9 Cut	Prev
16 Cut	IRIS close
Zoom	Wide/Tele Key
Slow Playback	Aux
Start Playback	ALM
Playback	ON
Key Pause	Autopan
Key Stop	IRIS Open
Key Rewind	GRP
Key Forward	OFF
Keyboard Information	Run
Power ON/OFF DVR	*
Ch. Display 1# (#=0-9)	1++ENTER
Ch. Display 0# (#=0-9)	0++ENTER
Key Plus	3D Joystick Right
Key Minus	3D Joystick Left
Key Audio	Focus Near
Key Search	Focus Far
Key Next	DVR ID Setting
Clear Keyboard Screen	CLR
Keylock	SHOT
Key Left	Joystick Left
Key Right	Joystick Right
Key Up	Joystick Up
Key Down	Joystick Down

Note:

-Setup the communication baud-rate, and ID in the DVR before connection.

-To prevent signal interference, it is strongly recommended to use an RS-485 distributor for connection.

Multiplexer

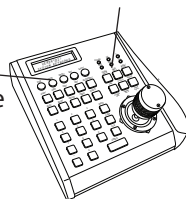
Control

Press the MUX button to enter the Multiplexer mode.

MUX_ID:01

Press MUX button to
enter Multiplexer mode

LED for MUX mode



PTZ with Multiplexer in MUX mode

In MUX mode, press the MUX button again to enter virtual PTZ mode. You can control the PTZ by switching the input channel (the camera ID will also be switched accordingly).

MUX_ID:01	IN:01
PTZ	Cam:001

MUX_ID: 01:.....ID of the Multiplexer
IN: 01Input 1 of the Multiplexer
PTZ.....Indicates the control of PTZ
Cam:0001Camera ID

Setup the virtual PTZ control in MUX mode

MUX_ID:01

In MUX mode, press AUTOPAN to change the selected Multiplexer.

Set MUX ID:
01< 00 66>

Select the MUX ID for setup (if more than one are installed), and choose the desired device.

MUX ID	Monitor ID for Output
ID:01	OUT:0001
IN:01	CAM:001

MUX Input Channel Camera ID

Press AUTOPAN again to setup the PTZ. (admin. access required). Press ENTER after every assignment to save the changes. Failure to do so may result in the loss of the configured settings.

Basic Operation-

Initial Screen and Self-Testing

After powered on, the dome starts the self-testing by slowly rotating and panning. After the self-test completes the initial information will be displayed on the screen.

S/N:XXXXXXXXXXXXXX	← S/N of the PTZ
CLINTON V2.42	← Software Version
PROTOCOL: CLINTON	← Protocol
DOME ADDRESS: 001	← Dome ID
COMM 9600, N, 8, 1	← Communication Parameter

The initial information will remain on the screen until a button is pressed, joystick is moved, or until "POWER UP ACTION" initiates. See next page on how to show Initial Info within system settings menu, and how to define Power up action.

Open the On-Screen-Display (OSD) Menu

This dome supports OSD menu for simple configuration of device settings. To enter the OSD menu, press [shot] 95 [enter] on the keyboard. Or call the sequence [shot] 9 [enter] twice within 3 seconds. If you encounter troubles, make sure your keyboard settings are correct for the camera you are trying to control, such as the CAM number on your keyboard matching the number assigned to the desired PTZ.

Navigation from keyboard

[IRIS OPEN] Enters the sub menu or confirms a setting

[IRIS CLOSE] Exits the selected menu item or cancels the current setting.

[UP], [DOWN] Move between menu lines, or adjust the selected value.

[RIGHT] Enter a highlighted menu item. (same as [IRIS OPEN])

[LEFT] Moves left or exit the menu item.

System Settings

MAIN MENU

▶ SYSTEM SETTING -->
CAMERA SETTING -->
FUNCTION SETTING -->
WINDOW BLANKING -->
EXIT

SYSTEM SETTING

▶ EDIT DOME LABEL -->
INITIAL INFO -->
DISPLAY SETUP -->
MOTION -->
CLEAR -->
PASSWORD SETUP -->
CLOCK SETTING -->
COMM SETTING -->
BACK
EXIT

EDIT DOME LABEL

▶ LABEL: DOME 1
BACK
EXIT

EDIT DOME LABEL

For multiple domes in a single installation, it may be helpful to assign a name to every dome with location info. Label may contain alphanumeric values up to 16 characters long. Ensure Dome Label is set to "ON"; see Display Setup on pg.12.

- Enter OSD and select SYSTEM SETTING
- Select EDIT DOME LABEL and enter the sub menu
- Select LABEL and enter with [RIGHT] or [IRIS OPEN]
- The input character starts to flash, use [UP] or [DOWN] to select the desired character and [RIGHT] for next input.
- Available characters appear in the following order: "0" to "9", "A" to "Z", ":", " ", "<", ">", "-", {SPACE}
- Use [LEFT] to move to previous character if needed.
- If you need to delete a character, use the {SPACE} character.
- When finished, press [IRIS OPEN] , or use [RIGHT] to move to last character and then navigate to BACK or EXIT to exit the editing mode.
- Select "BACK" to exit to "SYSTEM SETTING" menu.

INITIAL INFO	

S/N: XXXXXXXXXXXXXXXX	
CLINTON V2.42	
PROTOCOL: CLINTON	
DOME ADDRESS: 001	
COMM 9600, N, 8, 1	
BACK	
EXIT	

INITIAL INFO

Shows the serial number, current firmware version and other settings.

[BACK]: Move to previous screen

[EXIT]: Exit the OSD

DISPLAY SETUP	

DOME LABEL	OFF
PRESET LABEL	OFF
ZOOM LABEL	OFF
ZONE LABEL	OFF
DIRECTION LABEL	OFF
TEMPERATURE LABEL	OFF
TIME LABEL	OFF
DATE LABEL	OFF
BACK	
EXIT	

DISPLAY SETUP

Customize the labels shown on the OSD

[DOME LABEL]: Shows dome label name on OSD

[PRESET LABEL]: Shows the current preset label on OSD (see pg.15; "Preset")

[ZOOM LABEL]: Shows magnification setting on OSD

[ZONE LABEL]: Shows current zone (must first be set up: see pg.17; "Zones")

[DIRECTION LABEL]: Shows current direction on OSD: Displayed as (Pan: 0°-359°, Tilt: 0°-90°)

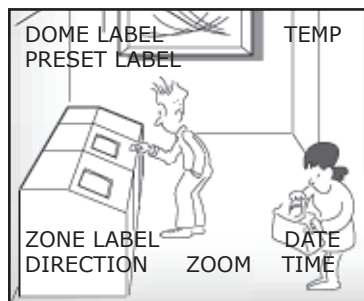
[TEMPERATURE LABEL]: Shows current temperature inside dome on OSD

[TIME LABEL]: Shows current time on OSD. Displayed as Year/Month/Day.

[DATE LABEL]: Shows current date on OSD. Displayed as 24 hour clock.

[BACK]: Move to previous screen (doing so will save your changes to display setup)

[EXIT]: Exit the OSD (doing so will save your changes to display setup)



MOTION	

AUTO FLIP	OFF
PROPORTION PAN	OFF
PARK TIME	000
PARK ACTION	NONE
POWER UP ACTION	NONE
FAN ENABLED	113
BACK	
EXIT	

MOTION

The motion control includes the setting for Park Time action and other features.

[AUTO FLIP]: Disabling this function will limit the tilt range to 90 degrees only

[PROPORTIONAL PAN]: Pan speed adjusts accordingly to the zoom ratio. The more the operator zooms in, the slower the pan speed. The Park Time speed will be adjusted accordingly.

[PARK TIME]: Sets the idle time in minutes, until [PARK ACTION] is activated.

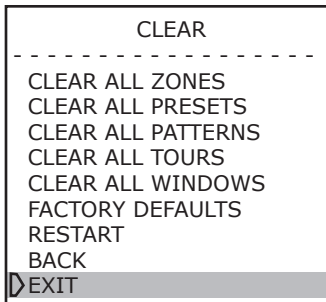
[PARK ACTION]: You can select an action that will be started after certain idle time, such as preset, tour or pattern. Select NONE to disable the function.

[POWER UP ACTION]: Instructs the dome to start a predefined action when system boots up and completes the self test. This could be helpful to restore the observation after power loss.

[FAN ENABLED]: Sets the temperature limit for the internal cooling fan to start.

[BACK]: Move to previous screen (doing so will save your changes to motion)

[EXIT]: Exit the OSD (doing so will save your changes to motion)



CLEAR

The CLEAR function resets the stored settings and controls back to factory default.

***NOTE: Pressing Right with the joystick will activate the following functions. There are no sub menus to these functions. You cannot undo the action.**

[CLEAR ALL ZONES]: Clear set zones

[CLEAR ALL PRESETS]: Clear all stored preset positions

[CLEAR ALL PATTERNS]: Clear all stored pattern tours

[CLEAR ALL TOURS]: Clear all tours

[CLEAR ALL WINDOWS]: Clear all privacy masking settings

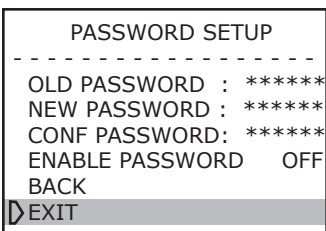
**[FACTORY DEFAULTS]:* Reset all settings and return to factory settings

[RESTART]: Restarts the system, used after resetting factory defaults

[BACK]: Move to previous screen

[EXIT]: Exit the OSD

***NOTE: After using the FACTORY DEFAULTS option, all system settings and stored information, such as presets, tour, or patterns will be permanently erased. Please make sure this is your intention before selecting this option.**



PASSWORD SETUP

In password-settings menu, you can change the password, and enable/disable the password protection function. The password function can prevent unauthorized access to the OSD and changes to the settings. It consists of a 6 digit number from 0-9, and can be disabled if so desired.

1. To modify the password, you must input the old password. The default password is 000000.
2. Enter a new password.
3. Enter the new password again in [CONF PASSWORD] to confirm.

To set the password, move left/right to select a digit, and up/down to change the number. When finished, press [IRIS OPEN] on the keyboard, or move the cursor right to save the settings.

A "SUCCESS" message will appear on screen when changes are saved, or your submission is correct. An "ERROR" message will appear on screen when an incorrect password is entered.

CLOCK SETTING	
TIME	13:44:30
DATE	10/03/31
BACK	
EXIT	

CLOCK SETTING

The system is equipped with a RTC (Real-Time Clock) and can be used to display the date/time information on the screen, or operated via schedule (see pg.18; "Time Running"). In order to use this function correctly, you must first set up the date and time.

[TIME]: Change the time setting. Displayed as 24hr clock.

[DATE]: Change the date setting. Displayed as Year/Month/Day.

[BACK]: Move to previous screen (doing so will save your changes to clock setting)

[EXIT]: Exit the OSD (doing so will save your changes to clock setting)

COMM SETTING	
S/N: XXXXXXXXXXXXXXXX	
CONF:XXXXXXXXXXXXXXXX	
SITE ID	001
COMM SPEED	9600bps
PROTOCOL	CLINTON
BACK	
EXIT	

COMM SETTING

To edit settings for Site ID, baudrate, and protocol, you must first unlock these settings by entering the serial number again into the [CONF] field. Protocol setting can be detected automatically.

Camera Settings

In this section, the camera and image related functions can be set.

MAIN MENU	
SYSTEM SETTING -->	
CAMERA SETTING -->	
FUNCTION SETTING -->	
WINDOW BLANKING -->	
EXIT	

[ZOOM SPEED]: Zoom-in speed

[DIGITAL ZOOM]: Besides the optical zoom, this PTZ is equipped with digital image enlargement, known as digital zoom. When off, only the optical zoom will be available.

[BLC MODE]: Backlight compensation mode. Use this option when the observed object has a strong backlight such as sunlight, or other light source.

[SLOW SHUTTER]: The slow shutter allows a higher sensitivity by exposing the image sensor a longer period of time, useful when observing objects do not have much movement.

[ADVANCED SETTING]: Enters the advanced settings sub-menu for the camera.

[AE MODE]: Activate auto-exposure mode for various exposure methods for different environments:

- SHUTTER MODE: In shutter mode, the camera changes the shutter speed to regulate light.
- IRIS MODE: Regulate the iris-opening to control the exposure.
- BRIGHTNESS: Regulate the exposure by changing the brightness control
- AUTO: Automatically regulates the exposure modes.

[WB MODE]: The camera supports Auto, Manual, ATW, OPW, Outdoor, and Indoor modes of White Balance, which chooses the correct color of the image.

***NOTE: R gain and B gain are only editable in Manual mode.**

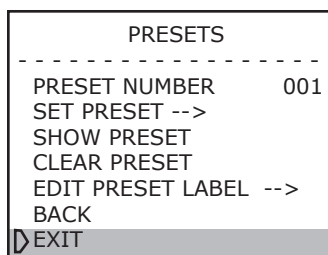
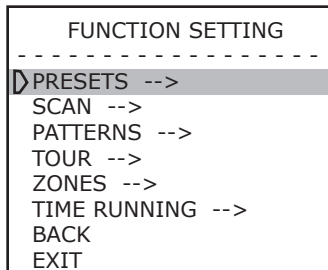
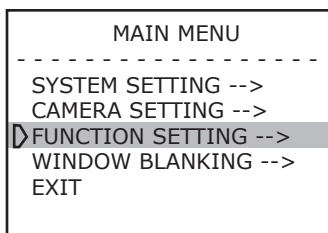
- R GAIN: Regulates the red elements in the image color
- B GAIN: Regulates the blue elements in the image color

CAMERA SETTING	
ZOOM SPEED	HIGH
DIGITAL ZOOM	ON
BLC MODE	OFF
SLOW SHUTTER	OFF
ADVANCE SETTING -->	
BACK	
EXIT	

CAMERA SETTING	
ZOOM SPEED	HIGH
DIGITAL ZOOM	ON
BLC MODE	OFF
SLOW SHUTTER	OFF
ADVANCE SETTING -->	
BACK	
EXIT	

ADVANCE SETTING	
AE MODE	AUTO
SHUTTER	N/A
IRIS	N/A
BRIGHT	N/A
WB MODE	AUTO
R GAIN	N/A
B GAIN	N/A
BACK	
EXIT	

Function Settings



In the function settings, user can setup the automated PTZ functions, such as preset position, tours, scan, etc. These functions may become very useful for your surveillance application.

PRESET

Preset point is a position of PTZ which can be memorized by the device and be recalled immediately, if needed. Up to 128 preset points are supported. Quickly recall a preset using the keyboard by pressing "SHOT", the desired preset #, then "ENTER". ***NOTE: Assigning #95 to a preset will result in an error, as this number is used to call up the System Settings OSD Menu.**

[PRESET NUMBER]: Selected preset position

[SET PRESET]: Setup the preset position. Enter this menu, move the PTZ to desired position, and press [IRIS OPEN] to store, or [IRIS CLOSE] to discard.

[SHOW PRESET]: This will show the current preset defined in [PRESET NUMBER]

[CLEAR PRESET]: This will delete the current preset defined in [PRESET NUMBER]

[EDIT PRESET LABEL]: Assign a name to the current preset position defined in [PRESET NUMBER]. This label will show on the screen when called up. "Preset Label" must be set to "ON" for label to appear on-screen. See pg 12; "Display Setup".

[BACK]: Move to previous screen (doing so will save your changes to presets)

[EXIT]: Exit the OSD (doing so will save your changes to presets)

SCAN	

SCAN NUMBER	01
SCAN SPEED	50
SET LEFT LIMIT -->	
SET RIGHT LIMIT -->	
CLEAR SCAN	
RUN SCAN	
EDIT SCAN LABEL -->	
BACK	
EXIT	

SCAN

A Scan-Tour is an automated Pan movement between 2 defined positions with speed setting. The scan will move from the defined Left limit, to the defined Right limit in a straight path, and back again. If you wish to have your PTZ follow a more advanced path, use one of the next two selections: "PATTERN", or "TOUR".

[SCAN NUMBER]: Current scan number

[SCAN SPEED]: Define the scan speed

[SET LEFT LIMIT]: Define the left point of the scan tour. To define, enter the selection and move the PTZ to desired position. Use [IRIS OPEN] to store or [IRIS CLOSE] to discard.

[SET RIGHT LIMIT]: Define the right point of the scan tour. To define, enter the selection and move the PTZ to desired position. Use [IRIS OPEN] to store or [IRIS CLOSE] to discard.

[RUN SCAN]: This will run the current scan defined in [SCAN NUMBER]

[CLEAR SCAN]: This will erase the current scan defined in [SCAN NUMBER]

[EDIT SCAN LABEL]: Assign a name to the current scan defined in [SCAN NUMBER]

[BACK]: Move to previous screen (doing so will save your changes to scan)

[EXIT]: Exit the OSD (doing so will save your changes to scan)

PATTERNS	

PATTERN NUMBER	001
PROGRAM PATTERN -->	
RUN PATTERN	
CLEAR PATTERN	
EDIT PATTERN LABEL -->	
BACK	
EXIT	

PATTERN

A pattern-tour is a custom tour defined by recording the user's actions up to 180 seconds per tour. This camera can support up to 4 pattern tours.

[PATTERN NUMBER]: Current pattern number

[PROGRAM PATTERN]: Record the pattern tour. Enter this menu to start the tour recording, when finished, press [IRIS OPEN] to store.

[RUN PATTERN]: This will run the current pattern defined in [PATTERN NUMBER]

[CLEAR PATTERN]: This will erase the current pattern defined in [PATTERN NUMBER]

[EDIT PATTERN LABEL]: Assign a name to the current pattern defined in [PATTERN NUMBER]

[BACK]: Move to previous screen (doing so will save your changes to pattern)

[EXIT]: Exit the OSD (doing so will save your changes to pattern)

TOUR		

TOUR NUMBER		001
EDIT TOUR	-->	
RUN TOUR		
CLEAR TOUR		
BACK		
EXIT		

TOUR

A Tour is an automated cruising through selected preset positions with individual speed settings and dwell times. This PTZ supports up to 4 tours with 24 positions each. ***NOTE: Before a tour can be properly set up, you must first define your preset points you wish to include in the tour (see page 16 "Presets").**

A tour sequence will repeat until interrupted by a movement of the joystick after it reaches a preset point, or until another command is entered (ie. [SHOT]95[ENTER] to enter menu).

[TOUR NUMBER]: Current tour number

[EDIT TOUR]: Edit the current selected tour as defined in [TOUR NUMBER]

Tour Editing:

PO: The preset position being included in the tour. If there is no preset position stored, please exit, and define presets before continuing.

S: The speed in which the PTZ moves to this preset. The value is between 1 (slow)-8 (fast).

TM: The dwell time before the PTZ moves to the next point. Given in seconds. (Up to 60 sec.)

EDIT TOUR		
PO-S-TM	PO-S-TM	PO-S-TM
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
00-0-00	00-0-00	00-0-00
BACK		
EXIT		

[RUN TOUR]: This will run the current tour defined in [TOUR NUMBER]

[CLEAR TOUR]: This will erase the current tour defined in [TOUR NUMBER]

[BACK]: Move to previous screen (doing so will save your changes to tour)

[EXIT]: Exit the OSD (doing so will save your changes to tour)

ZONES		

ZONE NUMBER		001
SET LEFT LIMIT	-->	
SET RIGHT LIMIT	-->	
CLEAR ZONE		
EDIT ZONE LABEL	-->	
BACK		
EXIT		

ZONES

The zone function allows user to define a perimeter with a name tag. The perimeter is defined by setting a Left, and Right end of a desired area. When the camera enters this area, the name will be displayed on the screen, which provides better orientation in surveillance applications. Up to 8 zones are supported. Make sure "Zone Label" is set to "ON" in Display Setup; see pg12.

[ZONE NUMBER]: Current zone number

[SET LEFT LIMIT]: Define the left point of the zone

[SET RIGHT LIMIT]: Define the right point of the zone

[CLEAR ZONE]: This will erase the current zone defined in [ZONE NUMBER]

[EDIT ZONE LABEL]: Assign a name to the current zone defined in [ZONE NUMBER]

[BACK]: Move to previous screen (doing so will save your changes to zones)

[EXIT]: Exit the OSD (doing so will save your changes to zones)

TIME RUNNING	

TIME CHANNEL	1
START TIME	00:00
END TIME	00:00
RUNNING	NONE
BACK	
EXIT	

TIME RUNNING

The time running function is a scheduled start for predefined action, such as preset tour, scan tour, etc. This PTZ supports up to 4 schedules. Before setting this function, please make sure that the system time has been set correctly (see clock setting; pg14)

[TIME CHANNEL]: Current schedule number

[START TIME]: Start time of selected schedule as defined in [TIME CHANNEL]

[END TIME]: End time of selected schedule as defined in [TIME CHANNEL]

[RUNNING]: Define the action to be started. Select None to deactivate the function.

[BACK]: Move to previous screen (doing so will save your changes to time running)

[EXIT]: Exit the OSD (doing so will save your changes to time running)

Window Blanking

WINDOW BLANKING	

WINDOW NUMBER	01
EDIT WINDOW -->	
ENABLE WINDOW	ON
CLEAR WINDOW	
BACK	
EXIT	

The Window Blanking function is used to protect the privacy in the observed area, as this may be required by law for certain applications. It is also known as "Privacy Masking", which covers the selected area with a blank window. This PTZ supports up to 25 masking windows.

[WINDOW NUMBER]: Current window number

[EDIT WINDOW]: Edit the current masking window as defined in [WINDOW NUMBER]

1. Center the area you wish to mask on the screen by using the joystick.
2. Press iris open to enter window blanking edit.
3. Use the [UP], and [DOWN] movements to increase or decrease the height of the window mask.
4. Use [LEFT], or [RIGHT] to decrease or increase the width of the window mask.
5. Press [IRIS OPEN] to save the mask.

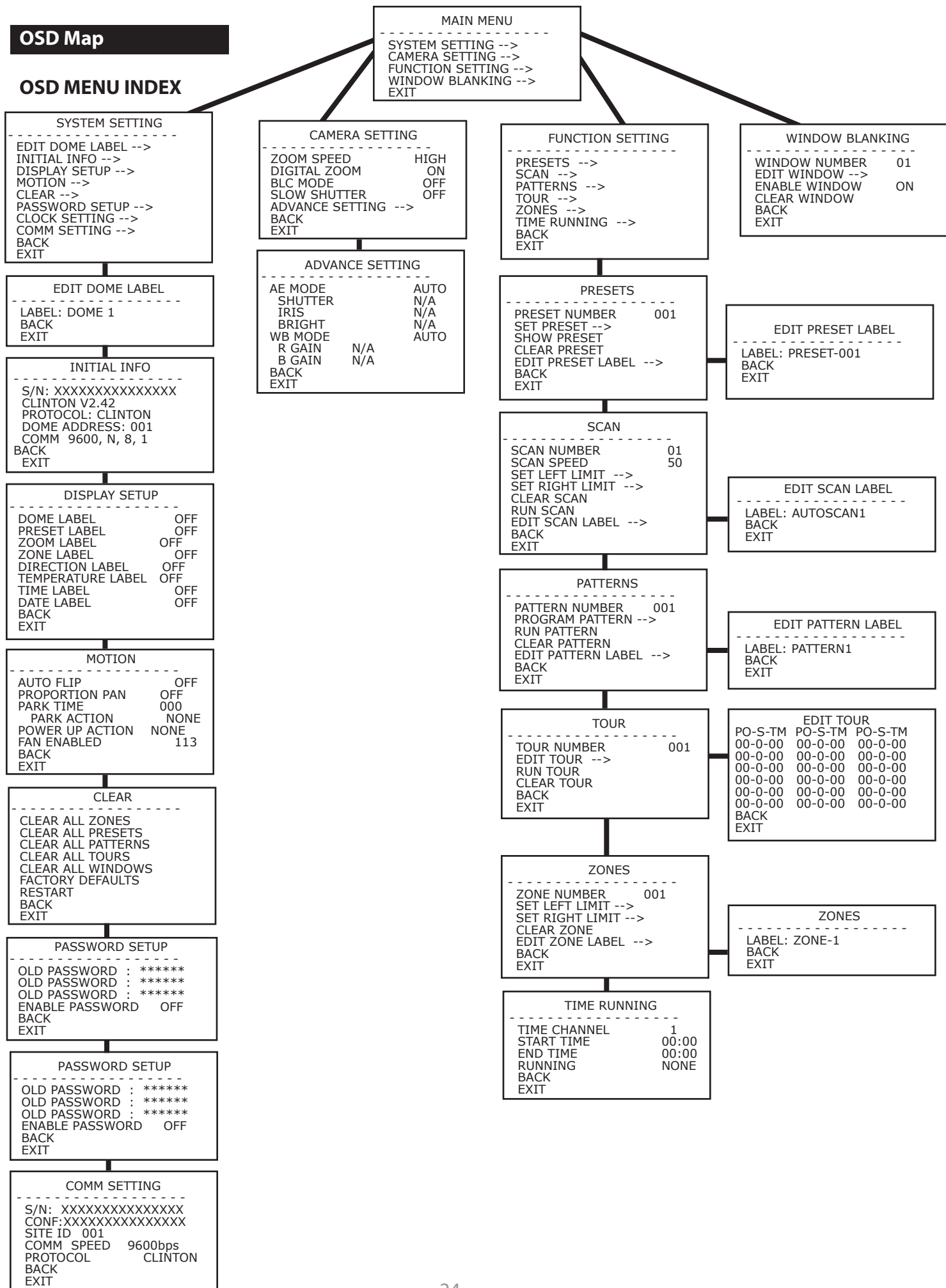
[CLEAR WINDOW]: Clear the current masking window as defined in [WINDOW NUMBER]

[BACK]: Move to previous screen (doing so will save your changes to time window blanking)

[EXIT]: Exit the OSD (doing so will save your changes to window blanking)

OSD Map

OSD MENU INDEX



Specifications

Model	CE-PTZ10X
Signal Format	PAL / NTSC
Scanning	Progressive
Image Sensor	1/4 inch Ex-View CCD
H. Resolution	540 TVL
Viewing Angle	46.0 ° (Wide end) 4.6 ° (Tele end)
Zoom	10 x Optical / 12 x Digital
Min. Illumination	1.0Lx (typical) - (F1.8, 50 IRE)
Focus	Auto / Manual
White Balance	Auto / Manual (ATW, Indoor, Outdoor, One Push WB, Manual WB)
Shutter Speed	1 to 1/10,000 Sec. 22 steps
Iris Control	Auto / Manual / Auto Slow Shutter
Gain Control	Auto / Manual (-3 to 28 dB, 2 dB steps)
Video Output	VBS: 1.0Vp-p (Sync Negative), Y / C Output
S/N Ratio	More than 50 dB
Pan Speed	0.4 ° - 300 ° per Sec.
Tilt Speed	0.4 ° - 150 ° per Sec.
Pan Range	360 °
Tilt Range	0 - 90 °
Communication	RS-485, multiple-protocol, coax
Preset Positions	128 Presets
Auto Pan	Yes, between 2 presets
Tour / Sequence	4 progr. Tours with max 32 presets / 4 Patterns up to 180s
Privacy Mask	24 Position / 8 Position per Screen
Operating Temp.	Outdoor: -40 °F to 140°F / Indoor: 14°F to 122°F
Power	DC 12V / AC 24V

If you have trouble operating your camera and the guidelines in this manual do not enable you to solve the problem, contact Clinton Electronics Technical Support at 1-800-549-6393 or 815-633-1444.



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