clintonelectronics E-Series PVM Manual

For landscape model PVMs with CE-PVM2MPF camera



Based on camera firmware version: 90100.1.0263.100

Clinton reserves the right, without notification, to make changes in product design & specification.

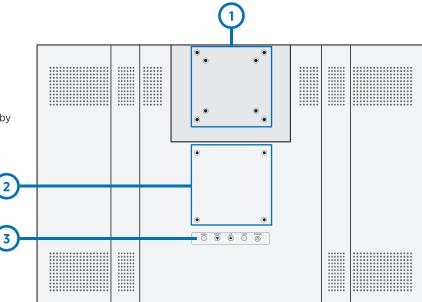
Hardware Overview: PVM

BACK

1. Recessed VESA Mounting Holes (hole pattern varies by model)

2. External VESA Mounting Holes (hole pattern varies by model)

3. LCD Controls (not available on 10" models) *see info on next page

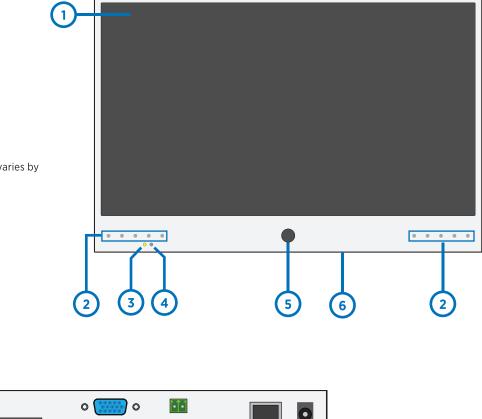


FRONT

1. LCD Screen

- 2. RGB LEDs
- 3. LED
- 4. IR Remote Control Sensor
- 5. Camera

6. Micro SD Card Access Cover (location varies by model)





USB Port: For mouse control during F/W update, limited user function

SD Card Slot: Insert SD Card to display JPG/PNG image (not available on all models)

VGA Input: Used for F/W update only, not a video input

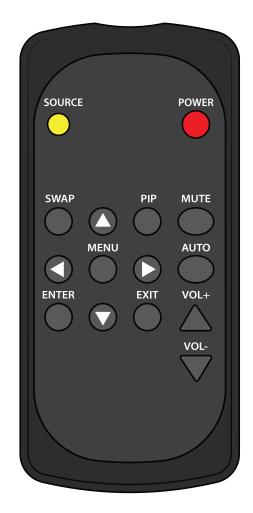
Alarm I/O: Connect to Alarm Output (+/-) contact from external device to trigger image mode switching

Network Port: *Larger PVMs do not support PoE

DC24V Power Input: Plug style varies by model

Hardware Overview: Remote Control

Remote Controls source: No function
POWER: Turns LCD Screen ON/OFF (does not turn off camera)
SWAP: No function
PIP: No function
MUTE: Turns Audio ON/OFF
MENU: Push once to display OSD Menu
SELECTION ARROWS: Navigate through OSD menu
AUTO: No function
ENTER: Select a highlighted menu item to open submenu
EXIT: When in a selection, press to exit out from that menu item
VOL+ / VOL - : Increase/Decrease audio from SD Player





LCD Controls (located on back of PVM)

POWER: Turns LCD Screen ON/OFF (does not turn off camera)

AUTO: Exit or go back to previous menu screen

UP: Navigate through menu options Up

DOWN: Navigate through menu options Down

MENU: Push once to display OSD Menu, press on a highlighted item to open submenu

Basic Setup Guide

----- A 24VDC POWER SUPPLY REQUIRED, SOLD SEPARATELY A-----

Remove Cover Plate and Install PVM:

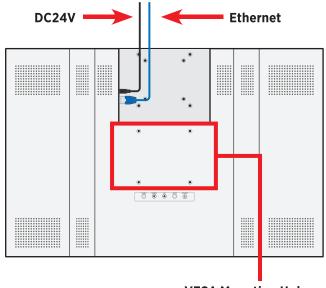
Remove the cover plate on the back-side of the PVM and set aside. Install the PVM to desired VESA mounting bracket following instructions supplied with the mounting bracket. **Mounting Bracket Not Included, Sold Separately.*

Connect DC24V Power:

Connect DC24V power to PVM (using the supplied pigtail adapter cable). It is recommended that the power supply not be plugged into the main power source during this step **Power Supply Not Included, Sold Separately.*

Connect Network Cable:

Connect an ethernet cable to the network port on the PVM. To view the IP camera on the network follow the setup instructions found later in this manual. **This device does not support WiFi.*



VESA Mounting Holes

Turn Power ON:

After making the power and network connections, plug the power supply into a wall outlet. Connecting the DC24V pigtail into the PVM while plugged into the main power source can cause sparking.

5) Came

3

Camera Boot-Up:

Colored bars will display on the screen while the IP camera is booting up. These bars will be on the screen for approximately 30-40 seconds. The live camera image will display on the screen after the camera has successfully booted up.

- *Most E-Series PVMs are not PoE devices!* Power for these units must come from 24 Volt DC power source. Some smaller models may support PoE. Check actual power requirements prior to installation.
- For devices that do support PoE power: use either PoE or DC24V, do not use both power sources.
- This device does not support WiFi. Network connection must be made via Cat5e/Cat6 network cable.
- Face Detection boxes are OFF by default. This is a camera-level setting that must be enabled after logging into the camera.

OSD / On Screen Display

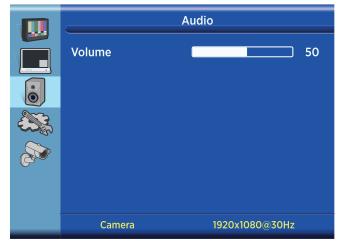
Clinton PVMs come preset with settings that are optimized for most applications. Adjust the picture as needed.

To access the OSD Menu, press the **MENU** button on the remote or using the controls on the backside of the PVM.





VIDEO



System Settings Language English **OSD** Timer 30 Sec. **OSD Transparency** 0 Key Lock No **Message Control** LED Recall No Camera 1920x1080@30Hz

SYSTEM SETTINGS

AUDIO



CAMERA SETTINGS

• The OSD Menu will automatically timeout/disappear after 30 seconds of no activity. (time can be adjusted)

VIDEO



Contrast:

Adjust to set the white level so that the images are at their brightest without losing definition in the white portions of the image. Setting the too high will result in an over-saturated image.

Brightness:

Adjust to set the black level so that the images are at their brightest while the black portions are still black. Do not adjust too high where the black portions of the image become gray or the image will have a "washed out" appearance.

Sharpness:

Adjust lower if the image appears too grainy or pixelated. Increase if the image appears too soft.

Color Temp:

Adjust to achieve a realistic image of the items within the viewing area.

User RGB:

To adjust the RGB color values, the Color Temp mode must be set to USER. Adjust each value as needed.

• These settings do not adjust the network image. It's recommended to verify that the network image from the IP camera looks correct before adjusting these monitor settings. The camera's image settings can be adjusted after logging into the camera with a web browser.

DISPLAY



Aspect Ratio:

Select the display aspect ratio (Full Screen, Cinema Scope, 4:3, Pillar Box Expand, 1:1). Select Full Screen to correctly display the camera image without stretching or distortion.

Image Mode:

Choose what displays on the LCD. Image Mode options will vary by model.

- Camera: Only the camera image is displayed, motion detection features are disabled.
- Logo Motion: When there is no motion, the PVM will display a selected store logo. Once motion is detected the camera will be shown on the screen. After there is no motion the screen will switch back to the store logo. (requires store logo input from Company Selection menu, see page 8)
- Motion LED: The camera image is the main and only display; when motion is detected the LED(s) on the front of the PVM will flash until motion is no longer detected.
- Logo Alarm: When there is no motion, the PVM will display a selected store logo. Once triggered by an alarm input, the camera will be shown on the screen. After there is no motion, the screen will switch back to the store logo. (requires store logo input)
- SD-Video: Only content from the SD Card will be shown. (requires PVM with SD Card player)
- Alarm: SD Card content is the main display; when triggered by external alarm the display will switch to the camera image full screen. (requires PVM with Alarm inputs)
- Motion: SD Card content is shown on the screen, but is switched to the camera view when there is motion.

Dwell Time:

Set to adjust how long the screen will display video after motion is detected. **Example:** If set to 3 Seconds - the screen will switch from the 'Store Logo' image to the camera image. The camera image will remain on the screen until NO motion is detected for a period of 3 seconds.

- Image Modes that use Motion Detection will not work if certain settings on the IP camera are disabled. The required settings are: (the camera is defaulted with settings enabled) Camera / Motion Sensor (ON) / Area 1 Enabled Event / Motion Event / Alarm Out Enabled Event / Action / Operation: Alarm Out, Schedule: Always, Duration: 5 Sec or Transparent
- Image Mode options will vary by PVM model.
- Logo Motion is disabled unless a company is selected.

DISPLAY / Image Modes Overview



Camera



SD-Video



Logo Motion



Logo Alarm



Motion



Alarm



Motion LED

COMPANY SELECT

ATTENTION:

1

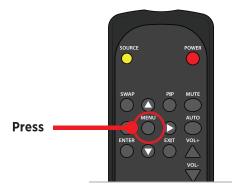
No company is assigned by default. It's the responsibility of the installer to select the correct company from the list of available options. Follow the steps below to access the Company Select menu.

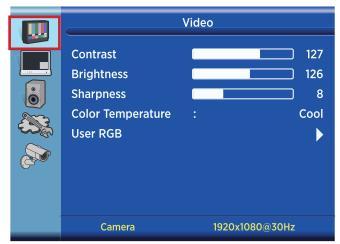
This feature is to be used only for large installations and should be approved by supervisor.

Company listings and options are subject to change without notice!

Press MENU button on remote

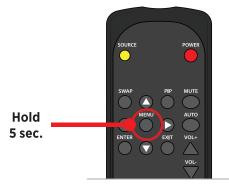
This will open the OSD menu. The first menu option of Video must be selected to display Company Select.





2) Press + hold MENU button for 5 seconds

After 5 seconds the menu screen will display as Company Select, with 'None' as the selected company.



	Company Select	
Company	:	None
Camera	1920x	1080@30Hz

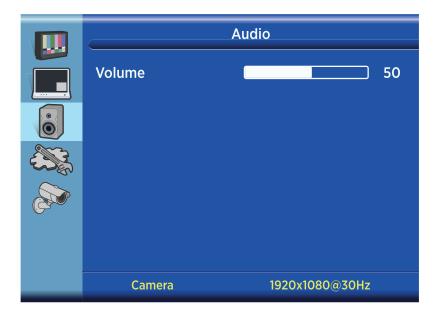
Select desired company

Scroll through the list using the Up/Down buttons on the remote.



With the desired company selected, press the ENTER button to confirm the company and exit the menu. Depending on the available options for the selected company, custom banner and logos will be automatically configured for Logo Motion and Message settings.

AUDIO



Volume:

Raise or Lower the volume for the SD Card content or Chime*. Alternatively, you can use the volume buttons on the remote control to set volume level.

Output:

Choose the audio output from the PVM. These options will vary by model.

- SD Audio: Only audio from the SD Card (if audio file saved on SD card/video file)
- Chime*: Only audible "ding-dong" chime is played when motion is detected.

SYSTEM SETTINGS

	System	Settings	
	Language	:	English
	OSD Timer	:	30 Sec.
	OSD Transparency	:	0
	Key Lock	:	No
E Contra	Message Control		
	LED		
	Recall	:	No
	Camera	1920x108	30@30Hz

Language:

Display the OSD menu in English or Spanish. Note: Changing the Language does not change the flashing on-screen message. This must be changed in the Message Control > Message setting.

OSD Timer:

Set the time in seconds before the OSD menu timeouts/disappears.

OSD Transparency:

Set the transparency level of the OSD menu.

Key Lock:

Turning this ON will lock to Menu Buttons located on the back of the PVM, the remote control will still function. The remote control is required to disable Key Lock.

Message Control:

Adjust the settings for the overlay text or image banner displayed on the lower portion of the screen. (see page 11 for more detailed information)

LED:

Adjust the settings for the built-in flashing LED(s). (see page 12 for more detailed information)

Recall:

Resets PVM settings to defaults (does not affect any camera settings).

SYSTEM SETTINGS / Message Control



Message On/Off:

Turn the on-screen overlay message/banner ON or OFF. This will display on the lower portion of the screen.

Message:

Select from a variety of image Banners, or simple RED text that reads: Recording in Progress, Welcome, Grabacion en Progresso, or Bienvenida. There are also two selections that alternate between the English and Spanish versions of these text overlays (Flash must be set to "ON" for these selections).

Banner Examples:

Shown are some of the available banner options. Some options are available in multiple languages. Images noted with an * (asterisk) have a transparent background.



Message Flash:

Turning Flash "ON" enables the on-screen message to flash on and off. If bilingual text overlay message is selected, this option must be "ON" to see message in both languages.

SYSTEM SETTINGS / LED Control

	System	Settings	
	Motion LED Control	:	On
	LED Control	:	Off
	LED RGB Control	:	Blue
	LED Open Time	:	0.5 Sec.
	LED Close Time	:	0.5 Sec.
C			
	Camera	1920x10	080@30Hz

Motion LED Control:

Set to ON for the LED/RGB LEDs to only illuminate when motion is detected. Set to OFF for the LED/RGB LEDs to constantly be illuminated.

LED Control:

Set to ON to enable the single Yellow LED light.

LED RGB Control:

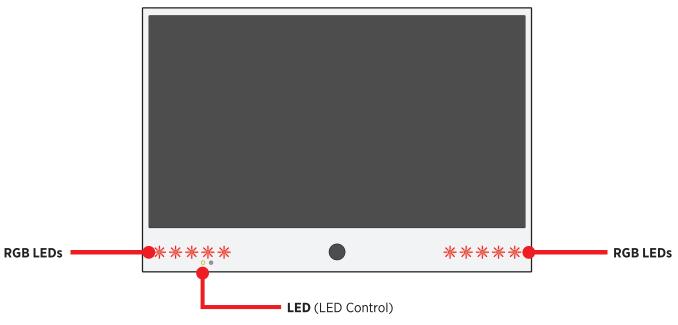
Adjust the color of the RGB LEDs; Red / Green / Yellow / Blue / Magenta / Cyan / White / Color cycle / Off. Selecting Color cycle will cycle through all of the colors sequentially.

LED Open Time: (controls both single LED and RGB LEDs simultaneously)

Adjust how long the LEDs are ON when flashing. If set to OFF the LEDs will not illuminate.

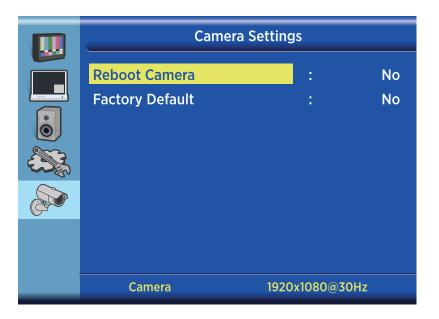
LED Close Time: (controls both single LED and RGB LEDs simultaneously)

Adjust how long the LEDs are OFF when flashing. Set the LED Close Time to OFF for the RGB LEDs to remain constantly illuminated, with no flashing.



*Actual location and number of LED(s) may vary by model

CAMERA SETTINGS



Reboot Camera:

To reboot the camera, select Reboot and press the ENTER button on the remote. The reboot takes about 1 minute to complete.

Factory Default:

To reset all of the settings on the camera to the defaults, select Factory Default and press the ENTER button on the remote. After pressing ENTER the camera will immediately perform the Factory Default process, during this time the camera will be inaccessible for about 1 minute and perform a reboot.

The camera's IP Address should remain unchanged, unless the DHCP server re-assigned a new address. After the camera reboots, the password will need to be reconfigured, as well as any additional camera settings.

SD CARD PLAYER / Formating Image Files

PVM models with built-in SD Card player can display images when the Image Mode is set to the appropriate mode. (SD Video, Motion, Alarm) Follow the information below to ensure files are properly setup.

1) Format the SD Card

If using an existing SD Card it is best to format the SD Card to delete any additional/unnecessary files. Playback errors can occur if there are "junk" files saved on the card. Format the SD Card to FAT32.

Resize Image

For images to display correctly, the image will need to fit the following dimensions: 1080 (w) x 768 (h). *Files with different dimensions may not fill the screen, or could not display at all.*

Step 2a. Size desired content to match the screen pixel dimensions: 1920 (w) x 1080 (h).

Step 2b. Unproportianatly resize the image to: **1080 (w) x 768 (h)**. The image may appear slightly distorted, but this is OK, it will display correctly on the screen.



Save Image to SD Card

Save the file as a JPG/PNG. For best results avoid excessively long file names, special characters, and spaces in the file names. Multiple images can be saved to the SD Card, and will display sequentially in alphabetical order.

- The SD Card & player can be damaged if the SD Card is inserted incorrectly.
- The content on the SD Card can become corrupted if inserting/removing while the PVM is powered.
- Ensure only the desired content is saved to the SD card. Additional content can cause errors with the player.
- SD Card player feature varies by model

IP CAMERA / Discovery

1 Install iDevice Manager

To quickly discover Clinton IP cameras on the network, use the iDevice Manger application. This is a free application and can be found at www.clintonelectronics.com/downloads.



Manager

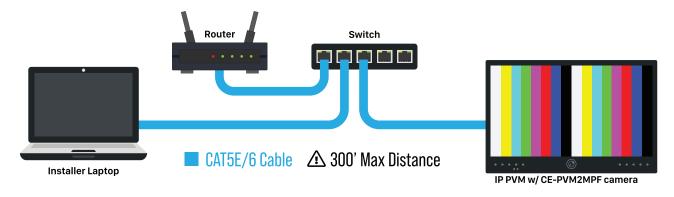
After downloading, follow the setup wizard to complete the installation.

If prompted by Windows Firewall during the installation or first time launching the application, select the desired network communication options. These settings can be re-configured via: Control Panel > Update and Security > Windows Security > Firewall & Network Protection > Allow an app through firewall.

Depending on your computers network settings, the network profile may need to be set to Private in order to discover devices on the network. If you are unsure, it's recommended to check with your IT/Network admin before adjusting settings on your computer.

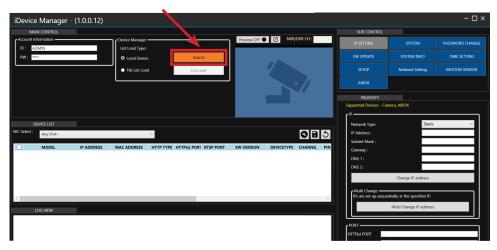
2) Connect Laptop to Network with PVM

Using ethernet cable, connect Windows PC to PVM via DHCP enabled Server/Router.



3 Launch iDevice Manager

If no cameras are shown in the Device List, click the Search button to scan for available Clinton IP cameras and devices on the local network.



IP CAMERA / Discovery

4

Find desired IP Camera

Click on the desired device to view and/or configure in the Device List. If multiple Clinton IP devices are on the network, it may be useful to use the MAC address to help identify the desired device.

For Clinton PVMs you should look for model: **CE-PVM2MPF.**



TIP: Camera Preview

To preview the video image from a selected camera, enter the camera's credentials into the 'Account Information' panel, then click on the desired camera to preview. Next click on the 'Preview OFF' button to preview the live video. (during image preview you can not adjust camera settings)

Set IP Address Info:

5

If desired change the IP address of the camera by editing the info in the IP Setting Property panel. It's recommended to change the Network Type from DHCP to Static after the desired IP address has been set. Click the 'Change IP Address' button after making adjustments to save IP address settings.

iDevice Manage	er - (1.0.0.12)											- 🗆 >	×
MAIN CONTROL									5	SUB CONTROL			
Account information		Device Manager List Load Type			Preview OFF	• 🖄 NVR	/DVR CH :	~	IP	SETTING		PASSWORD CHANGE	1
PW: ****		O Local Devic		Search					FW		SYSTEM INFO	TIME SETTING	
		 File List Loa 	ıd	List Load						SETUP	Network Setting	MOTION SENSOR	
							• /			AIBOX			
										PROPERTY			
										rted Devices - Cam	nera, AIBOX	,	
DEVICE LIST									Net	work Type	Static	· · ·	
NIC Select : Any IPv4 -			~				08	1.5	IP A	iddress :	10	1 3 104	
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MODEL	IP ADDRESS	MAC ADDRESS		HTTP(s) POR1 RTSP P		DEVICETYPE	CHANNEL		Gate	eway:	10	1 . 3 . 1	
CE-E04HDA CE-PVM2MPF	10.1.3.221 10.1.3.103	C4:A1:0E:B0:00:1A C4:A1:0E:B0:00:2B	НТТР НТТР	80 554 80 554	90100.1.0249.100 90100.1.0249.100	NVR/DVR CAMERA		ок ок	DNS	S 1:	208	91 112 2	
CE-PVM2MPF	10.1.3.103	C4:A1:0E:80:00:3C	HTTP	80 554	90100.1.0249.100		-	OK	DNS	S 2 :	208	91 112 52	
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TIP: Bulk IP Address Assignment

To assign IP addresses to multiple devices simultaneously, click the check box on the desired cameras, then enter the IP Address information in the property panel. Next click the 'Multi Change IP address' button to assign the new IP addresses to the selected cameras.

IP CAMERA / Login

(1)

Log in to camera

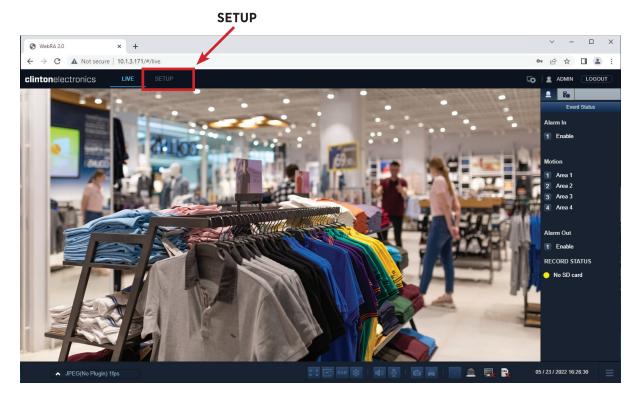
Type the IP Address of the camera into your desired web browser. On the initial connection to the camera you will be prompted to create a password for the ADMIN user. After the password has been set, the page will reload. Enter default User ID of ADMIN and the newly created password.

♥ WebRA 2.0 × +	New Password Required!
← → C 10.1.3.171	To help keep your information safe, your new password must contain:
clintonelectronics LIVE SETUP	 At least 8~16 characters At least 1 uppercase and lowercase letter At least 1 number At least 1 special character: ~'!@#\$%^&*()+=[]{}.?/ Additionally, your password should not include: Your user ID
Enter New Password	NEW PASSWORD
Confirm New Password	PASSWORD CHECK

2 WebRA Live View

After successful log in to the camera, the live view will be shown. Note that most browsers only support video previews of MJPG at 1 fps— and do not support live streaming of full resolution and frame rate.

Click the 'SETUP' tab at the top of the page to make adjustments to the camera.

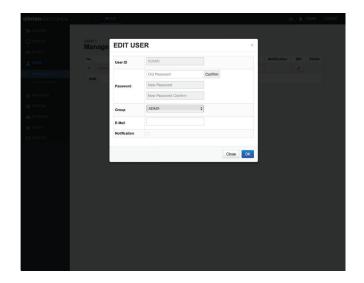


- *Microsoft Edge Internet Explorer Mode*: To view full video resolution and frame rate on Edge, open the Settings menu (three dots in the upper-right corner), then select Reload in Internet Explorer Mode.
- Some of the controls below the Live image have no function when using Chrome, Edge, Firefox, or Safari.
- You may need to add the web port (HTTP) after the IP Address of the camera if the page will not load.

IP CAMERA / Adjusting Basic Camera Settings

Before completing the installation it's recommended to check and adjust basic camera settings such as: Codec, Date/ Time, Admin password, and confirm the IP Address settings.

clinton electronics	LIVE SETUP			50 1	ADMIN LOGOUT
S CAMERA					
Codec Setup Image Setup Motion Sensor	Codec Setup				
Privacy Mask Embedded OSD Tamper Detection	Codec Setup				
DISPLAY	Stream	1st	2nd	3rd	
≼() AUDIO	Codec	H284	H264	None	
💄 USER	Codec Profile	High	High	High	
INETWORK	Size	1920x1080			
SYSTEM	Frame Rate(FPS)	20			
STORAGE	COP Size Bit-rate Control	20 Frames[1-60] VBR	10 Frames(1-60)	30 Frames(1-60) CBR	
EVENT	Image Quality	Mid			
RECORD	Bit-rate	2800 kbps	550 kbps	3000 kbps	
	MJPEG Quality	40	40 ~	40 ~	
	Boost Quality	Off			
	Video Format	NTSC			
	Corridor View	Off			
	Output Bandwidth Limit	Off .			
	MAX Bandwidth	8000 kbps			



CAMERA / Codec

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 Unit
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 Count
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NETWORK / IP Setup

ALL MERING </t

SYSTEM / Date & Time

USER / Management

IP CAMERA / Codec Settings

CAMERA								
► Codec Setup	CAMERA >							
Image Setup	Codec Setup							
Motion Sensor	Codec Setup ROI							
Privacy Mask								
Embedded OSD								
Tamper Detection	Codec Setup							
	Stream		1st		2nd		3rd	
NUDIO	Codec	H264	~	H264	~	None	~	
	Codec Profile	High	~	High	~	High	~	
	Size	1920x10	80 ~	640x360) ~	640x360	~	
-	Frame Rate(FPS)	20	~	10	~	30	~	
SYSTEM	GOP Size	20	Frames[1~60]	10	Frames[1~60]	30	Frames[1~60]	
STORAGE	Bit-rate Control	VBR	~	VBR	~	CBR	~	
EVENT	Image Quality	Mid	~	Mid	~	High	~	
	Bit-rate	2800	kbps	550	kbps	3000	kbps	
	MJPEG Quality	40	~	40	~	40	~	
	Boost Quality	Off	~					
	Video Format	NTSC	~					
	Corridor View	Off	~					
	Control view	OII						
	Output Bandwidth Limit	Off	~					
	MAX Bandwidth	8000	kbps					

Adjust the camera codec settings as needed to meet the requirements of the install network.

Click the **APPLY** button at the bottom of the page to save codec changes.

Codec:

- **H264** : Video compression standard to transmit high quality video stream efficiently. H.264 is available in various networks and systems and allows the bit-rate to be controlled according to adjusted bandwidth usage.
- H265 : Provides substantially improved video quality at the same bit-rate of H.264. Check to ensure the connected NVR or VMS Server supports H.265 video.
- MJPEG : Motion JPEG uses a considerable amount of bandwidth, but provides excellent quality for each image.

Size : Adjust the output resolution of the camera as needed.

Frame Rate (FPS) : Set the frame rate for the video from 1~30 fps. If recording the video at a lower frame rate, consider lowering the frame rate from the camera to save network bandwidth.

GOP Size (Group of Pictures) : The GOP setting is automatically adjusted for best results based on the FPS setting and should only be adjusted if necessary (adjusting from the automatic setting can have a negative effect with decoding hardware/software). Lowering the GOP value may improve video quality but consumes more bandwidth. Conversely, increasing the GOP value consumes less bandwidth, which may degrade video quality.

Bit-rate Control : You can select CBR, VBR, or VBR+.

- CBR (Constant Bit Rate) : Used for encoding H.264/H265 video into a fixed Bit Rate.
- VBR (Variable Bit Rate) : Encoding bit rate will be varied from video to video. Normally, when the video is more dynamic, the Bit Rate will also go up.

IP CAMERA / Codec Settings

• VBR+ : Has a higher compression rate than VBR. The effectiveness will be maximized if the video is less dynamic. Depending on the decoding software or hardware used, the VBR+ video stream data may not display correctly. If necessary, consult with the decoding software or hardware manufacturer.

Image Quality : With VBR or VBR+ set, you can reduce bandwidth further by lowering the image quality.

Bit-rate : Adjust the average size of the encoding video. Enter a value within a range of 512 Kbps ~ 15,000 Kbps.

Boost Quality : When a Motion Detection event is triggered, the camera's FPS/Bit-rate/GOP value is changed into the specified Boost FPS/Bit-rate/GOP value.

- Boost FPS : Sets the frame rate when motion is detected.
- Boost Bit-rate : Sets the bit rate when motion is detected.
- Boost GOP Size : Set the GOP Size when motion is detected.

Video Format : Select either NTSC or PAL video format.

Output Bandwidth Limit : You can select whether to limit bandwidth or not.

• MAX Bandwidth : Specifies the peak bandwidth. Enter your desired value if selecting <ON> for Bandwidth Limit. Enter a value within a range of 1,000 kbps-30,000 kbps.

Supplementary : Used to set up the Frame Per Second reception rate differently for the 1st/2nd video streaming.

- Use : Sets whether to use Supplementary.
- Original stream : Sets the default video stream.
- FPS : You can set the frame rate of the camera image.

Use the charts below as a reference for bit rate values with some common resolutions and frame rates. These are recommended starting bit rate values and should be adjusted accordingly to meet the requirements of the install network.

		H.264 Bit-r	ate Guide (Kb	ps)		
Resolution	30 fps	25 fps	20 fps	15 fps	10 fps	5 fps
1920 x 1080 (2MP)	4096	3500	2800	2048	1536	768
1280 x 720 (720p)	2048	1792	1536	1024	768	384
704 x 480 (D1)	1024	896	640	512	384	192

		H.265 Bit-r	ate Guide (Kbj	os)		
Resolution	30 fps	25 fps	20 fps	15 fps	10 fps	5 fps
1920 x 1080 (2MP)	2048	1792	1536	1024	768	384
1280 x 720 (720p)	1024	896	768	512	384	192
704 x 480 (D1)	512	448	384	256	192	96

I NOTE:

• Codec Settings do not effect the main image of the PVM. These settings only effect the network stream(s).

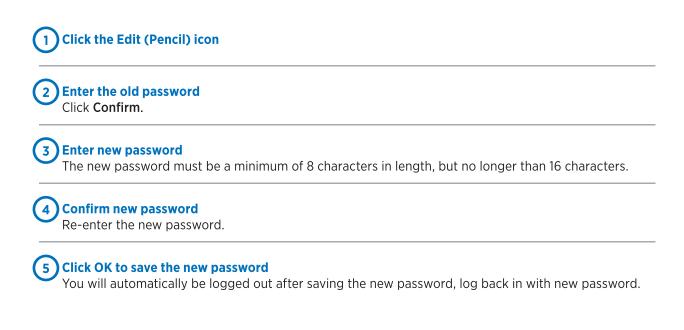
• If selecting H.265: Ensure the connected equipment supports the H.265 codec.

IP CAMERA / Set Admin Password

clinton electronics	LIVE SET	UP				50	AL	DMIN 🗌	LOGOUT
CAMERA									
	user > Manage	EDIT US	ER		×				
∎)) AUDIO	No.				_	Notification	Edit		
LUSER	1 ADMIN	User ID	ADMIN						
Management Group Authority	Add		Old Password	Confirm					
		Password	New Password						
			New Password Confirm						
SYSTEM		Group	ADMIN	\$					
		E-Mail							
		Notification							
				Clo	ose OK				

Follow the steps detailed below to edit the ADMIN password, or to create new user accounts.

To access the User Management page, click the User icon in the top right corner or click User, then select Management.



If the ADMIN password is lost, the camera will require a Factory Default to log in again. Refer to the Factory Default procedure detailed in this document. Factory Default will erase the password set during initial setup.

IP CAMERA / Verify IP Address Info

clinton electronics	LIVE SETUP		Go 🛛 🙎 ADMIN
🗫 CAMERA			
DISPLAY	NETWORK >		
AUDIO	IP Setup		
	IP Address		
	IPv4 IPv6		
► IP Setup			
DDNS			
EMAIL	IP Address	10.1.3.171	
UPnP	Subnet Mask	255.255.255.0	
RTP FTP	Default Gateway	10.1.3.254	
Security	1st DNS	10.1.3.23	
	2nd DNS	0.0.0.0	
SYSTEM			
and STORAGE	Service Port		
EVENT	HTTP Port 8	0 0	
RECORD	RTSP Port 5	54 🗘	
_			
			APPLY CANCEL
			APPLT CANCEL

Verify that the IP Address of the camera is correct or assign a new IP Address to the camera.

Click the **APPLY** button at the bottom of the page to save IP Setup changes. Once clicked you will be disconnected from the camera. To log in to the camera again, enter the newly assigned IP Address.

By default, the camera uses DHCP to get an IP Address and other network information from the connected DHCP server/router. To prevent the camera from potentially getting a new IP Address it is recommended to disable DHCP once the IP Address is set/confirmed to be correct.

If you are unsure about assigning an IP address to the camera, it's best to check with the network administrator to avoid potential IP address conflicts.

To access the web viewer when HTTPS is enabled:

In the web browser enter: https://[ip.address]:[HTTP port], example: https://192.168.109.115:80

IP CAMERA / Set Time & Date

 CAMERA CAMERA CISRIA VICIO VICIO VICIO SYSTEM CATE / THE System Managenet System Ma	lintonelectronics	LIVE SETUP			
Image: Aublio Image: Aublio <tr< th=""><th>CAMERA</th><th></th><th></th><th></th><th></th></tr<>	CAMERA				
▲ AUDIO ▲ USER ▶ NETWORK ▲ SYSTEM ▶ NETWORK ▲ SYSTEM ▶ OATE / TIME ▶ OATE / TIME > System Management System Information Scurify Schedule preadt ■ STORAGE ■ EVENT ■ RECORD					
● USER ● NETWORK ● NETWORK ● SYSTEM ● DATE / TIME ● DATE / TIME ● DATE / TIME ● System Management System Information Security ● StorAGE ● TORAGE ● TORAGE ● TIME ● TORAGE ● TORAGE ● TIME ● STORAGE ● TIME ● TIME ● DATE / TIME ● TORAGE ● TORAGE ● TORAGE ● TORAGE ● TORAGE ● TORAGE ● TORAGE ● DATE / DAT	()) AUDIO	DATE / TIME			
NETWORK Date Time 05 / 25 / 2022 11:50:46 Date Time 05 / 25 / 2022 11:50:46 Date Format MM/DD/YYYY Cate Format MM/DD/YYY Cate Format MM/DD/YYY Cate Format MM/DD/YYY Storace Time Server Setup Sync Time Sync Time Oo:00 Storace Timezone / DST Cate Format DST On		Date Time Setup			
SYSTEM Date Format MM/DD/YYY Time Format 24 HOUR Time Format 24 HOUR Time Server Setup Network Time Server Setup Time Server pool.nto.org Auto Time Sync StorAGE STORAGE EVENT DST GMT-06:00 America/CST On	—	Date Time	05/25/2022 11:50:46		
DATE / TIME DATE / TIME System Management System Information Security Schedule preset StorAGE Timezone / DST GMT-06:00 America/CST + DST On	-	Date Format	MM/DD/YYYY \$		
System Management System Information Security Schedule preedt ■ EVENT ■ RECORD		Time Format	24 HOUR \$		
System Information Security Auto Time Sync Off Sync Time 00:00 STORAGE Timezone / DST GMT-06:00 America/CST DST On		Network Time Server Setup			
Security Auto Time Sync Schedule preedt Sync Time StorAGE Timezone / DST EVENT DST DST On		Time Server	pool.ntp.org		
Schedule preext Sync Time StorAGE Timezone / DST GMT-06:00 America/CST Image: Cord Cord Cord Cord Cord Cord Cord Cord		Auto Time Sync	Off \$	SYNC.	
STORAGE Timezone / DST GMT-06:00 America/CST RECORD GMT-06:00 America/CST On		Sync Time	00:00 \$		
EVENT Timezone / DST GMT-06:00 America/CST DST DST On		Timezone / DST			
ERECORD DST On I		Timezone / DST	GMT-06:00 America/CST \$		
	EVENT	DST			
APPLY CANCEL	RECORD				
APPLY CANCEL					
					APPLY CANCEL

It's recommended to check and/or configure the Date & Time for the camera, especially if this information will be embedded onto the network stream, used for recording, or if time-based schedules will be used for event notifications.

The default **Time Server** is [pool.ntp.org], but this can be edited to a different network time server address, example: 192.168.109.5 where 5 is the NTP server.

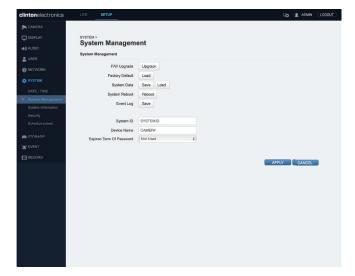
To automatically have the camera sync it's time to the Time Server, set **Auto Time Sync** to **ON**, then set a desired Sync Time.

Set the Timezone and DST (Daylight Saving Time) options for the camera.

Click the **APPLY** button at the bottom of the page to save DATE/TIME changes.

IP CAMERA / Optional & Advanced Settings

clinton electronics	LIVE SETUP					
S CAMERA						
Codec Setup	CAMERA >					
Image Setup	Embedded OSD					
Motion Sensor	Camera Information					
Privacy Mask	Resolution	OFF	0			
Embedded OSD Tamper Detection	Date / Time	OFF	\$			
Tamper Detectori	DEVICE NAME	OFF	\$			
DISPLAY	Note - Go to System Administratio	in to set the (evice name				
AUDIO						
LUSER	AI Face Detection					
B NETWORK	Display Bounding Box	ON	0			
SYSTEM	Bounding Box Width	5	0			
	Bounding Box Color	RED	٩			
EVENT					APPLY CANCEL	
RECORD				_		



CAMERA / Embedded OSD Al Face Detection Box

clinton electronics	LIVE SETU	JP						ADMIN	LOGOUT
🗯 CAMERA									
DISPLAY	STORAGE >								
≪ ⊕ AUDIO	SD Card								
LUSER	SD Card								
H NETWORK	DISK WRITE MO	DE							
SYSTEM	DISK	WRITE MODE	ONCE	\$					
	Name	Туре	Format	Total Size	Used	Available	Status	Settings	
STORAGE	SD Card						Unmounted	Configure	
► SD Card									
EVENT	CONFIGURATIO	N							
RECORD		Storage Name	SD Card						
		Storage Type							
		Storage Status	Unmounted		MOUNT				
	SI	D Card Format		\$	FORMAT				
		Check Disk	Check						
							APPLY	CANCEL	

STORAGE / SD Card

SYSTEM / System Management Firmware Update, Factory Default, System Data

ton electronics	LIVE SETUP					LOGOUT
CAMERA						
DISPLAY						
AUDIO						
USER	RECORDING MODE					
NETWORK	NOTE - You must use a 16GB of	r higher SD card to use	ecording storage. Older SD	cards may not work.		
SYSTEM	CONTINUOUS O EVENT	DISA3LE				
STORAGE	STORAGE Options					
EVENT	RECORDING STORAGE	SD Card	\$			
RECORD	CONTINUOUS RECORDING Opt	ions				
RECORD SETUP	VIDEO STREAM	2ND STFEAM	0			
	EVENT RECORDING Options					
	VIDEO STREAM	2ND STFEAM	•			
	Recording schedule	Note - Go to Schedule	Preset to create a new preset			
		always	🛃 weekday	weekend		
	RECORDING TIME					
	PRE RECORDING TIME	5 SEC	•			
	POST RECORDING TIME	30 SEC	¢			
					APPLY CANCEL	

RECORD / Record Setup

IP CAMERA / Face Detection Box

ATTENTION:

• Al Face Detector by default is set to OFF. Check with supervisor before enabling this feature. The following steps are optional and should be skipped if this feature is not to be used.

lintonelectronics	LIVE SETUP	So I admin
S CAMERA		
Codec Setup Image Setup	CAMERA > Embedded OSD	
Motion Sensor	Camera Information	
Privacy Mask Embedded OSD Tamper Detection 	Resolution OFF \$ Date / Time OFF \$ DEV/ICE NAME OFF \$	
DISPLAY	Note - Go to System Administration to set the device name.	
)) AUDIO	Al Face Detection	
	Display Bounding Box Vidth 7 \$	
SYSTEM	Bounding Box Color RED \$	
		APPLY CANCEL

The camera can be configured to overlay a colored frame around faces, giving the impression of advanced AI monitoring.

Follow the steps below to enable this feature:

Select **Display Bounding Box**, and change from OFF to **ON**.

When prompted, click OK to acknowledge that the colored box will be embedded onto the network video stream.

Attention	×
Embedded OSD options such as Camera Information or AI Def embedded onto the video stream. These will display on recorde	
	Close

3 Adjust the Box Width and Color. For a thicker Box Width increase the number.

4 Click APPLY to save changes. Once saved, the colored Face Detection boxes will display on the video.

① NOTE:

1

[•] The colored detection boxes will be embedded into the video stream. Do not enable this feature if you do not want the colored boxes to be saved on recorded video.

IP CAMERA / System Management

clinton electronics	LIVE SETUP	
🗫 CAMERA		
DISPLAY	SYSTEM >	
NUDIO	System Management	
LUSER	System Management	
	F/W Upgrade Upgrade	
SYSTEM	Factory Default Load	
	System Data Save Load	
DATE / TIME	System Reboot Reboot	
System Management	Event Log Save	
System Information		
Security	System ID SYSTEM ID	
Schedule preset	Device Name CAMERA	
STORAGE		
	Expired Term Of Password Not Used	\$
RECORD		APPLY CANCEL

Firmware Upgrade:

To update the camera's firmware, click the Upgrade button, then click the Choose File button. Select the location on your computer where the firmware file is saved. Click Upload to begin the firmware update.

For the most up-to-date firmware, visit www.clintonelectronics.com/downloads

The firmware update could take up to 5-10 minutes to complete. During the firmware update do not adjust additional camera settings. Once the firmware update is complete the camera will reboot.

F/W Upgrade	
Choose File I o file chosen	
Please select a file for F/W upgrading.	
	Close
F/W Upgrade	

Factory Default:

Click the **Load** button to restore the camera's default settings. This will reset or erase all of the settings on the camera, with the exception being network settings (the camera's IP Address should remain unchanged, unless the DHCP server re-assigned a new address)

Now file uploading...

During the Factory Default process the camera will be inaccessible for about 1 minute and perform a reboot.

System Data:

The camera's settings can be saved as a "config" file that can be used to quickly setup additional cameras. Click **Save** to save the camera's settings to your computer. Click **Load** to copy the saved settings from the connected computer to the camera.

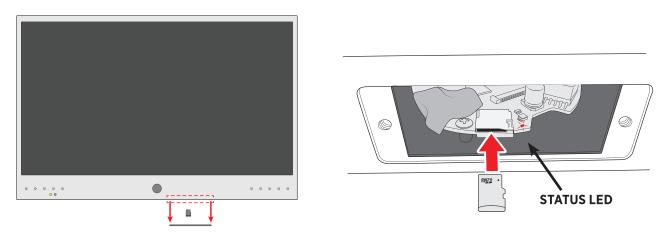
Close

IP CAMERA / SD Card Edge Recording

Follow the steps below to save recorded video locally to on the camera using a microSD card (not included).

Remove the microSD card cover plate to gain access to the card slot. The location of the cover plate varies by model, but is either located on the bottom or side of the PVM.

Insert a micro SD card as shown. Inserting the card "upside-down" can cause damage to the microSD card and slot. A red LED indicator with illuminate when the microSD is correctly inserted.



I NOTE:

- *The camera does not automatically record when a microSD card is inserted.* Further configuration is required. Continue following the setup procedure.
- Minimum card size is 16GB. For best results, use a Class 10 32GB or larger card designed for 24/7 operation.

2 Navigate to : **STORAGE > SD Card**. If the microSD card is inserted correctly, the 'Status' column should display as In Use. If it shows as Unmounted, check that the microSD card is correctly inserted.

For best recording results it's recommended to format the card while inserted into the camera. To format: Click the **Configure** button. Then click **FORMAT**.

clinton electronics	LIVE SE	TUP						SO 2 ADMIN	LOGOUT
🗫 CAMERA									
DISPLAY	STORAGE > SD Card								
📢 AUDIO	SD Caru								
	SD Card								
NETWORK	DISK WRITE M	ODE							
SYSTEM	DIS	K WRITE MODE ONCE			~				
and STORAGE	Name	Туре	Format	Total Size	Used	Available	Status	Settings	
► SD Card	SD Card	SD Card	exfat	119.05 GB	4.2 GB	114.85 GB	In Use	Configure	J
	CONFIGURATI	ON							
E RECORD		Storage Name	SD Card						
		Storage Type	SD Card						
		Storage Status	In Use		UNMOUNT				
		SD Card Format	exfat		FORMAT				
		Check Disk	Check						

3 When prompted, after clicking FORMAT, enter the ADMIN password. Click **CONFIRM**. This will erase all data previously saved on the microSD card.

PASSWORD CHECK	×
	CONFIRM

IP CAMERA / SD Card Edge Recording

4 For Motion Recording, navigate to EVENT > Motion Event. (skip ahead to the next step if Continuous recording will be used)

Click the Recording checkbox to enable recording when Motion is detected.

Click the **APPLY** button at the bottom of the page to save Motion Event changes.

clinton electronics		SETUP						
🗫 CAMERA								
DISPLAY	EVENT >	Event						
NUDIO	Motion	Event						
LUSER	Notificati	on - Actions and notifications	require detailed set	tings on each setting p	age to work.			×
		Event Paramet	er		Action		Notification	
C SYSTEM	ID	Ignoring Inter-	al	Alarm Out	Send Image	Recording	E-Mail	
and Storage	1	OFF	~					
EVENT								
Action								
Event Notification								
Alarm Event								
Motion Event								
Tamper Event								
Network Disconnected E								
System Event								

5 Next, go to RECORD > RECORD SETUP.

Set the Recording Mode to **EVENT** for only recording when motion is detected. Selecting Continuous will record non-stop, even if motion is not detected.

Select which stream to use for recording, either the 1ST or 2ND STREAM, (configurable via CAMERA / Codec Setup). Then select what the recording Schedule should be: Always, Weekday, or Weekend.

Click the **APPLY** button at the bottom of the page to save Recording Setup changes.

clinton electronics	LIVE SETUP				50 I 🙎 ADMIN	LOGOUT
🗫 CAMERA						
DISPLAY						
AUDIO						
LUSER	RECORDING MODE					
NETWORK	NOTE - You must use a 16GB or	higher SD card to use	recording storage. Older SD	cards may not work.		
SYSTEM						
STORAGE	STORAGE Options					
EVENT	RECORDING STORAGE	SD Card	\$			
	CONTINUOUS RECORDING Optic	ons				
RECORD SETUP	VIDEO STREAM	2ND STREAM	• •			
	EVENT RECORDING Options					
	VIDEO STREAM	2ND STREAM	\$	1		
	Recording schedule	Note - Go to Schedu	e Preset to create a new preset			
		always	🗹 weekday	weekend		
	RECORDING TIME					
	PRE RECORDING TIME	5 SEC	\$			
	POST RECORDING TIME	30 SEC	\$			
					AFPLY CANCEL	

It's is recommended that the Date & Time information of the camera be verified and/or configured if recording video to the SD Card. The saved files will use the date & time information for file naming.

IP CAMERA / Search & Backup Files through browser

Follow the steps below to search recorded video and/or backup video from the microSD card .

Launch Microsoft Edge, and connect to the camera using Internet Explorer Mode. To view using IE Mode, open the Settings menu (three dots in the upper-right corner), then select Reload in Internet Explorer Mode.

2 Click on the **SEARCH** tab. Then, select a day on the calendar, and click on the timeline in the area you wish to view. Click the Play icon to begin playback.



3 To create a backup file of video from the microSD card, click the **BACKUP** tab. Next select the desired day from the calendar to load the video. Then click and drag to select the desired backup time.

Click the **EXPORT** button to open the Backup window. Edit the date and time if needed, then click the **Start** button.



*Backup files will be saved to: Windows (C:) / Save Video

- Search and Backup functionality is only available using Internet Explorer Mode on Edge. These tab options are not viewable on other browsers such as Google Chrome, Safari or Firefox.
- To view backup files, download the Backup Player from: www.clintonelectronics.com/support

IP CAMERA / Viewing Backup Files

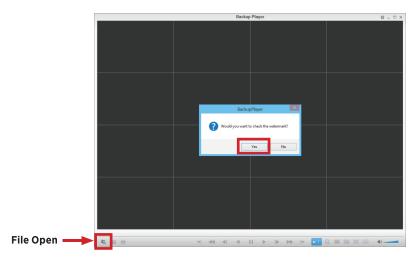
To view video backups from web interface 'BACKUP':

Download and install Backup Player from www.clintonelectronics.com/support (Windows only).



2 Launch Backup Player, then click on the **File Open** icon in the lower-left corner of the window, or drag-and-drop the backup file onto the black viewer area. (Saved video backups can be found here: Windows (C:) / Save Video)

Click **Yes** when asked to check for the watermark to verify that the video has not been editted.



3 After checking the watermark, the video will load and begin playing. Click Pause to drag the timeline playhead to the desired time.



• Viewing files directly from microSD card requires VLC Media Player. If you do not have VLC Media Player, it can be downloaded for free from: https://www.videolan.org/vlc/ Each file on the microSD card will be 5 seconds long, because of this it is recommended to perform Playback and Backup of video through the web interface.

clintonelectronics

E-Series PVM

User Manual

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