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GATEKEEPER DN3359 G4 Viewer Plus Installation Guide

GATEKEEPER
MOBILE VIDEO SOLUTIONS FOR BUILDING SAFER & SMARTER COMMUNITIES
G4 CONNECT ANDROID
User Manual & Install Guide

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Contents

Introduction

1.1 Welcome to G4 Connect
G4 Connect is a custom app used to connect to Gatekeeper Systems DVRs. With G4 Connect you can configure the DVR, view live cameras for aiming, playback and export previously recorded video.
1.2 Key Specifications

- DVR configuration
- Video Playback
- Export video clips

1.3 Smartphone/Tablet Requirements
G4 Connect is compatible with Android devices.

Device System Requirements	
Android mobile operating sy stem	• Android version 5.0 or above
Tablet Hardware Specifications	• CPU Speed: 2.3GHz or higher • CPU Type: Octa-Core or better • RAM Size: 4GB or higher • Wi-Fi 802.11 a/b/g/n/ac 2.4G+5GHz or better

Not meeting these guidelines may result in jumpy video, stalled video, slow updating on some video windows, black screens etc.

1.4 App Installation
G4 Connect – Apps on Google Play
Please click the link above to download the app and install it to an Android device.

G4 Connect – Apps on Google Play

Please click the link above to download the app and install it to an Android device.

Connection for DVRs without built in wi-fi

DVRs without built in wi-fi (flex-fi) will require a Wi-Fi dongle connection to connect to G4 Connect. DVR's that have built in wi-fi (Y35 v2, Y35 HD, Y58, Y816-R) do not require a wi-fi dongle connection.
Please see Login for instructions on connecting a DVR with built in wi-fi to G4 connect.
Please Note: For G4 Connect to function there is a specific order for the G4 Connect Wi-Fi dongle / SD card combination. The Wi-Fi dongle is a compact, portable, plug and play device that allows the DVR to connect to Wi-Fi automatically.
Step 1: Insert the SD card into the SD card slot on the Gatekeeper Systems G4 Connect Wi-Fi dongle.
With the DVR powered up, insert the USB connector of the Wi-Fi dongle into the USB port of the DVR. If using the Gatekeeper Systems G4 Connect Wi-Fi dongle with a Gatekeeper Systems USB HUB, make sure to follow the connection instructions on the Gatekeeper Systems USB HUB.
Step 2: Go to Google Play Store on your Android device and search for G4 Connect. Download the application and install it to your Android device.
Step 3: Connect the Gatekeeper Systems G4 Connect Wi-Fi dongle to the DVR.
Step 4: Launch G4 Connect on Android device. You will be presented with a login screen.
Step 5: Click the Search button, top right-hand corner. This will request G4 Connect to search for all connected Gatekeeper Systems DVR's.

Step 6: Select the DVR you would like to view.

Login

Click the G4 Connect icon to open the application
After launching the G4 Connect, you will be presented with a login screen.
Navigate To – Login Screen

Step 1. Turn on the DVR
Step 2: Navigate to the Wi-Fi settings of the device. This will display all the available networks.
Step 3. Search for the SSID: ST-xxxxxxxx. Refresh in case you are not able to find the SSID.
Step 3. Select the device.
If the device requires a password, enter: 30131127
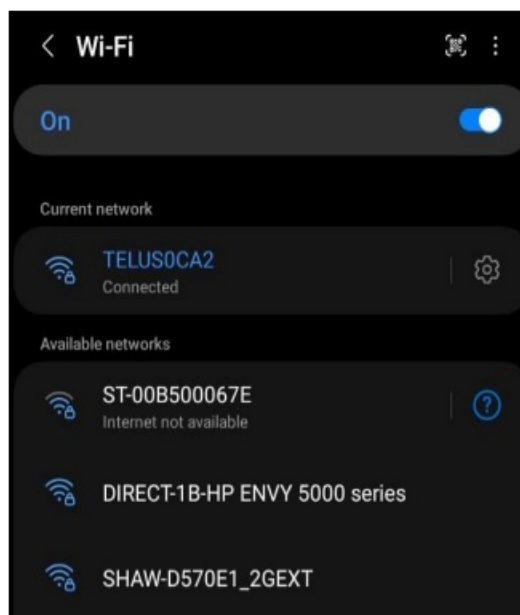Step 4. Enter the Username and Password and click Login.
Use the following credentials:
Username: admin
Password: admin (if required)
You are now successfully connected through the G4 Connect app and can begin using the application.
Login Screen Quick Reference

Search	This will request G4 Connect to search for all connected Gatekeeper Systems DVR's.
Address	Displays the IP Address.
Username	Enter username DEFAULT SETTINGS: • **admin**
Password	Enter password DEFAULT SETTINGS: • **admin**
Login	Click the login icon to login.

Identifying the DVR SSID

Before a Wi-Fi connection can be established with the DVR, you must first identify the device's network broadcast ID (or SSID). The default Wi-Fi network address of the DVR corresponds with its MAC address or Electronic Serial Number (e.g., 00:00:35:00:0A:E6 or 00990125B9). The MAC address, and subsequent SSID, can be found on a label that is included with the DVR packaging box. Make sure you have correctly identified this network broadcast ID before proceeding.

Interface

When G4 Connect is launched for the first time, it will default to the General, Basic Info screen. Other options are also available, including Preview; Playback (including Export) and Preferences.
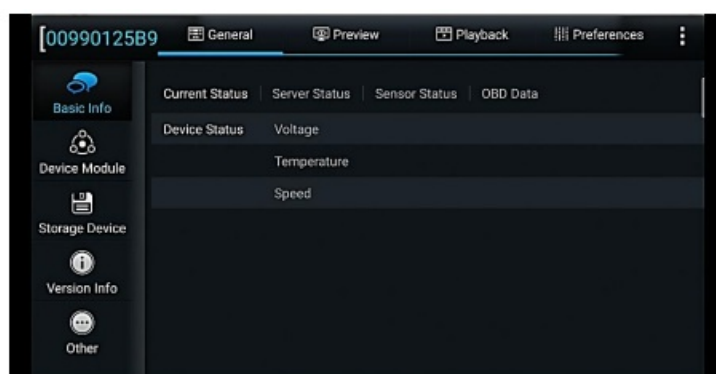
The G4 Connect app makes navigating the DVR functionality easy through its four tabs: 'General', 'Preview', 'Playback', and 'Preferences'.

| Icon	Function
General	Operating information for the DVR
Preview	View Data in real time
Playback	View previously recorded data.
Preferences	Configure DVR settings

4.1 The 'General' tab: Your Device's Status

Device status settings can be viewed by using the 'General' tab in the G4 Connect app. This tab provides insight into the basic operating information for the DVR, and includes technical details such as:
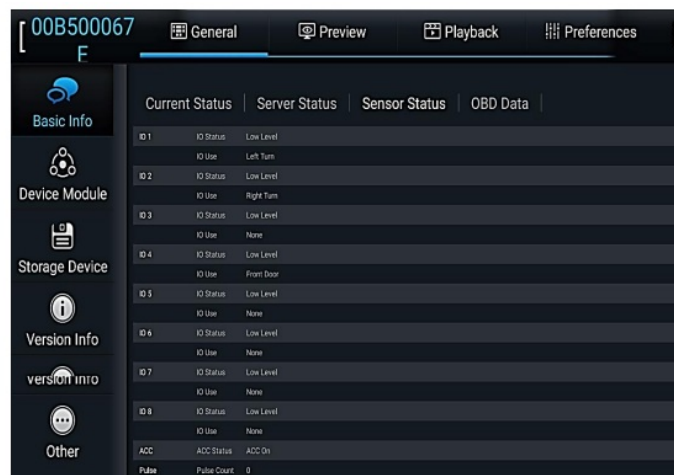
 Basic Info: The current / historical / server / Input & Output operating status.
To check the server status, navigate to General>Basic Info>Server Status
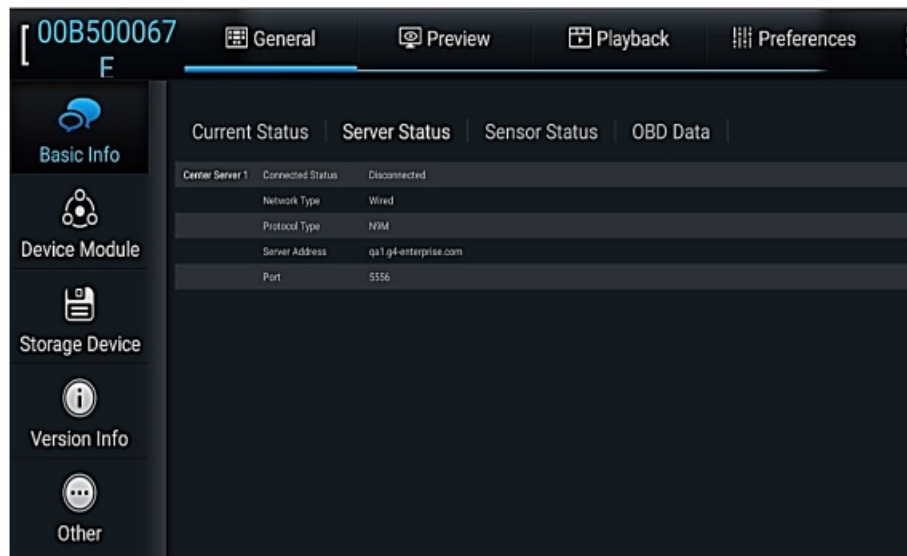
If the device is connected to the server, the status will change to 'Connected'.
To check the sensor status, navigate to General>Basic Info>Sensor Status.

 Device Module: The modules currently in operation on the connected device. The G4 Connect app supports viewing the status of the Devices communication (LTE) module (if equipped), wireless (Wi-Fi) module, and Satellite (GPS) module.

Storage Device: Details regarding the DVR installed storage.

This screen lists the storage devices which are currently attached to the device. It also indicates whether the device is currently recording to the listed storage devices, their total storage capacity, the remainder capacity in storage space as well as estimated recording time.

The information shown is as follows:

- Storage Name
- Status
- Remain/Total
- Formatting

Version Info: The firmware version currently installed on the device, as well as details for the firmware for any device peripherals.
This screen shows a summary of the various device hardware identification numbers, and the version numbers of the firmware that is running on the device.

The information shown is as follows:

- Device Model
- Firmware Version
- MCU Version
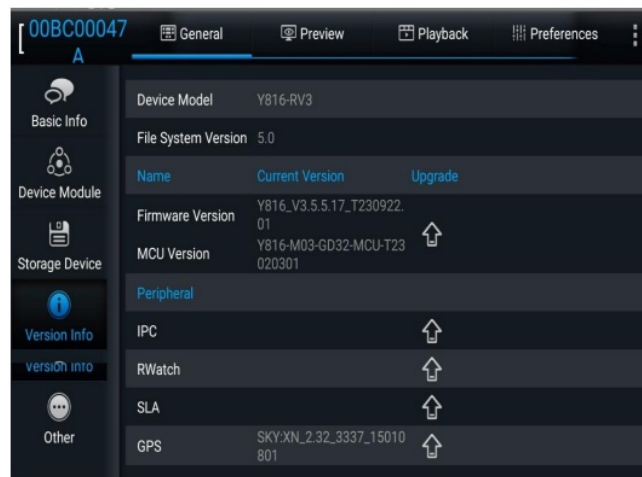
Other: A listing of system and settings logs, and configuration files available for import or export.

By exporting the configuration of the DVR, you can systematically save all settings associated with the device. This exported configuration file can then be imported into another DVR, streamlining the setup process, and eliminating the need for manual reconfiguration.

To export the configuration file:

- Plug a USB drive to a USB port of the DVR from which you intend to export the configuration file.
- Navigate to General->Other
- Click on icon to start exporting the configuration file.
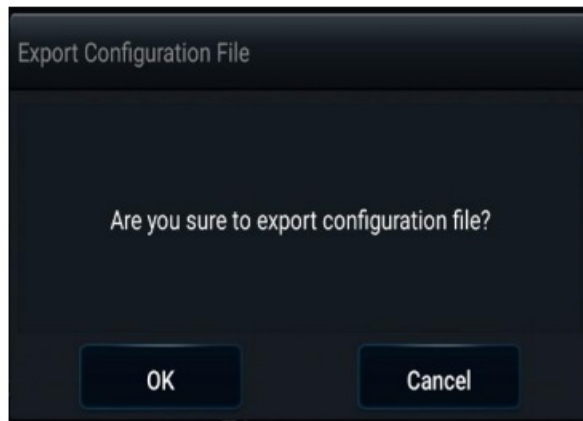
Click on 'OK'.

Upon successful completion, it will display '100% Execution Successful'.
To import the configuration file:

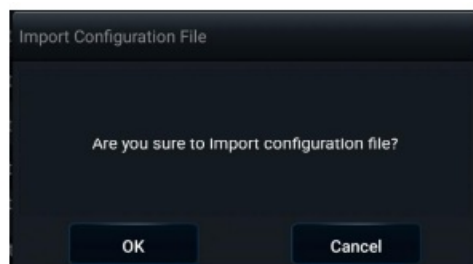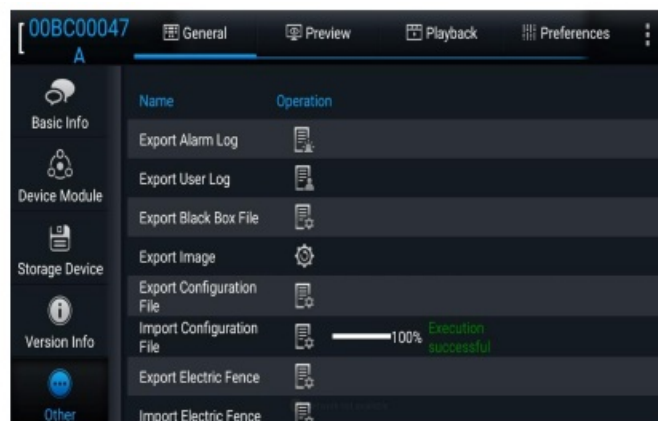- Plug the same USB drive in the USB port of the DVR in which you want to import the configuration file.
- Navigate to General->Other
- Click on icon to start importing the configuration files.

Click on 'OK'.
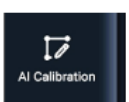
Upon successful completion, it will display '100% Execution Successful'.

4.2 🖵 Preview The 'Preview' tab: Viewing Live Video

Viewing video data in 'real-time' is done through the 'Preview' tab. The Preview tab provides a view panel for each camera configured with the device. The preview tab also provides the option to enable or disable the playback of sound being recorded through the device's built-in microphone.
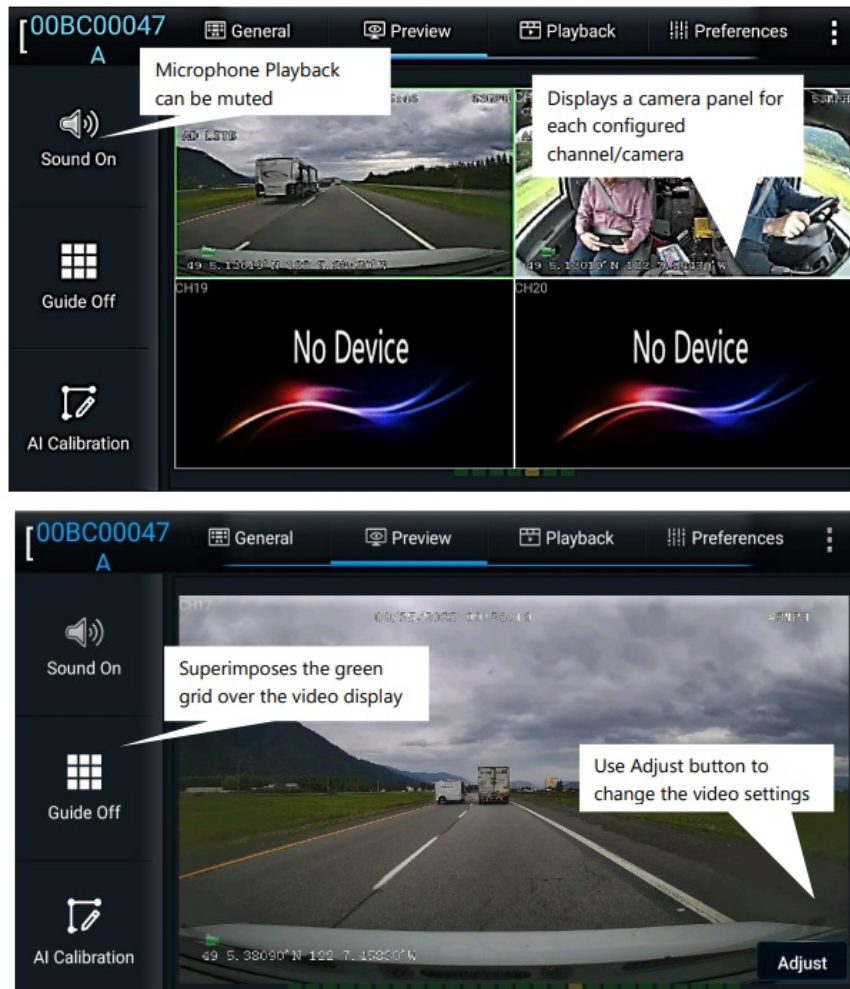
Icon/Action	Function
🔊 Sound On	Click "Sound On" to enable/disable sound
⊞ Guide On	Click "Guide On" to superimpose a green grid over a video display.
ADJUST	Use the 'Adjust' button to change the video settings
AI Calibration	Use 'AI Calibration' to calibrate the device
Double click	Double click the panel to full screen the video.

- A video detailing the time, date, speed, coordinates, will be shown.
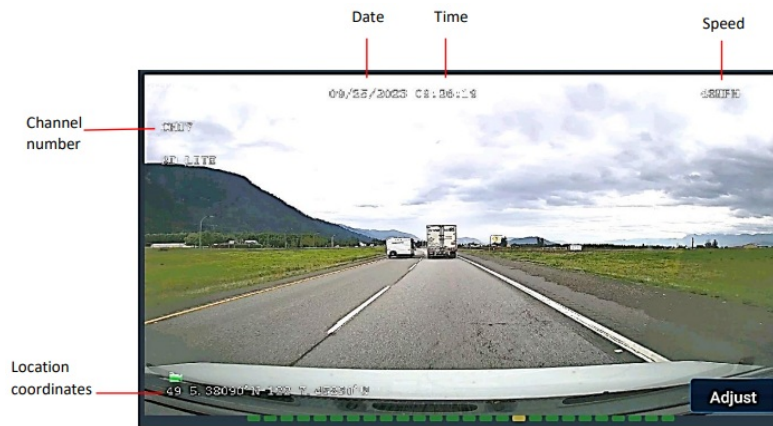
- Click Adjust to configure the video settings.

- Use the slider to adjust the brightness, contrast, hue, and saturation settings.
- Sliding right/left will increase/decrease its value.

By Default, all settings will be set to 31.
Once the settings are set, press hide to hide the settings adjuster.

📅 Playback   4.3 The 'Playback' tab: Managing Recorded Videoclips

Video playback, or viewing data that has been previously recorded, is done through the 'Playback' tab.
When opening the tab, you will be presented with a calendar view of all the videoclip data recorded to the storage device.
Select a date by clicking on the calendar.
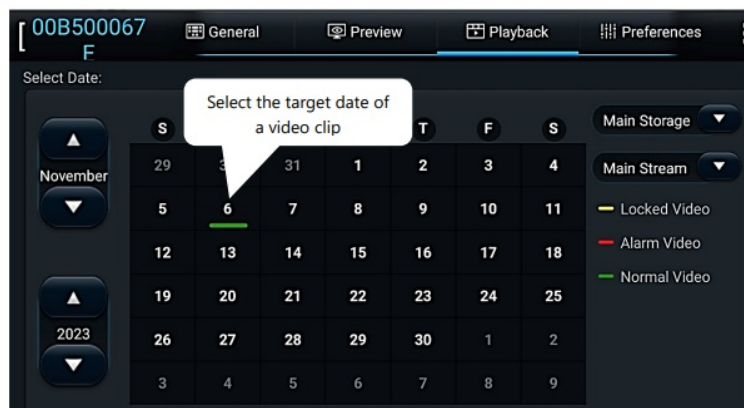
Clicking on a date in the calendar will open a panel displaying the 'Stream Type', 'Storage Type' and 'Channel'.
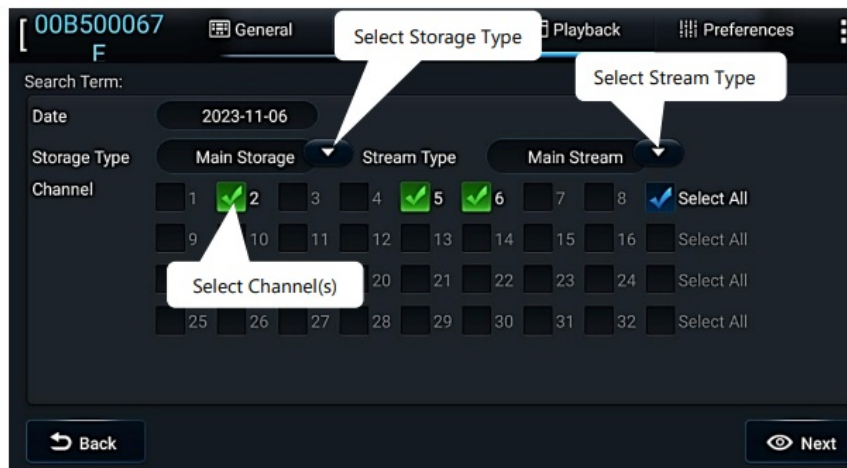
Select the Stream Type, Storage Type, and Channel to filter the video data, and then click 'Next' to open the video playback timeline.
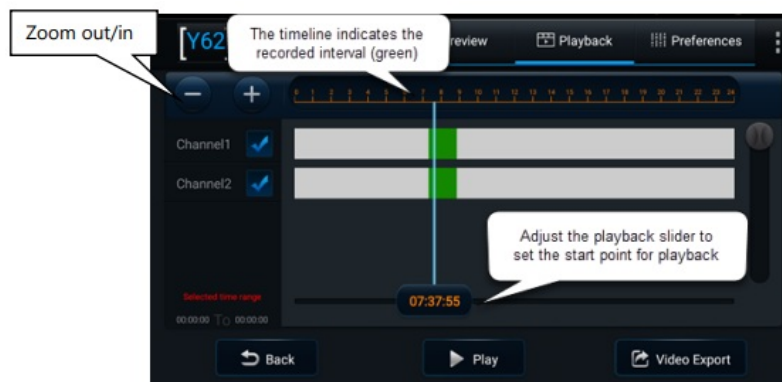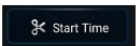
By moving the playback slider (located near the bottom of the panel) you can specify where your video playback will begin.

The 'Plus' and 'Minus' buttons can be used to zoom-in and out of the timeline to give you fine detail control of your video playback.

▶ Play Clicking 'Play' will begin playback of a videoclip.

4.3.1 Using 'Video Export' to export a videoclip
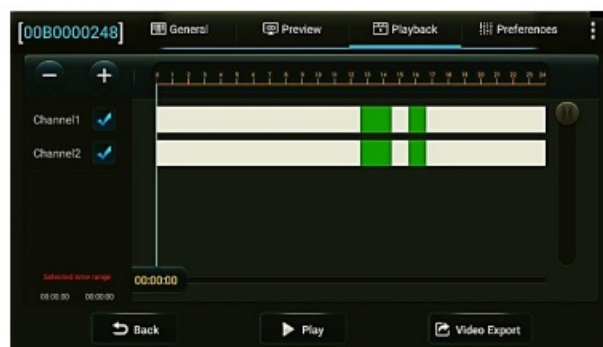
1. Click 'Video Export' ▶ Video Export .

2. Drag the slider to the position in the timeline where you would like to begin the export. Click 'Start Time'. Notice that the button changes from 'Start Time' ✂ Start Time to 'End Time'

3. The date selection tool will automatically pop up. Use the date selection tool to select the hour, minutes, and seconds where you would like to end your export. Click 'End Time' [End Time] to complete your selection.

Click OK to proceed or Cancel to cancel.

Clicking 'Video Export' [Video Export] completes the export process.
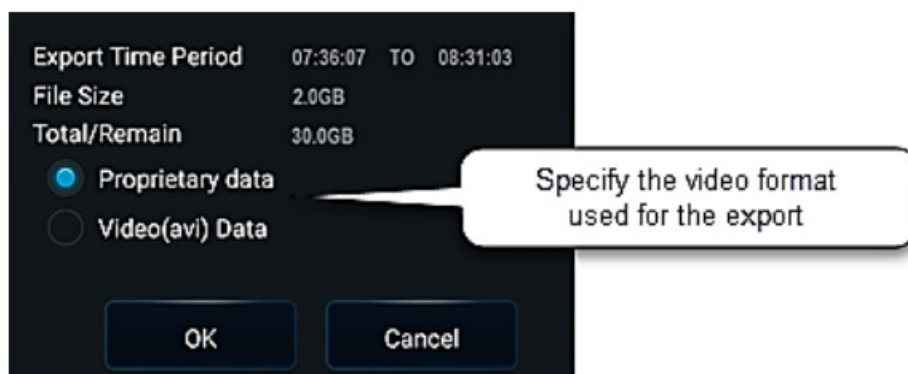
A summary screen will be displayed showing the export time period and the estimated file size of the video clip data to be exported.

The backup panel also allows you to define the file format to be used on export ('Proprietary', requiring G4 Viewer Plus™ to view, or the generic '*.avi' video file format).

Once the file export is successful, a message saying "Execution Successful" will be displayed.

4.4 The 'Preferences' tab: Configuring Your Device

The preferences tab is used to configure basic setup, surveillance, collection, alarm, and AI settings for the DVR.
NOTE: Settings may be different depending on the DVR model you are using.

4.4.1 Basic Setup
All the core device settings can be configured in this section. This includes key operational configurations such as device identifiers and vehicle information, user management, time setup, device start-up behavior and network settings and server configuration.
(Use the magnifying glass to zoom in and out for easier adjustment)

4.4.1.1 Regist Info

This subsection enables you to view and set the various identification codes to be associated with the device, as well as the vehicle it will be installed in, and the associated vehicle driver.

Device Info	Device ID	Numeric text field for setting a number to identify the device.
Vehicle Info	Vehicle Plate	Alphanumeric text field for setting the vehicle plate number. This is typically the vehicle registration plate number.
	Vehicle Num	Alphanumeric field for setting the vehicle number. Typically, the identification code used by the fleet operator to identify a particular vehicle.
	Line Number	Alphanumeric text field for setting the vehicle line number. Typically, the identification code used by the fleet operator to identify a route.
Driver Info	Driver Number	Alphanumeric text field for setting the driver information.
	Driver Name	Alphanumeric text field for setting the name of the driver.
	Plate Color	Drop list for setting the color of the vehicle license plate.
	Province ID	Alphanumeric text field for setting the province ID. Typically, the province the fleet is operating in.
	City ID	Alphanumeric text field for setting the city ID. Typically, the city the fleet is operating in.
	Manufacturer ID	Alphanumeric text field for setting the vehicle's manufacturer ID

	Terminal ID	Alphanumeric text field for setting the terminal ID. Typically, the terminal the vehicle is operating from.
	Terminal Phone	Numeric text field for setting the terminal phone number
	Terminal Type	Alphanumeric text field for setting the terminal type. Typically, the terminal the fleet is operating from.
	Vehicle VPN	Alphanumeric text field for setting the vehicle VIN.

4.4.1.2 ⏱ Time Setup Time Setup

The device contains a real time clock. This subsection enables you to view and set the date and time for the device, and also configure the options used for time synchronization as well as daylight savings.

General	Date Format	Drop list which allows you to choose the format in which date values will be displayed.
	Time Format	Drop list which allows you to choose the format in which time values will be displayed.
	Time Zone	Drop list which allows you to choose the time zone that the device will be operating in.
Time Sync	Date/Time	This is a set of fields allowing you to set the current date and time for the real time clock in the device.
	Satellite	Checkbox – if selected, the device will synchronize the date and time periodically with the GPS satellites.
	NTP	Checkbox – specifies if the device will synchronize the date and time periodically with a selected Time Server.

	Center Server	Checkbox – specifies if the device will synchronize the date and time periodically with the Center Server.
DST	Enable	Checkbox – selecting this will enable the device to calculate and adjust for daylight savings time.
	Offset	Drop list which allows you to choose the offset value to be used for the daylight savings calculation.
	Start	This is a set of fields which allow you to choose the starting point of the period for which the device will adjust for daylight savings time.
	End	This is a set of fields which allow you to choose the ending point of the period for which the device will adjust for daylight savings time.

4.4.1.3 ⏻ Startup **Startup**

This subsection enables you to set the startup characteristics of the device, as well behavior of the device whilst in sleep mode.

ON/OFF	Power Up / Shutdown Mode	Drop list to select the conditions for device startup and shutdown.
	DVR Power Off Delay	Numeric text field for setting the additional time period that the device will continue running after the vehicle ignition is off and the record extend delay timer has expired. The device will power down after this timer expires.

	Record Extend Timer	Numeric text field for setting the additional time period that the device will continue recording after the vehicle ignition is off.
	Timer From	This consists of two-time fields to set the start time and end time for which the device will turn on and turn off respectively.
	Light off time	The ICD display and lights will turn off after the set time.
Sleep	*Sleep Mode*	Drop list to select the sleep mode option for the device.
	DVR Voltage Setup	Checkbox – selecting this option will enable the device to monitor battery voltage. If the battery voltage falls below the specified threshold, the device will turn off to protect the battery from being discharged.
	Shutdown Voltage Threshold	Numeric text field to set the battery low voltage threshold. If DVR Voltage Setup Low Volt Protect is selected, the device will turn off when battery voltage is detected to be consistently below this threshold value.
	Power Up Voltage Threshold	Numeric text field to set the recovery boot voltage threshold. When the vehicle battery recovers its charge and is consistently above this threshold value, the device will automatically turn on again.
	Low Volt Upload	Checkbox – selected will enable the device to log and report if low voltage situation occurs.

4.4.1.4 👤 User Setup **User Setup**

This subsection enables you to add and edit users, as well as change the passwords required to log into the system.

User Setup	*Idle Time*	Drop list which allows you to set the login time out period. Users will be automatically logged out after the specified period of inactivity.
	User Name / User Group	List of users who are set up in the system. The User Group shows the type of user. Checkboxes allow you to select the specified user to edit or delete. Notes: · The user admin is the default administrator and cannot be deleted. · Only administrators can add or delete users. · In addition to the administrator, the maximum number of users that can be added is two.
	Add	On the add user screen, the following fields will allow you to key in the user details. · Alphanumeric text field to key in the user name. · Alphanumeric text field to key in the user password. · Alphanumeric text field to key in the user password a second time to confirm it. User name maximum of: · **10 characters** For password, you may input a maximum of: · **16 characters**
	Delete	After using the checkbox to select a user, the ' **X'** button will allow you to delete the selected user. A confirmation message will be displayed – clicking the **"Yes"** button on this prompt will confirm the action and proceed to delete the selected user from the device.

	Edit	After using the checkbox to select a user, this button will display the edit user screen. The edit user screen will allow you to modify the selected user's details: · Alphanumeric text field to key in the username. · Alphanumeric text field to key in the new user password. ·Alphanumeric text field to key in the new user password a second time to confirm it.

4.4.1.5 $\boxed{e\ \text{Network}}$ Network

This subsection enables you to view and set up all the network configuration options for the device communications. These include settings for the local network, web port settings, Wi-Fi, communications module, and center server settings.

Server Setup	*Center Server*	Drop list which displays a list of center servers configured in the device. Selecting one of them will display the currently set configuration values and allow you to modify them. These configuration values are server specific. If you have more than one center server set up, you will need to select each in turn and configure them separately. **Add** –"**+**" button allows you to add a new center server name and configure its settings. **Delete** – "**X**" button deletes the selected center server and its associated configuration settings. *Notes:* – *You may add up to 5 center servers.*
	ON	Checkbox – selecting this will mark the selected server as active.

	Protocol Type	Drop list to select the protocol type option for the selected center server.
	Enable Network	Drop list to select the network mode used to communicate with the selected center server.
	Register Server IP	Numeric text field to configure the IP address of the register server.
	Register Server port	Numeric text field to configure the port values used by the register server for the following protocol types.
	Media Server IP	Numeric text field to configure the IP address of the media server.
	Media Server Port	Numeric text field to configure the port values used by the media server for the following protocol types.
Ports	*WEB Port*	Numeric text field to set the web port number.

Local	*DHCP Mode*	Checkbox – if selected, the device will attempt to obtain the IP Address, Subnet Mask and Gateway automatically from the DHCP server.
	Static IP	Checkbox – if selected, the device will use the manually configured IP Address, Subnet Mask and Gateway.
	IP Address	Numeric text field allowing you to key in the IP address for the device.

	Subnet Mask	Numeric text field allowing you to key in the IP address subnet mask for the device.
	Gateway	Numeric text field allowing you to key in the IP address of the gateway for the device.
	Auto Get DNS	Checkbox – if selected, the device will attempt to obtain the DNS settings automatically.
	Use Following DNS	Checkbox – if selected, the device will use the manually configured DNS settings.
	Preferred DNS Server	Numeric text field allowing you to key in the IP address of the primary DNS server.
	Alternate DNS Server	Numeric text field allowing you to key in the IP address of the alternate DNS server
	MAC Address	Displays the MAC Address of the connected device.
Wi-Fi	Enable	Drop list to select the enable type option for the Wifi.
	Client Always	To configure the settings for client mode
	ESSID	It should match the Vehicle Number Field or Electronic serial number.
	Security Mode	Text field to enter the username for WPA2 Enterprise Credentials

		Password	Alphanumeric text field for password
		AP Settings	To configure the settings for AP mode
		ESSID	It should match the Vehicle Number Field or Electronic serial number.
		Security Mode	Drop list to select from the following options: · **None** · **WEP** · **WPA/WPA2-PSK** · **WPA2_Enterprise**
		Password	Alphanumeric text field for password
		Encryption	Drop list to select from the following options: · **AES** · **TKIP**
		Wi-Fi Channels	Set to Auto by default
		Wi-Fi Band	Drop list to select from the following options: · **2.4G** · **5G**
		Duration	Set to 120 by default
		Static IP	Numeric text field allowing you to key in the IP address.
		IP Address	Numeric text field allowing you to key in the IP address.
		Subnet Mask	Numeric text field allowing you to key in the subnet mask.
		Gateway	Numeric text field allowing you to key in the gateway address.

4.4.1.6   🔲 Application   **Application**

NOTE: GATEKEEPER DOES NOT SUPPORT THIS CONFIGURATION.		
FTP Server	*FTP Enable*	
	Server	
	Port	

	User Name	
	Password	
Download	*Auto download Reconnect*	Checkbox – if selected, the device will use the configured settings. This item is unsupported and reserved for future development.

4.4.1.7 🔊 Volume Setup **Voice Setup**

TTS Volume	Set the volume of the TTS playback.
ICD2 Volume	Set the volume of the ICD2 playback.
Preview Volume	Set the volume of the video preview.

4.4.2 Surveillance **Surveillance**

This section allows the user to setup the Digital IP Camera, and also configure the on-screen display and video capture and streaming settings for both the live viewing as well as the recording functions.

The settings here will allow you to enable and disable cameras for viewing and recording, configure timings for when recording takes place, and adjust the resolution and quality of the recorded video.

4.4.2.1 🖵 Live View **Live View**

This subsection enables you to configure the settings for the live view of the video coming from the cameras. These settings only affect the video being viewed on the LCD monitor or the ICD2 – they do not affect the recorded video.

Preview	*Startup Screen*	Drop box for selecting the type of live video displayed by default after device startup.
	Channel	Checkboxes – allows you to select the cameras to be included as part of the live view displayed channels.
	Preview Audio	Checkbox – if selected, the audio stream will be played during the live video view. Else, the audio will be muted by default.
	Auto Loop Enable	Checkbox – if selected will enable the auto-loop feature.
	Add Screen	Clicking the **"Add Screen"** button will add a new screen layout to the list. You can then use the **"▉"** button to edit the new screen layout settings.
	x	Clicking the **"x"** button will delete the associated screen layout.
Live OSD	*Date/Time*	Checkbox – if selected, the date and time will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.
	Vehicle Plate	Checkbox – if selected, the vehicle plate will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.
	Alarm/Event	Checkbox – if selected, any alarms will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.
	Vehicle Num	Checkbox – if selected, the vehicle num will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.
	Speed	Checkbox – if selected, the speed will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.
	GPS	Checkbox – if selected, the GPS coordinates will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.
	Channel Name	Checkbox – if selected, the channel name will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.
	G Sensor	Checkbox – if selected, the G Sensor information will be displayed as an overlay text on top of the live video view on the LCD monitor or ICD2.

4.4.2.2 ▶ Record **Record**

This section allows the user to select which cameras to record video from and set up the quality and resolution of the recorded video.

General	System	This drop list enables you to select what system format the video will be recorded in.
	Overwrite	The device records video cyclically. This drop list enables you to specify the conditions whereby older video will be overwritten.
	Storage Alert	Numeric text field setting the percentage of storage that can be used before an alert is sent to the user.
	Lock Duration	Numeric text field setting the lock duration for video data. If the lock duration is set, then video will always be retained for at least this duration regardless of the overwrite settings.
	Pre-recording	Checkbox – if selected will enable the pre- recording feature, so that when alarms/events occur, video data leading up to the incident is available as well. Selecting this checkbox will enable a drop list where you can specify the duration of video to pre-record.
	SD Record Mode	Drop list to select the SD Record Mode
	Storage Dual Stream Recording	Checkbox – if selected, enables the DVR to store dual stream recordings.
	Storage Dual Stream Split	A slide bar that allows the user to adjust the priority of he storage used by the dual stream recordings.
Main Stream	Channel	Drop list which displays the list of available camera channels. Selecting one of them will display the currently set configuration values, and allow you to modify them.

	Enable	Checkbox – if selected, enables this channel for inclusion into the main stream recording.
	Resolution	Drop list for selecting the resolution to record the video on this channel
	Frame Rate	Drop list allowing you to select the frame rate (in terms of frames per second) that you would like to record at.
	Quality	Drop list allowing you to select the encoding quality.
	Encode Standard	Drop list for selecting the encode standard of the video on this channel.
	Channel Name	Alphanumeric text field for setting the channel name.
	Record Mode	Drop list allowing you to select the record mode.
	Audio	Checkbox – if selected, then audio will be included in the recording. If this is not selected, then the video will not have any audio.
	Alarm Quality	Drop list to select the recording video quality during an alarm event.
	Encode Mode	Drop list to select the encoding mode.
	Audio Code Format	Drop list to select the audio code formatting.
	Copy	This feature allows you to easily copy the configuration settings on this channel to another selected channel. Use the drop list to select a channel – then clicking the **"Copy"** button will replicate all the current settings to the selected channel.
Sub stream	*Channel*	Drop list which displays the list of available camera channels. Selecting one of them will display the currently set configuration values and allow you to modify them.

	Enable	Checkbox – if selected, enables this channel for inclusion into the sub stream recording.
	Resolution	Drop list for selecting the resolution to record the video on the channel
	Frame Rate	Drop list allowing you to select the frame rate (in terms of frames per second) that you would like to record at.
	Quality	Drop list allowing you to select the encoding quality.
	Encode Standard	Drop list for selecting the encode standard of the video on this channel.
	Audio	Checkbox – if selected, then audio will be included in the recording. If this is not selected, then the video will not have any audio.
	Copy	This feature allows you to easily copy the configuration settings on this channel to another selected channel. Use the drop list to select a channel – then clicking the **"Copy"** button will replicate all the current settings to the selected channel.
Record OSD	*Time*	Checkbox – if selected, the date and time will be displayed as an overlay text on top of the recorded video.
	Vehicle Plate	Checkbox – if selected, the vehicle Plate will be displayed as an overlay text on top of the recorded video.
	Channel Name	Checkbox – if selected, the channel name will be displayed as an overlay text on top of the recorded video.
	Alarm/Event	This setting allows you to set the Alarm Info on the recorded video. Click the **(Setup)** button to display the position setting screen.
	Speed	Checkbox – if selected, the speed will be displayed as an overlay text on top of the recorded video.

GPS	Checkbox – if selected, the GPS coordinates will be displayed as an overlay text on top of the recorded video.
Vehicle Num	Checkbox – if selected, the Vehicle Num will be displayed as an overlay text on top of the recorded video.

4.4.2.3 IPC Setup

This subsection enables you to easily search for and configure the Digital IP cameras connected to the DVR.

- Enable Channel: The checkbox toggles the camera between enabled and disabled.
- Outside Channel: This checkbox marks an outside camera

4.4.2.4 **Camera Setup**

This subsection enables you to easily adjust the camera setup for each channel used by the DVR.

- Channel: A drop list allowing you to select an active channel to edit.
- Mirror: A drop list allowing the user to toggle if the video should be mirrored.
- Flip: A drop list allowing the user to toggle if the video should be flipped.

4.4.3 **Collection**

This section allows the user to configure all the settings related to data collection. This includes event logging from sensor input as well as alarms. The user can also configure the options for automated snapshots from the cameras based on specified triggers.

4.4.3.1 **General**

This subsection enables you to view and edit the data collection settings for sensors, alarms and other related events.

Serial Port	RS232-1	The first associated drop list allows the user to configure the port function. The second associated drop list allows the user to set the baud rate for the port.

Network	Name	Drop list allowing the user to set the network settings of the DVR.
	Type	Drop list to select the classification level for the alarm.
	Sub type	Default set to none
	IP	Numeric text field to configure the IP address of the register server.
	Port	Numeric text field to set the port number for the device.
Speed	Unit	Drop list allowing the user to set the measurement unit for the speed.
	Source	Drop list allowing the user to set the source for the speed measurement.
Location	Navigation mode	Drop list allowing the user to select the navigation mode of the DVR.
Mileage	Total	Displays the total mileage which the vehicle has travelled.
	Base Value	Sets the mileage of the vehicle on first day of service on that route. This value can be entered manually.
	Operation	Correct: Allows the current mileage of the vehicle to be entered. Clear: Resets the mileage of the vehicle to 0.
Unit	Temperature	Please set the preferred temperature measurement unit (Celsius or Fahrenheit) used in your region of operations.

4.4.3.2 📷 Snap Setting **Snap Setting**

Time Snap	Time Snap	Checkbox – if selected, this feature allows you to set up a schedule to capture snapshots using the cameras. Clicking the **"Add"** button will add a snapshot schedule task to the displayed task list with the following settings that you can edit: · **Start Time** – this is a time field which allows you to set the starting time to begin taking the snapshots. · **End Time** – this is a time field which allows you to set the ending time to stop taking the snapshots. · **x** – you can always click the (x) button to remove the associated snapshot task from the list. · 3 **–** this button will display the snapshot link set screen where you can edit the configuration settings for the snapshots taken during this snapshot task. In the configuration screen, you will be able to configure the snapshot settings for each individual camera channel in turn: • **Channel** – this is a drop list allowing you to select a particular camera channel. The associated snapshot settings for this channel will be displayed for editing. • **Snap Enable** – if the checkbox is selected, then this camera channel is included when the DVR performs the snap shot task. • **Resolution** – this drop list enables you to select the resolution for the snapshots. • **Quality** – this drop list enables you to select the quality of the snapshot. • **Upload Type** – checkboxes which allow you to select whether the snapshots are to be uploaded to FTP and/or Server. • **Image Quantity**– numeric text field to key in the number of snapshots that will be taken. • **Interval** – numeric text field to key in the interval (in seconds) between snapshots. • **Copy** – this feature allows you to copy the current snapshot settings for this channel to another channel, thus allowing you to replicate the snapshot task settings easily and quickly. Once you have selected the channel to copy to, click on the **"Copy"** button to make the copy.

| Trigger Snap | Alarm Image Upload Settings | Setting this enables the device to automatically take snapshots whenever an alarm event occurs.

Clicking the **"Setup"** button displays the snap link settings page which allows you to configure the settings for the snapshots to be taken where there is an alarm event.

In the configuration screen, you will be able to configure the snapshot settings for each individual camera channel in turn:

• **Channel** – this is a drop list allowing you to select a particular camera channel. The associated snapshot settings for this channel will be displayed for editing.
• **Snap Enable** – if the checkbox is selected, then this camera channel is included when the DVR performs the snap shots.
• **Resolution** – this drop list enables you to select the resolution for the snapshots.
• **Quality** – this drop list enables you to select the quality of the snapshot.
• **Upload Type** – checkboxes which allow you to select whether the snapshots are to be uploaded to FTP and/or Server.
• **Image Quantity** – numeric text field to key in the number of snapshots that will be taken.
• **Interval** – numeric text field to key in the interval (in seconds) between snapshots.
• **Copy** – this feature allows you to copy the current snapshot settings for this channel to another channel, thus allowing you to replicate the snapshot settings easily and quickly for the different camera channels. Once you have selected the channel to copy to, click on the **"Copy"** button to make the copy. |
| | Manual Image Upload Settings | These settings are used for snapshots which are taken manually by the user. Clicking the **"Setup"** |

		button displays the snap link settings page which allows you to configure the settings.
		In the configuration screen, you will be able to configure the snapshot settings for each individual camera channel in turn:
		• **Channel** – this is a drop list allowing you to select a particular camera channel. The associated snapshot settings for this channel will be displayed for editing.
		• **Snap Enable** – if the checkbox is selected, then this camera channel is included when the DVR performs the snap shots.
		• **Resolution** – this drop list enables you to select the resolution for the snapshots.
		• **Quality** – this drop list enables you to select the quality of the snapshot.
		• **Upload Type** – checkboxes which allow you to select whether the snapshots are to be uploaded to FTP and/or Server.
		• **Image Quantity** – numeric text field to key in the number of snapshots that will be taken.
		• **Copy** – this feature allows you to copy the current snapshot settings for this channel to another channel, thus allowing you to replicate the snapshot settings easily and quickly for the different camera channels. Once you have selected the channel to copy to, click on the **"Copy"** button to make the copy.

4.4.4   Alarm   Alarm
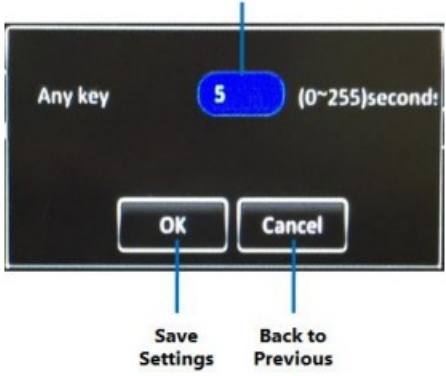
All settings related to alarm events are contained in this section. The user can configure the settings for the various alarms such as speed, panel, IO, ACC, as well as video loss events.

4.4.4.1   O Base   Base

This subsection enables you to set up the trigger for alarm events based on speed, panel and IO input, and also to define the actions that will be taken when the alarm occurs.

IO Alarm	Name	The list of available IO input triggers is listed on the screen. You may use the **"^"** and **"v"** buttons to scroll the list.
	OSD	Alphanumeric text field for setting a short code name identifying this sensor on the OSD (text data overlay on the video)
	Enable	Checkbox – if selected, will enable the device to monitor the associated IO input line for an alarm trigger.
	Alarm Type	Drop list to select the classification level for the alarm:
	Sensor Uses	This feature allows you to easily decide the usage of the sensor.
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen for the associated IO input line.
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm. The Linkage setup screen enables you to configure the following options: • **Channel** – checkboxes which allow you to select any combination of the camera channels to be included in the display and recording. • **Pre-Recording –** numeric value box which allows you to enter the duration for which video will continue to be recorded when the alarm is triggered. • **Post Recording** – drop list which allows you to select the duration for which video will continue to be recorded when the alarm is triggered. • **Lock** – checkbox, if selected will mark the recorded video associated with this alarm as locked video. • **Linkage IO Output** – checkboxes, if enabled, the device will send a signal to the selected IO output lines.

		• **Output Delay Time** – numeric text field to set the delay time for the IO output (in seconds). • **Alarm Upload** – checkbox, if selected will enable the device to upload the alarm to the center server. •**Linkage Screen** – drop list to select the options to display the video from the selected cameras on-screen when the alarm occurs. • **Alarm Image Upload** – checkbox – if selected, when the alarm occurs, the device will take snap shots using the selected cameras.
Speed Alarm	*Name*	Set to Overspeed
	Enable	Checkbox – if selected, enables the device to monitor for overspeed events. In case of speed exceeding the specified threshold, this alarm will be triggered.
	Alarm Type	Drop list to select the classification level for the alarm:
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen. • Early Difference: Numeric field to key in a value for when the vehicle goes over a specified speed prior to the actual speed limit. • *Speed:* Numeric field to key in the speed value over which the device will flag an over speed alarm. • *Duration Time:* Numeric field to set the duration of the alarm (in seconds). • *Save Settings:* Click the **"OK"** button to save the alarm settings. *Back to Previous:* Click the **"Cancel"** button to return to the previous screen without saving.
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.

Driver Alert	Name	Set to Driver Alert
	Enable	Checkbox – if selected, enables the device to monitor for Driver Alert Button presses. In case of the panic button on the panel being pressed, this alarm will be triggered.
	Alarm Type	Drop list to select the classification level for the alarm:
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen. **Debounce Time:** Multiple alarms of the same source activated within the debounce time frame are regarded as one alarm. Numeric text field to select debounce time from 0 to 10 seconds.
  • *Debounce Time:* Numeric text field to key in the duration of panic button press on the panel for which the device will flag the panic alarm. • *Save Settings:* Click the **"OK"** button to save the alarm settings. • *Back to Previous:* Click the **"Cancel"** button to return to the previous screen without saving.		
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.

4.4.4.2 **Video**

This subsection enables you to set up the trigger for alarm events based on video loss, and also to define the actions that will be taken when the alarm occurs.

Videoloss	*Name*	**Set to Videoloss**
	Enable	Checkbox – if selected, enables the device to monitor video loss events. In case of video loss detected on the specified camera channels, this alarm will be triggered.
	Alarm Type	Drop list to select the classification level for the alarm:
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen for the video loss detection. This will display a screen with a list of checkboxes allowing you to select a combination of camera channels for which the device will monitor for video loss events.
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.
Motion	*Name*	Set to Motion.
	Enable	Enables whether motion detection will be enabled.
	Alarm Type	Sets whether or not motion detection will be triggered by and event or an alarm.
	Trigger	Click the **"setup"** button and a separate window will appear for Motion detection setup. In this window several options are available. Select the channel on which you want the motion detection to be recorded. The area setup button of the selected channel will display a grid pattern. Select the area required to be covered by Motion detection.
	Linkage	When the **"setup"** button is selected a separate window will appear with options with multiple choices
Tampering	*Name*	Set to Tampering
	Enable	checkbox – if selected, enables the device to monitor for tamper events. If a camera is tampered with the specified camera channels, this alarm will be triggered.

	Alarm Type	Drop list to select the classification level for the alarm.
	Trigger	Click the **"setup"** button and a separate window will appear for Tamper setup. In this window, several options are available. Select the channel on which you want the tamper to be recorded. Select the area required to be covered by Tamper detection.
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.

4.4.4.3 ⚙ Advanced **Advanced**

This subsection enables you to set up the trigger for alarm events based on ACC input, and also to define the actions that will be taken when the alarm occurs.

G Sensor	Enable	Checkbox – if selected, enables the device to monitor for G Sensor trigger events. In case of G Sensor exceeding the threshold values, this alarm will be triggered.
	Alarm Type	Drop list to select the classification level for the alarm:
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen to setup the G Sensor threshold values: **X** – numeric text field to set the threshold value for the G forces along the x-axis. **Y** – numeric text field to set the threshold value for the G forces along the y-axis**.** **Z** – numeric text field to set the threshold value for the G forces along the z-axis. **Debounce time –** Multiple alarms of the same resource active within the debounce time frame are regarded as one alarm
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.

Geo Fence	Area I/O Alarm Switch	This turns on the alarm for geo fence
	Line I/O Alarm Switch	• Skew Alarm Switch • Driving Alarm Switch • Section Limit Speed TTS Switch
T&H Sensor	*Name*	T&H stands for Temperature and Humidity, this screen allows the user to see how the MDVR is doing regarding Temperature and Humidity.
	Enable	Checkbox – if selected, enables the device to monitor T&H Sensor events. In case of T&H Sensor exceeding the threshold values, this alarm will be triggered.
	Alarm Type	Drop list to select the classification level for the alarm.
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen to setup the T&H Sensor threshold values: ▪ **High Temp. Thresh** – numeric text field to setup the high temperature limit to trigger the sensor. ▪ **Temp. Increase Warn Time** – numeric text field to enter the warning time for increase in temperature. ▪ **Temp. Increase Difference** – numeric text field for temperature difference increase. ▪ **Debounce Time** – Multiple alarms of the same source activated within the debounce time frame are regarded as one alarm. Numeric text field to select debounce time from 0 to 10 Seconds.
	Linkage	Click the "**Setup**" button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.

4.4.4.4 AI

ADAS	**Name**	**Name of the Alarm**

	Enable	Checkbox – if selected, enables the selected alarm
	Alarm Type	Drop list to select the classification level for the alarm .
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen.
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.
DSM	Name	Name of the Alarm
	Enable	Checkbox – if selected, enables the selected alarm
	Alarm Type	Drop list to select the classification level for the alarm .
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen.
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.
CP	Name	Name of the Alarm
	Enable	Checkbox – if selected, enables the selected alarm
	Alarm Type	Drop list to select the classification level for the alarm .
	Trigger	Click the **"Setup"** button under Trigger to display the Trigger setup screen.
	Linkage	Click the **"Setup"** button under Linkage to go to the Linkage setup screen. This sets up the video display, recording and snapshot options associated with this alarm.

Algorithm	ADAS Camera Install Height	Set the height for the ADAS Camera being installed in the vehicle (in cm)
	AI Alarm Voice Enable	Checkbox – if selected, enables the AI alarm voice
	R-Watch	Checkbox – if selected, enables the R-watch
Algorithm calibration	Channel	Displays the channel number
	Use	Drop down list to select the usage of channels
	Mode type	Drop own list to set the mode type to either **'Normal'** or **'Calibration'.**

4.5 ▦ Other

Click the icon on the upper right corner to access the "Other" tab. This section contains information about privacy policy agreement, Decode, and allows the user to logout.

4.5.1 ![About] **About**

Click the about icon to access the G4 Connect Privacy Policy and User Agreement. The privacy policy is designed to inform the user about the privacy policies and practices.

4.5.2 ![Decode] **Decode**

This section enables the user to choose video decode type.
Select Hardware Decode to use the devices GPU to decode video
Select Software Decode to use the devices CPU to decode video
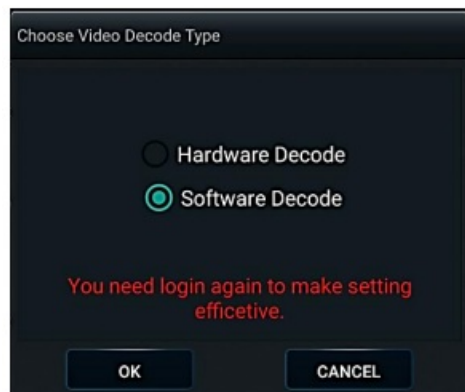
- Choose between Hardware Decode and Software Decode

- Press OK to proceed and Cancel to cancel.

4.5.3 ![Logout] **Logout**

Click the logout icon to logout of the application. Press OK to logout or Cancel to cancel.

Contact Information

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SALES & TECHNICAL SUPPORT
For technical support, contact Gatekeeper's Customer Care Group at Toll Free (N.A.) 1-**888-666-4833** or email

customercare@gatekeeper-systems.com

Gatekeeper also provides additional online training and support tools at: **https://www.gatekeeper-systems.com/support/**

Documents / Resources

GATEKEEPER DN3359 G4 Viewer Plus [pdf] Installation Guide
DN3359 G4 Viewer Plus, DN3359 G4, Viewer Plus, Plus

References

- **User Manual**