

United VMS 9.2

Admin Center Help File

Horizon/Meridian



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1 The Horizon/Meridian Video Management Syste



Horizon/Meridian is a powerful, easy-to-set-up and easy-to-use NVR (Network Video Recorder) system that lets you control multiple IP video cameras, record content continuously by time schedule or when triggered by motion detection, set up multiple user accounts with configurable privileges, and define rules and alarms.

The Horizon/Meridian System is provided as a preloaded NVR System on Horizon and Meridian hardware platforms depending on the performance requirements of the user.

Admin Center - The Horizon/Meridian Admin Center application allows the user to initially set up the system, add cameras and other edge devices, set up schedules, rules and alarms, edit the configuration, and carry out routine maintenance.

Once set up, the user can easily view the system components and make changes where necessary.

Control Center - The **Control Center** application allows one or more Users to connect to the system, watch live and recorded video and respond to alarms.

Web Client - A versatile **Web Client** allows any authorized user using a compatible browser to view live cameras and recordings, see alarms, and export clips from any PC on the user's corporate network

http:// [Horizon/Meridian URL]/webclient

Compatible Browsers

Chrome: IE: Opera: Minimum resolution - 1280 x 800 Version 29 and later Version 11 and later Version 16 and later

2 Login Screen

Welcome	to Horizon	Ver. 9.0
User name	admin	
Password		
Server IP / Hostname	System via gateway	•
	System via gateway	
	System	Login
	System	
Welcome	e to Meridian	Ver. 9.0
Welcome User name		Ver. 9.0
	e to Meridian	Ver. 9.0
User name Password Server IP /	e to Meridian	Ver. 9.0
User name Password	e to Meridian admin	Ver. 9.0

On startup of the Horizon/Meridian Admin Center, the User is shown a **Login screen**.

The user can enter a new Server IP/Hostname or choose from the drop-down list of previously-connected systems

2.1 SSA Expiry Notification

60 days prior to expiry, the users will be notified that their SSA is due to expire.

This message will appear:

- When the user logs in
- When the user is already logged in and the SSA expires or is about to expire.
- When a user is already logged in and the delayed reminder is due (after choosing the **remind me later** option).



SSA Expiry Notification

The message will only appear for users who have the permission to log into Admin Center.

3 Home Screen

When a User logs in to Horizon/Meridian, the Home screen is shown. *see Notes below

The Home screen shows the standard <u>Sidebar</u> on the left of the screen, and is divided into 3 sections:

- 1. <u>Recommended Settings</u>
- 2. Advanced Settings
- 3. Applications



The user can return to the Home screen from other system screens at any time, by clicking on the **Home** button in the Sidebar.

Notes:

In the following cases, the Home Screen is not the first screen shown:

- 1. The first time the Horizon/Meridian Admin Center is run, a one-time <u>Summary Screen</u> is shown.
- 2. When running the Horizon/Meridian Admin Center on a client machine, if the Server and Client machines are running different versions of the application, an <u>Automatic Update</u> window is shown.

'Check for Updates' link:

When running Horizon/Meridian Admin Center on a Client machine, then if Automatic Updates are enabled, the user can click on the 'Check for Updates' link at the bottom of the screen to check if a minor version update is available.

3.1 **Recommended Settings**

Recommended Settings

🙆 Camera Settings

Assign camera name, choose recording mode, set resolution, frame rate etc.

The **Recommended Settings** are a series of links that take the user through the tasks that should be performed after the software is installed and the Initial Setup Wizard has been run.

Users

Create users and groups and assign permissions.

Security

Set security rules and passwords for edge devices and protect Web Clients.



Create system sign-off report

3.2 Advanced Settings

Advanced Settings

🔔 Rules & Alarms

Create alarms and use event-based actions to help manage your system.

Storage Setup

Configure recording lifespan.

🚠 Site Setup

Group cameras and other items under sites for easy navigation.

📑 Maintenance

Backup system database periodically.

3.3 Applications

Applications

Control Center

Control and monitoring application for the security system.

🏠 Web Client

Monitor the system from a standard web browser

DNA - Discovery Network Assista

FLIR edge devices IP utility.

The **Advanced Settings** allow the user to apply local conditions:

- set up Rules and Alarms, configure how much space is used for camera recordings, arrange according to 'Sites', and set up backup schedules.

From the Home screen of the Admin Center application, the user can:

- launch the Control Center application,
- view the Control Center using a **Web browser**, or
- launch the DNA Utility.

3.4 Special Start-up Screens

In the following cases, the Home Screen is not the first screen shown:

- 1. The first time the Horizon/Meridian Admin Center is run, a one-time <u>Summary Screen</u> is shown.
- 2. When running the Horizon/Meridian Admin Center on a client machine, if the Server and Client machines are running different versions of the application, an <u>Automatic Update</u> window is shown.

3.4.1 Summary Screen - First time system is run



The **Summary screen** is shown after the Initial Startup Wizard has run, and the Horizon/Meridian system has been started up for the first time.

The screen shows that the Initial Setup Wizard has already:

- Discovered and set up cameras that it found on the Video Network,
- Initialized storage and started recording using the parameters set in the Initial Startup Wizard, and
- Created a structure for Users allowing different sets of User permissions.

To continue, the User clicks **OK** and proceeds to the **Home Screen**, where the <u>Recommended Steps</u> show how to continue setting up the system.

3.4.2 Automatic Update

When running the Horizon/Meridian Admin Center on a client machine, an Automatic Update window is shown if the Horizon/Meridian Server has been updated and the client application is out of date. This gives the User the option to allow the application to be updated.



A progress bar is shown while the Update is taking place.

Center Admin Center		_ @ ×
Welcome, System Administrato		Connected to System (DVTEL-7F3ZMW1) Logout
Edge Devices	Camera 1 - 192.168.50.52 (QuasarHDIPCamera) - 6	P Apply S Undo All I Help
Home ♣ Camera Settings → Inpu 2.	192.168.50.52 - Port 1	Action Buttons
Sidebar System	3. Settings Page	
Cameras		
Gamera 1 - 172.20.17.10	Show OSD	
Camera 1 - 192.168.50.5 Users	Video Settings Picture Settings PTZ Motion Detection	
A >	Resolution 1920x1080 - Frame Rate 12 -	
Rules & Alarms	Advanced	
•		
Security	Bitrate 933 Rate control mode Constant bit rate	
	Key frame interval 6	
	Quality 5	
	Enable recorded stream	
	Enable Panoramic Lens Configuration	

4 General Screen Layout

Horizon/Meridian Admin Center screens normally include the <u>Sidebar</u>, an <u>Item List</u>, a <u>Settings Page</u> and a <u>Help button</u>.

4.1 Sidebar

The **Sidebar** is always on the left of the Horizon/Meridian screen. It lets you access any of the system screens.



The **Home** screen is opened when the Horizon/Meridian system is started up. Clicking the Home screen button when completing a task on any other screen returns the user to this screen.



The **System** button accesses the <u>Server Settings</u>, <u>Licensing</u>, <u>Storage Setup</u>, <u>Site Setup</u>, <u>Maps</u>, <u>Maintenance</u>, <u>IT Setup</u>, and <u>Reports</u> screens.



The **Cameras** button accesses the Edge Devices screens, which include the main <u>Camera Settings</u> screen, additional camera settings screens for <u>Input</u> <u>Pins, Output Pins, Audio</u> and <u>Serial Ports</u>. The button also accesses the <u>Camera Sequence</u> screen. In all these screens, there is a list of all cameras, and a Filter box which can be used to limit the displayed list to only show cameras who's names include the text entered in the Filter box.



The **Users** button accesses the <u>Users</u> and <u>User</u> <u>Groups</u> screens.



The **Rules and Alarms** button opens the <u>Rules</u> and <u>Alarms</u> screens.



The **<u>Security</u>** button opens the <u>Edge Devices</u> and <u>Settings</u> screens.

4.2 Item List

For any selected category in the Sidebar, the available items are listed. The required item can be selected and its name is then highlighted.

Clicking a category in the Sidebar lists the available Items.

Selecting an item in the list opens the corresponding Settings Page.



🐶 Settings

4.3 Settings Page

Depending on the functions required, Settings pages have different layouts. Screens may display all details for a single item, or may include tables that show a list of items with several parameters for each item.

Add and **Edit** buttons open dialog boxes where all required parameters for the selected item can be accessed. Editable fields are indicated by a Pencil icon for direct editing by the user or a Drop-down or range when a value can be selected from a list.

The Camera Settings screen below shows how different types of fields can be updated.

	Welcome, System Administrato	r							Con	necte	d to System (I	DVTE	EL-7F3ZMW1) Logou
	😽 Edge Devices	Camera	a Settings						Apply' to	- 1	P Apply	0	Undo All- 🧕 🙆 Help
Home	🔗 Camera Settings	DVTEL	- CP-4221-201		T		save	all	changes				
	 Input Pins 	IP Addre	ess: 192.168.50.52		(h =			tt					
	 Output Pins 	Port:	1				1.1						
	🎐 Audio	Driver:	FLIR Quasar Gen I + HD				-				I		
System	Serial Ports										-		
	📑 Camera Sequence					1							
					1VE	1		1	T				
	Search 🔎				1	E		COR.			Lun		
Cameras	🛁 Camera 1 - 10.130.0.34 (Show	OSD				1			\sim			
	Camera 1 - 10.130.0.55 (Cameras	connected to Pencil icon:	Drd	pdown icon:		Dong			Sea	rch	\$	Copy Configuration
	Kamera 1 - 10.130.0.56 (.	Status	Camera Na Editable field		bose from list		Rang increase o				Bitrate Profil	е	Calculated Bitrate
Users	Gamera 1 - 172.20.17.10		Camera 1 - 10.130.0.34 (FLIR CM-	j2 🧷	Always	*	3840x2160	Ŧ	12	×	Medium	Ŧ	1900
	Camera 1 - 172.20.17.10 Camera 1 - 192.168.50.5		Camera 1 - 10.130.0.55 (FLIR CM-	52 🧷	Always	-	2560x1440	Ŧ	12	*	Medium	Ŧ	1400
▲	Gamera 1 - 192, 166,50,50,5.	1	Camera 1 - 10.130.0.56 (FC-632-ID	-F 🧷	Always	-	720x576	Ŧ	12	*	Medium	Ŧ	295
Rules & Alarms		-	Camera 1 - 172.20.17.102 (Quasar	HC 🧷	Custom	*	2592x1944	-	12	*	Medium	-	4031
Alamis			Camera 1 - 172.20.17.107 (MegaPi	xe 🧷	Custom	Ŧ	1920x1080	Ŧ	12	*	Medium	Ŧ	933
			Camera 1 - 192.168.50.52 (Quasar	HE 🧷	Custom	÷	1920x1080	Ŧ	12	*	Medium	Ŧ	933
Security													

Editing information in Horizon/Meridian Admin Center Screens

4.4 Action Buttons and Help Action Buttons

Where applicable, the system screens have up to three Action Buttons in the top right-hand corner of the screen - <u>Apply</u>, <u>Undo All</u>, and <u>Help</u>

Apply

You can make multiple editing changes on the Settings pages - these will only come into effect when you click the 'Apply' button.

Note: - Once you click the button, changes are applied and you do not have an 'Undo' Last' function.

Undo All

Where you have made changes and do NOT wish to apply them, you can click on the 'Undo All' button, and all your pending changes will be cleared, and the current values will be displayed again.

Help

The system has an extensive context-sensitive Help function. In any screen, clicking the 'Help' button opens a page of information about that screen , with specific information such as explanations about icons used, how to add, edit or delete entries, default values, cautions and notes where required.

If you want to browse the Help topics, you can also access the full Help Table of Contents to find the topic/s you want, or use the Search function to find where a specific term is used.

To open the full Help Table of Contents:

 Open the Help file by clicking on Help in the top right-hand corner of the screen.
 Right-click anywhere in the Table of Contents, and select 'Open All' to see the full Table of Contents.



Opening the full Help Table of Contents

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5 System Screens

The System icon access the following screens:

Dashboard Server Settings Licensing Storage Setup Site Setup Maps Logical IDs Maintenance IT Setup

Reports

5.1 Dashboard

The **Dashboard** gives a quick status check of the system. The information is divided into 3 panels - <u>Users</u>, <u>Cameras</u>, and <u>Storage</u>.

	Welcome, System Administra	ator		Connec	cted to System (DVTEL-7F3ZMW1) Logout
		Dashboard	Help		
Home	 Dashboard Server Settings Licensing 	1. Users		1 login connection	
	Storage Setup Site Setup	User Name	User Group	Application	IP / Hostname
System	🗳 Maps	System Administrator	Administrators	Admin Center	172.20.17.105 (DVTEL-7F3ZMW1)
Cameras	 Maintenance 	2.]	5 car	neras are recording	
Users		Cameras	1 car	nera is disconnected	4
A .		Camera Name	IP Address	Recording Mode	Status
>		Camera 1 - 172.20.17.102 (Quas	172.20.17.102	Custom	Recording
Rules & Alarms		Camera 1 - 192.168.50.52 (Quas	192.168.50.52	Custom	Recording
		Camera 1 - 10.130.0.56 (FC-632	10.130.0.56	Always	Disconnected
		Camera 1 - 10.130.0.55 (FLIR C	10.130.0.55	Always	Recording
Security		3. Storage Total defined storage: 1264 [GB] Archiving lifespan: 18 days, 3 Overwriting oldest recording A Storage utilization problem	hours and 25 minutes		Free space [29%]

The **Cameras** and **Storage** panels have an icon in the top right corner indicating the current status.

lcon

Icon Description

Status - Good

Status - Caution - check these components

1. Dashboard - Users Panel

Application	IP / Hostname
Admin Center	172.20.12.32 (WS-ROB)
Control Center	172.20.12.32 (WS-ROB)
	Admin Center

The **User Panel** displays the users who are currently logged in to the system and shows which User group they belong to, to which application/s they are currently 'logged in', and from which computer.

2. Dashboard - Cameras Panel

Status
Recording
Recording
Recording

The Cameras Panel shows the currently attached cameras and their status (Connected / Disconnected / Recording).

3. Dashboard - Storage Panel



The Storage Panel shows the current status of the Storage and the Archiving Lifespan.

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5.2 Server Settings

۷	Velcome, System Administ	rator	Connected to System (DVTEL-7F3ZMW1) Logout
Anne Home	Dashboard Server Settings Licensing Storage Setup Site Setup	Server Settings System Time Name: System D. 1 C Time Zone: Video Standard Format: PAL Default NTP Server	Curdo All Control All Contro Control All Control All Control All
System	Maps Logical IDs Maintenance T Setup	Network interface on which Cameras are installed Video r Hostnam	e: DVTEL-7F32MW1
Cameras 2 Users	Reports	Mac address: 90B11C759E86 Okada IP Address: 192 168 50 10 Net Masic: 255 255 255 0 Gateway: 192 188 50 1	
Rules & Alarms Security	3.	Mail Server Settings SMTP Address: Use secure connection (SSL) SMTP Port: 25 Sender Address: User Name: Password: Password:	
	4	Automatically attach edge devices to the system	
		Use recorded stream in Adaptive Streaming Number of days to keep audited events: 90 \$ Number of days to keep alarms: 31 \$	

The Server Settings screen is divided into 5 areas:

1. System

Set the basic Server definitions:

Name - The default name is 'System'. You can change this if required.

ID - The logical ID used for keypad navigation in the ControlCenter.

Note: If more than one system is to be connected to a Control Center, the Administrator must ensure that each System has a unique system Id.

Video Standard Format - Defines the TV standard default that will be used (NTSC or PAL).



The system will normally be configured to match the standard in your area

Time Zone - Must be set to the correct timezone for your system.

Note - This setting modifies the Windows Time Zone setting on the server.

Default NTP Server - If an external Time Server is to be used, check the box and enter the IP address of the NTP Server to be used.

2. Network



Take care to complete all mandatory fields as indicated (*).

Caution:

These parameters should be set up in consultation with the User's IT Department. Changes should ONLY be made after consulting your Support Manager. Incorrect changes can cause major problems.

Network Interface on which cameras are installed - This shows the Network Interface Card (NIC) on which automatic discovery of cameras may be implemented. (Setting made when the first-time installation wizard was run).

Hostname - Displays the hostname of the Horizon/Meridian Server. (Information only)

3. Mail Server Settings

Caution:

These parameters should be set up in consultation with the User's IT Department The Mail Server information allows the system to send email messages automatically (example - generated by Actions associated with Alarms).

SMTP Address - Enter the address of the SMTP Mail server

SMTP Port - Enter the SMTP Port Number

Sender Address -

Use SSL Settings -

Server requires authentication -

The following fields are enabled when authentication is enabled:

User Name -

Password -

Once an address for an SMTP Mail Server has been entered and saved, the system will display the current status of the connection (Connected or Disconnected)								
Mail Server Settin	gs							
SMTP Address:	smtp.exchange.com	Use secure connection (SSL)	Status: Connected 🗸					
SMTP Port:	25	Server requires authentication						
Sender Address:	user@exchange.com	User Name:						
		Password:						

4. Misc Settings

Automatically attach edge devices to the system - Horizon/Meridian runs a continuous scan on the selected NIC and discovers any cameras that have added.



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The default DHCP setting is that Horizon/Meridian will act as a DHCP server and will set up IP addresses for cameras and client workstations connected on the VIDEO NIC

Use recorded stream in Adaptive Streaming - Scales video resolution to the size of the video pane.

Number of days to keep audited events - Default 90

Number of days to keep alarms - Default 31

5.3 Licensing

The Licensing screen lists all the current License options for the system.

\$FLIR Admin Center				– 🗆 ×
Welcome, System Administr				Connected to System (FLIR-001BD881066E) Logout
Dashboard	Licensing			Help
Home Storage Setup System Maps	Activation Key 28/SL-VEU9H-KDB7K-MSPDT-HFPHX License Status Licensed Expiration Date Unlimited	Generate Request Install License		
Logical IDs	Feature	Feature Information	Usage	Availability
Maintenance	Add-on component	Unlimited	0	
Cameras Reports	Keyboard connection	Unlimited	0	
	Mobile user	Unlimited	0	
8	SDK connection	Unlimited	0	
Users	Software Service Agreement	Supported	Mat In User	Englished on 2010/2000
	User session	Unlimited	0	
A>	Video channel	24	7	Valid until 12/31/2020
Rules & Alarms	Web client user	Unlimited	0	
Security				
				Activate Windows
🕂 🕕 📄 🥵 Meridian Admin Ce.	-			Go to Settings to activate Windows. 중 중 🕷 🎫 粒 🕸 🕂 300 <table-cell-rows></table-cell-rows>
Meridian Admin Ce.		Sustany/Lisanain		

System/Licensing

1. Acquiring or upgrading a license

Note: For details of the licensing process, see the **Horizon/Meridian Release Notes**. **Summary**: The first two lines of the Licensing screen are used when setting up the Horizon/Meridian license.

An **Activation Key is** provided by the Licensing site. That Key is used to create a Request File. The Request file is used on the Activation site to create a license, and the License can then be installed on the system.

2. Expiration Date - displays the validity of the license.

3. License Features table

The table provides full details of all licenses features

Feature Information column - For each entry, this shows the maximum allowed number of licensed instances.

Usage column shows the number of instances of the component/feature that are in use.

Availability column shows the status of the expiration date of a "time-limited" feature. If an expiration date was set for a specific feature, the row will show "Valid Unit [date]". If the expiration date has passed it will show "Expired on [date]"

5.4 Storage Setup

The **Storage Setup** screen allows you to *assign* system drives for Video storage and *allocate* or *increase* the amount of disk space for video recordings

	Welcome, System Administ	rator							Connected t	to System (DVTEL-7F	3ZMW1) <u>Logo</u>
	🔵 Dashboard	Storage Se	etup						E	Apply O Undo	All 2 Help
Home	Server Settings	Drives setting	s								🗙 Delete
.1844	Storage Setup	Assigned	Drive	Used For	Total S	ze [GB]	Available	Space [GB]	Allocated	Size for Video [GB]	Video Usage
	🚠 Site Setup		OS (C:)	System	79		17		0		0%
System	Maps		DB (D:)	Database	49		47		0		0%
	5 Logical IDs	\checkmark	Video2 (Y:)	Data	465		342		464		
	Maintenance	1	Video1 (Z:)	Data	801		0		800	0	87%
Cameras	IT Setup Reports										
Users	2.	Recording life	espan settings					Sear	ch	P Copy Lifes	pan Settings to All
A ≱>		Camera				Behavior		Schedule [[Days]	Motion/Event/Alarm	/Manual [Days]
Rules & Alarms		Camera 1 - 17	2.20.17.102 (Qua	sarHDIPCamera) - 17		Maximum	Ŧ	31	*	31	*
		Camera 1 - 19	2.168.50.52 (Qua	sarHDIPCamera) - 6		Maximum	*	31	*	31	
		Camera 1 - 10	.130.0.56 (FC-632	P-ID-PAL 5269C) - 15		Maximum	*	31	*	31	*
Security		Camera 1 - 10	.130.0.55 (FLIR C	M-6204-11-I-RO K81	6302370) - 16	Maximum	*	31	*	31	*
		Camera 1 - 10	.130.0.34 (FLIR C	M-6208-11-I) - 21		Maximum	-	31	*	31	*
		Camera 1 - 17	2.20.17.107 (Meg	aPixelCamera) - 20		Maximum	*	31	* *	31	*

The Storage Setup screen is divided into two sections: <u>Drives Settings</u> and <u>Lifespan Settings</u>:

1. Drives Settings

This part of the screen lets the user choose which drives are to be used by the system, and to allocate how much space to use on each.

All drives available on the Server are listed.

Drive information provided by the system:

Drive (Letter), Used for (System/Data), Total Size (GB), Free Space (GB), Video Usage (%)

Fields accessible to the user:

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Assigned - Check the drives that are to be used by Horizon/Meridian server to store recorded video.

Allocated Size for Video - Enter the amount of disk space to allocate (in GB) for video storage. Click **Apply** for the setting to take effect.

You can increase the amount of disk space allocated for video storage on a drive by editing this field.

Caution:

Once set, the amount of space allocated for video storage on a specific drive *cannot be decreased.*

2. Lifespan Settings

These parameters set the rules for how stored video is preserved.

Behavior - All cameras connected to the system are listed, and for each camera you can set stored video to be held for **'Maximum'** or **'Minimum'** days.

- **Maximum** (Maximum length of time the recording will be kept.) The recording will always be removed after the specified number of days. It does not guarantee that it will be available for that period of time.
- Minimum (Minimum length of time the recording will be kept.) The recording will be available for that length of time - it may still remain in the system after that, until its space is required for a newer recording.

Schedule - The recording lifespan to be applied for scheduled recording

Motion/Event/Alarm/Manual [Days] - The recording lifespan to be applied when recording was triggered by one of these **Event Types** (i.e. this may be different from the recording lifespan when recording was **Scheduled**.

The recording will be available for that length of time - it may still remain in the system after that, until its space is required for a newer recording.

Notes:

1. Maximum: 365, Minimum: 1

2. There are separate parameters for video that was recorded according to a Schedule, and video that was recorded as the result of a Motion Detection trigger.

Copy lifespans settings to all - If all cameras are to use the same setting, you can complete one line and then click '**Copy Lifespan Settings to All**'.



This will copy the parameters to all cameras, but you still need to click Apply at the top of the screen in order for the changes to take effect.

5.5 Site Setup

The user can define **Sites**, and then associate one or more cameras with the Sites. This provides Control Center users with a more logical view of the system.



To Add or Edit a Site

To add a new Site, click on Add Site. The Add Site window will open. Enter the name for the new site. Return to the Site Setup screen, and drag-and-drop entities (cameras, maps, etc.) to create the structure you want.

Note: Drag till you see the 'outline' symbol

When moving an Entity to a site, hold the mouse-button and drag until you see the red 'outline' symbols on the target Site Name



To edit the Site Name, select the site you want to change and click on **Rename**. Enter the new name, click **Save** and then return to the **Site Setup** screen.

To Delete a Site

- 1. Use the mouse to drag-and-drop all entities that are associated with the Site that is to be deleted to another Site.
- 2. Select the Site to be deleted and click on Delete <a>Delete. You will be asked to confirm that you want to delete the Site. If there are any entities still associated with the Site, the system will not allow the deletion.

5.6 Maps

This screen allows the user to add **map files** (backgrounds on which cameras can be 'placed', so that their positions can be displayed). These can be site diagrams saved as graphic files, or Web pages (i.e. external URLS such as Google Maps) (*require user licensing).

'Maps' can also refer to files and URLs that may be used to display information to Control Center operators.

Examples are given below.



Add Maps Dialog

The system will open a Windows Dialog box.

Select the graphics file containing the image to be used (jpg, png, bmp or gif), and click Open.

) SO 🖉 🖉 🗢 🕑	(C;) 🕨 M	laps_and_Instructions	- - ↓	Search Maps_and_Ins	tructions 🔎
Organize 🔻 New	folder			:== ▼	
🧾 Desktop	^ 1	Vame		Date modified	Туре
鷆 Downloads		Loading_Bay1_files		02/01/2014 02:09	File folder
🔛 Recent Places		📕 RandD_Map		02/01/2014 02:09	File folder
🚝 1 ikusuise	=]] RandD_Map1_files		02/01/2014 02:09	File folder
词 Libraries 📔 Documents		🔄 RandD_Map1.jpg		31/01/2013 23:49	JPEG imag
🌙 Music					
📔 Pictures					
🛃 Videos					
🜉 DVTEL-7F3ZMW1					
(C:) 20 🊵					
👝 SQL (D:)					
💼 BACKUP (F:)					
💼 Video1 (Z:)					
			III		
F	-ile name	:	•	Image Files (*.jpg;*.pn	g;*.bmp; 🔻
				Open	Cancel

Once a background image is chosen, the **Add Map** screen will open.





Cameras may be 'dragged' onto the map to indicate their position.



Right-clicking on the camera icon opens a dialog box which allows additional options to be activated.

Option	Control Center Display
Show name	Camera Name is displayed when the Map is viewed
Show field o	^f The apparent field of view of the camera is added to the icon.
view	Note - the icon of the camera as it appears on the Map is only an indication - this does not change the actual position, orientation or field of view of the camera.
Display video	PHovering the mouse over the camera icon opens a small preview window on the tile displaying the map
Use bright caption	Camera Name is displayed in bright font - suitable for dark backgrounds (e.g. Geographic Maps)
Remove	Removes this map from the list of Maps

Add Web Page Dialog

Add We	b Page		×
Name			
URL			
		💾 Save	X Cancel

The web page dialog is used to add files or URLs that can be displayed in the tiles of the Control Center.

- If an external website is to be displayed, then enter use its regular URL in the URL field(e.g. <u>https://maps</u> . . etc).
 If a local file is required, erase the '<u>http://</u>' in the URL field, replace with the full file path (e.g. C:\Folder\subfolder\filename.filetype).
- 2. Enter a Map name in the Name field and click **Save**.

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5.7 Logical IDs

All entities in the system have Logical lds assigned to them. Horizon/Meridian allows the user to use the Logical lds that apply to Cameras, Tile Layouts and Monitors. This screen allows the user to see the current Logical lds assigned to these entities and to edit them if necessary.

	Welcome, System Administr	ator		Connected to System (DVTEL-7F3ZMW1)	<u>Logout</u>
	Dashboard	Logical IDs		P Apply O Undo All	Help
Home	Server Settings	Log	ical IDs family Cameras and tile layouts	Ŧ	
	Licensing	Name	Туре	Logical ID	
	Storage Setup Site Setup	Cornercam - Cam 5 - 10.130.0.34 (FLIR CM-62(🧷	Camera	5	*
System	Maps	Office PTZ Cam 3 - 192.168.50.52 (QuasarHDIF 🧷	Camera	1	^
	5 Logical IDs	Camera 1 - 10.130.0.56 (FC-632-ID-PAL 5269C)	Camera	3	*
	Maintenance	Build Workstion Cam 4 - 172.20.17.102 (Quasa 🧷	Camera	2	*
Cameras	IT Setup Reports	Quas II Cam 6 - 10.130.0.55 (FLIR CM-6204-11- 🧷	Camera	4	*
	E Reports	Front Door Fixed Cam 2 - 172.20.17.107 (Mega 🧷	Camera	7	*
Users Users Rules & Alarms Security					

The user selects which family of entities to display using the pulldown box at the top of the screen.

Logical IDs family	Cameras and tile layouts	Ŧ
	Cameras and tile layouts	
	Monitors	

Entity names can be edited in the **Name** column, and Logical lds can be incremented/decremented using the control in the **Logical Id** column.

Logical lds for each type of entity must be unique - if the user selects a Logical ld that is already in use, the system will not allow the value to be saved, and will display a message indicating that another value must be selected.

Logical lds are shown in the Control Center and in the Web Client as numeric values following the Entity name.

In the Control Center the user can use either the workstation keyboard or a CCTV Keyboard to control a display. Details are provided in the Control Center Help file.

5.8 Maintenance

The Maintenance links allow the user to export log files and to do manual or scheduled backups of the database.

	Welcome, System Administr	ator	Connected to System (DVTEL-7F3ZMW1)	<u>Logout</u>
	Dashboard	Maintenance		Help
Home	Server Settings	Server Logs		
۲	📑 Licensing 📼 Storage Setup 💑 Site Setup	Export Logs		
System	Maps Logical IDs	Database		
Cameras	Maintenance Mintenance Reports	Backup Now Scheduled Backup No Schedule * Backup applies only for the system configuration settings		
Users		Cloud Services		
Rules & Alarms		Service: Inactive		
Security				

Server Logs

To Export Logs - click on the **Export Logs** button **Logs**.

The system will open a Windows File window, pointing at the default location, and giving a file name 'Horizon/MeridianLogs.zip'. Edit if necessary, and click **Save**.

Database

To Backup the Database immediately - click on the Backup Now button **Backup Now**.

The system will open a Windows File window, pointing at the default location, and giving a file name 'Horizon/MeridianDB.zip'. Edit if necessary, and click Save.

To Create/modify the Schedule for database backups

1. Click the Scheduled Backup button Scheduled Backup. The system will open the Schedule backup window.

Schedule backup	×
☐ Enable schedule backup 12:00 AM ☆ ● Sun ○ Mon ○ Tue ○ Wed ○ Thu ○ Fri ○ Sat	💾 Save 🗙 Cancel

2. Check 'Enable schedule backup' to initiate scheduled backups.

- 3. Set the time for backups to be made, and check the day/s on which the backup should be run.
- 4. Click the **Save** button.

The system will display the time, date, and path for the Database backups.

e.g. 'Next schedule on: Sunday, May 19, 2013 ,12:AM' 'Server Backup Path: C:\Program Files\[System Designation]\Directory\Backup'

Cloud Services

Users must have registered for FLIR's Cloud Services and must have a current in-force SSA Agreement.

Please consult your Service Representative for further details of using FLIR's Cloud Services.

5.9 IT Setup

The system uses several external interfaces. The IT Setup screen initially shows the system's default networking parameters.

Caution:

Alternative values may be set where necessary. All networking related parameters should only be set up after consultation with your FLIR Systems, Inc representative and your IT Department

I Logical IDs Secured Web Server 443 URL: https://DVTEL-7F32MW1/webclient I Secured Web Server Video Transmission (RTSP) 5554 Image: Control Contro Control Control Control Control Contro Control Contro	Welcome, System A	Iministrator	Connected to System (DVTEL-7F32MW1)
S Web Server Video Transmission (RTSP) 5554 Image: Content of the server Video Transmission (RTSP) Mobile Viewing Application 1116 Image: Content of the server Video Transmission For External Connections 8080 Settings Secured Video Transmission For External Connections 8081 Image: Content Application 80 Image: URL: http://DVTEL.7F32MW1/clientportal Server Serial Port OFF Settings	 Server Settings Licensing Storage Setup Site Setup Maps Logical IDs Maintenance 	Component Description Allow External Connection (From WAN) Web Server	Port Options 7777 Finable 80 URL: http://DVTEL-7F32MW1/webclient 443 URL: http://DVTEL-7F32MW1/webclient
	🛟 IT Setup	Mobile Viewing Application Video Transmission For External Connections Secured Video Transmission For External Connections	1116 Enable 8080 Settings 8081 URL: http://DVTEL-7F3ZMW1/clientportal
	8.		

The system displays all the current network port settings used by the Horizon/Meridian server for the features listed.

Allow External Connection (From WAN)* - Default: Disabled - Allows client workstations running Horizon/Meridian Admin Center and/or Control Center applications to connect from the Internet.

Web Server - used to support connections from Web Clients (information only, cannot be changed)

Secured Web Server - port allocated for TLS communication

Web Server Video Transmission (RTSP)* - used to stream video to web clients.

Mobile Viewing Application* - Default: Enabled - Allows connections from Horizon/Meridian-supported mobile video applications.

Video Transmission For External Connections* - used for sending video to client workstations and Horizon/Meridian-supported mobile applications connected from the Internet.

Secured Video Transmission for External Connections - port for encrypted transmissions to Web Clients

Note: For setting up TLS , see Server Settings / IP Security

Settings - Clicking on the Video Transmission Settings button opens a Dialog box allowing the user to change the default quality settings for external video streaming.

Automatic Client Applications Distribution - used by Horizon/Meridian when updating Client Application software (information only, cannot be changed)

Server Serial Port - used for connecting external systems such as Access Control, Building Management. After selecting a COM port using the drop-down box, the Settings button will be enabled.

Click on the Settings button to select the communication protocol and parameters to be used.

* **Important Note:** Enabling access to the internal network (LAN) from the Internet (WAN) requires advanced networking knowledge. Changes to these settings should only be made in consultation with the IT department and your support representative.

After making any change, the user must click the **Apply** button.

The Undo button will clear all unsaved changes and re-display the stored settings.

After applying changes, press the **Print** button to print out all the information.

Clicking on this button opens the Windows Print dialog window, select a printer and press "Print".

Keep the printed list available for IT and Support staff.

5.10 Reports

The Reports screen allows the user to produce a range of reports either using simple default settings, or, depending on the report, setting specific parameters.

Click to show/hide instructions for first-time access to the Report Generator



The first time this screen is opened, the user must accept the Adobe End User License Agreement (See below).

If the user declines the terms of the Agreement, the Report Generator will be disabled.

To reinstate the EULA and accept the conditions, use the File Explorer to navigate to the folder

"C:\ProgramData\FLIR\VMSInstallCache\..[Current version].. \ISSetupPrerequisites\",

and run the program "AdbeRdr11002_en_US\AdbeRdr11002_en_US.exe"

Wel	lcome, System Administr	ator		Connected to System (DVTEL-7F3ZMW1) Logo
Home System	Dashboard Server Settings Licensing Storage Setup	Report Settings Report Settings Time range Past week From Wednesday, August 23, 2017 E3250 PM Time range Filter F		Connected to System (DVTEL-7F32MW1)
		Generat	e	🖨 Print 💾 Save As 🖂 Send To-

The available reports are listed in the **Report Type** drop-down.

Report Type	Parameters	Filter Parameters Available
Alarms History	Time Range Last 24 hours, Past Week, Past Month.	By Column and Text
	Manual selection – Enables the user to enter a custom time range.	
User Logo	nTime Range	By Column and Text
History	Last 24 hours, Past Week, Past Month.	
	Manual selection – Enables the user to enter a custom time range.	
SignOff	No Parameters. Produces a report which can be signed off between Integrator and User, giving summary of the Installation.	
System Status	No Parameters. Produces a System summary.	

The << symbol allows the display area to be enlarged.

Click on **Generate** to create a Report.

Once a report has been generated, the report will be previewed on the screen, and the **Print** and **Save As** fields will be enabled. Provided the **Mail Server Settings** were set in the **Server Settings** screen, the **Send To** field will also be enabled.

Welcome, System Administ	rator			Connected to System (DVTEL-7F3ZMW1) <u>Logout</u>
Dashboard	Reports				Help
Home Porver Settings	Report Settings « Report type Alarms History •			Alarms History Report 2017014 02:19:27 To: 2701/2014 02:19:27 Generated: 27701/2014 02:19:27	-
System 🖳 Maps	Time range	Alarm type Came Alarm # 2755	ra Connectio	on Lost ; Priority 3 - Medium	
🔶 IT Setup	Past week	Date	Time	Action	
		22/01/2014	23:59:25	Cleared by Directory server in Directory at DVTEL-713ZMW1 with text: Trippered by Camera 1 - 192,163,50,56 (Altibude - Quesar HD IP Camera) - 20 due to The system cannot	
Reports	From	22/01/2914	21:59:26	Triggered by Camera 1 - 192,168.50.56 (Altibude - Quasar HD IP Camera) - 20 due to The system cannot communicate with Camera 1 - 192,166.50.56 (Altibude - Quasar HD IP Camera) - 20 event	=
Cameras	Monday, January 20, 2014 02:19 🗘	Alarm # 2754			
	To	Date	Time	Action	
	Monday, January 27, 2014 02:19 🗘	20012014	15:12:03	Cleaned by Directory server in Directory at DVTEL-7F32NW1 with test: Triggered by Camid Quasar HD - 192.166.85.92 due to The system cannot communicate with Camid	
		20012014	15:06:32	Triggered by Can4 Guasar HD - 192.168.56.52 due to The system cannot communicate with Can4 Quasar HD - 192.168.50.52 event	
Users Rules & Alarms		ed once rep	port	Alarms Type Statistics 2 Camera Convectors Load	
		en genera	neu		*
	Generate			🖶 Print 📄 Save As	Send To
- **Print** Opens a standard Windows Print dialog, allowing the report to be printed.
- **Save As** Opens a File Explorer dialog, allowing the report to be saved.
- **Send To** Opens an Email dialog. Users with addresses stored in the system may be selected, and/or full email addresses of others may be added.

6 Cameras Screens

The Cameras button accesses the Edge Devices screens

Edge Devices - this screen summarizes all Edge Devices connected to the system. More details about Edge Devices are shown in the following screens:

- <u>Camera Settings</u>
 - o <u>Input Pins</u>
 - o Output Pins
 - o <u>Audio</u>
 - o Serial Ports
- <u>Camera Sequence</u>
- <u>Camera List</u>

6.1 Edge Devices

The **Edge Devices** screen provides a complete list of all devices currently connected to the system, shows whether they are currently 'attached', and gives their basic device details.

After making any change, the user must click the **Apply** button.

The Undo button will clear all unsaved changes and re-display the stored settings

	Welcome, System Administrator						Conr	nected to System (DVTEL-7	F3ZMW1) <u>Logo</u>
Home	Edge Devices 1. Camera Settings Input Pins	Edge Dev	n Network		<mark>2.</mark>	+ Add Device Man	3. ually Sceplace I		
***	Output Pins	-	s connected to the				_	Sea	
System	Audio Serial Ports	Attached	IP Address	Vendor	Model	MAC Address	Firmware	Driver	Status
System	Camera Sequence		10.130.0.34	FLIR S	CM-6208-11-I	00-1B-D8-80-3	fs20170614NSZ	FLIR Quasar Gen II	Connected
			10.130.0.55	FLIR S	CM-6204-11-I	00-1B-D8-80-C	fs20160518NSZ	FLIR Quasar Gen II	- Connected
	Search 🔎		10.130.0.56	FLIR S	FC-632-ID-PAL	00-40-7F-41-8	TX V2.02.P03-3c	FLIR Core Product Line	- Disconnec
Cameras	🖷 Build Workstion Cam 4		172.20.17.102	DVTEL	CF-4251-00	00-D0-89-0E-C	dt20131218NSA	FLIR Quasar Gen I +	- Connected
	📂 Camera 1 - 10.130.0.56 (.		172.20.17.107	DVTEL	CM-4221-10	00-D0-89-0A-1	dt20120914NSA	FLIR Quasar Gen I +	- Connected
	📂 Cornercam - Cam 5 - 10		192.168.50.52	DVTEL	CP-4221-201	00-D0-89-0A-B	dt20150213NSA	FLIR Quasar Gen I +	- Connected
Users Rules & Alarms Security	 Front Door Fixed Cam 2 Office PTZ Cam 3 - 192 1 Quas II Cam 6 - 10 130.0 							<u>6.</u>	
	<mark>8.</mark>		mation: 6 video ch DVTEL CM-4221-10			limited available ch	nannels	1	Discovery Settings
		-	es capabilities supp						
		📼 1 video			el +1 input pin				
Cameras/Edge Devices									

1. Rescan Network

Horizon/Meridian regularly scans the system's default network (defined in the <u>Server</u> <u>Settings</u> screen) and adds any new devices it finds. If the rescan icon is turning, this means a scan is in progress, and you may need to wait until it is complete before new devices are shown.

Pressing the **Rescan Network** button causes a rescan to start immediately.

Note: Devices that are not on the default network will NOT be discovered by the automatic scan, and must be added manually (see below)

2. Adding Devices Manually - See the separate topic Adding New Devices

3. Replacing Devices

- a. Select the camera to be replaced,
- b. Click **Replace Device**. A window will open showing all cameras available (i.e. having the same Vendor and Model).
- c. Select the camera that you wish to use instead of the current one, and click **Save**.

Note: Where a replacement camera has already been set with the same IP address as the selected camera and connected to the system, it will be discovered by the automatic rescan and its entry in the Replace Device screen will be in bold font.

4. Device Credentials

Device Credentials for	192.168.50.53 🗙
User Name	admin
Password	••••
Confirm Password	••••
	💾 Save 🗙 Cancel

Clicking on this button shows the **Device Credentials** to be used by the system for the connecting to the selected device. These stored credentials can be modified and saved.

Note: This does not change the credentials in the device - it only affects the stored credentials that the system uses when connecting to the device.

5. Delete

Clicking on the **Delete** button will delete the currently selected device. You will be asked to confirm that you want to delete it.

Caution: Deleting a device from the Edge Device list will completely remove the device itself and all recorded material associated with it.

If you subsequently rediscover the same device (Manually or with the automatic rescan), *no* previously-recorded material can be recovered.

If, instead of Deleting, you uncheck the 'Attached' box, the entry will remain in the table, and recordings will still be accessible.

6. Discovery Settings

This button opens the **Discovery Settings** dialog box where you can specify the type of device scanning to be performed (Proprietary or ONVIF), and the vendor/model ranges to be included in the scan. The scan settings and credentials that will be used for the vendor/model range of the selected (highlighted) device are shown.

Discovery Settings	×
Discovery Method Proprietary	
Plugins	FLIR - Settings
 Select All Arecont Axis Bosch FLIR IQeye Mobotix Panasonic Pelco Dentition 	Product Settings - Common Settings - Use common password for automatic discovery Password
	💾 Save 🗶 Cancel

Checking the **Select all** check-box will cause the system to scan for all possible vendor/model ranges. Normally, one should check only those Plugin entries that need to be scanned. This will make the scanning process quicker..

When the **FLIR** check-box is checked, this allows scanning for all FLIR Core Camera Products, as indicated by the **Common Settings** entry in **Product Settings**

Note: FLIR Recorders are an exception to this rule - FLIR Recorders cannot be discovered automatically, and user should use the Add Device Manually optin to discover them.

If the user wishes to make changes to the stored settings for a product group, the appropriate entry in the Plugin list can be selected and the stored settings for that product or group will be displayed.

Similarly, by highlighting an entry in the Plugin list, the Plugin Settings for that Product Group are shown, and the user then has the opportunity to enter any special values as required. These may include **User Name**, **Password**, **Port**, **Begin/End Port**, etc.

After pressing **Save**, the settings will be used for the automatic scanning process. Devices that have been added will be shown when the next scan is completed. If required, you can click on **Rescan Network** to force a rescan to start.

7. License information

The system shows the total number of channels for which the system is licensed, and the number of channels currently being consumed.

8. Details for:

(Model and IP address of selected camera)

The Name, IP Address, and supported device capabilities for the selected device are displayed.

6.1.1 Input Pins

The Input Pins screen shows a list of all input pins on attached devices.

	Welcome, System Administrato					Connected to	System (DVTEL-	7F3ZM	W1) <u>Logou</u>
	🐨 Edge Devices	Input Pins					Apply O U	ido All	Help
Home	Camera Settings						Se	arch	م
	 Input Pins 	IP Address	Vendor	Model	Port ID	Name	Normal State	Cu	rrent State
	 Output Pins Audio 	10.130.0.34	FLIR Systems	CM-6208-11-I	1	Input pin device 1 - 10.130.0.34 (🥒	Open	- 🗸	Normal
System	 Serial Ports 	10.130.0.55	FLIR Systems	CM-6204-11-I-RO	1	Input pin device 1 - 10.130.0.55 (🥒	Open	- 🗸	Normal
	📑 Camera Sequence	10.130.0.56	FLIR Systems	FC-632-ID-PAL	1	Input pin device 1 - 10.130.0.56 (🥒	Open	- 2	Unknown
		10.130.0.56	FLIR Systems	FC-632-ID-PAL	2	Input pin device 2 - 10.130.0.56 (🧷	Open	- 2	Unknown
Cameras	Search P	172.20.17.102	DVTEL	CF-4251-00	1	Input pin device 1 - 172.20.17.10; 🥒	Open	- 🗸	Normal
cunicius	Build Workstion Cam 4	172.20.17.107	DVTEL	CM-4221-10	1	Input pin device 1 - 172.20.17.10	Open	- 🗸	Normal
•	 Camera 1 - 10.130.0.56 (. Cornercam - Cam 5 - 10 Front Door Fixed Cam 2 Office PTZ Cam 3 - 192.1 	192.168.50.52	DVTEL	CP-4221-201	1	Input pin device 1 - 192.168.50.5 🧷	Open	- 🗸	Normal
Users		192.168.50.52	DVTEL	CP-4221-201	2	Input pin device 2 - 192.168.50.5 🎤	Open	- 🗸	Normal
Users		192.168.50.52	DVTEL	CP-4221-201	3	Input pin device 3 - 192.168.50.5 🥒	Open	- 🗸	Normal
A >	🖷 Quas II Cam 6 - 10.130.0	192.168.50.52	DVTEL	CP-4221-201	4	Input pin device 4 - 192.168.50.5 🥒	Open	- 🗸	Normal
Rules & Alarms Secunty									

Cameras/Edge Devices/Camera Settings/Input Pins

The IP Address, Vendor, Model and Port Id are indicated.

The default Name is shown - this can be edited if required.

A drop-down menu in the **Normal Status** field allows the pin to be set to **Open** (NO) or **Closed** (NC). Depending on this setting, the adjacent field indicates the current state of the pin.

After making any change, the user must click the **Apply** button.

The Undo button will clear all unsaved changes and re-display the stored settings.

6.1.2 Output Pins

The **Output Pins** screen shows a list of all output pins on attached devices.

Camera Settings Input Pins Address Vendor Audio LIP Address Vendor LIP Address V	Model					
Output Pins	Model			Se	arch	
10 130 0 3/ ELIR Svs		Port ID	Name	Normal State	Cu	irrent State
Audio	ems CM-6208-11-I	1	Output pin device 1 - 10.130.0.34 🧷	Open	- ?	Unknow
Serial Ports 10.130.0.55 FLIR System	ems CM-6204-11-I-RO	1	Output pin device 1 - 10.130.0.55 🧷	Open	- 🗸	Normal
Camera Sequence 10.130.0.56 FLIR Syst	ems FC-632-ID-PAL	1	Output pin device 1 - 10.130.0.56 🧷	Open	- ?	Unknow
10.130.0.56 FLIR Syst	ems FC-632-ID-PAL	2	Output pin device 2 - 10.130.0.56 🧷	Open	- 2	Unknow
Search P 10.130.0.56 FLIR Syst	ems FC-632-ID-PAL	3	Output pin device 3 - 10.130.0.56 🧷	Open	- ?	Unknow
Build Workstion Cam 4 10.130.0.56 FLIR Syst	ems FC-632-ID-PAL	4	Output pin device 4 - 10.130.0.56 🥒	Open	- ?	Unknov
Camera 1 - 10.130.0.56 (. 10.130.0.56 FLIR Syst	ems FC-632-ID-PAL	5	Output pin device 5 - 10.130.0.56 🧷	Open	- ?	Unknow
Cornercam - Cam 5 - 10 10.130.0.56 FLIR Syst	ems FC-632-ID-PAL	6	Output pin device 6 - 10.130.0.56 🧷	Open	- ?	Unknov
➡ Front Door Fixed Cam 2 ➡ Office PTZ Cam 3 - 192.1	CF-4251-00	1	Output pin device 1 - 172.20.17.1 🧷	Open	- 🗸	Normal
Quas II Cam 6 - 10.130.0 172.20.17.107 DVTEL	CM-4221-10	1	Output pin device 1 - 172.20.17.1 🧷	Open	- 🗸	Normal
192.168.50.52 DVTEL	CP-4221-201	1	Output pin device 1 - 192.168.50. 🧷	Open	- 🗸	Normal
192.168.50.52 DVTEL	CP-4221-201	2	Output pin device 2 - 192.168.50. 🥒	Open	- 🗸	Normal

Cameras/Edge Devices/Camera Settings/Output Pins

The IP Address, Vendor, Model and Port Id are indicated.

The default Name is shown - this can be edited if required.

A drop-down menu in the **Normal Status** field allows the pin to be set to **Open** (NO) or **Closed** (NC). Depending on this setting, the adjacent field indicates the current state of the pin.

After making any change, the user must click the **Apply** button.

The Undo button will clear all unsaved changes and re-display the stored settings

6.1.3 Audio

The Audio Ports screen shows a list of all attached Edge Devices with Audio Ports.



Cameras/Edge Devices/Camera Settings/Audio

The IP Address, Vendor, Model and Camera Name are indicated.

The user can select which **Audio Port** on the camera is to be used (1,2).

Clicking a box in the **Enable Audio** column activates/deactivates the audio port for the selected device.

Clicking the box in the Heading row will enable/disable all audio ports.

After making any change, the user must click the **Apply** button.

The Undo button will clear all unsaved changes and re-display the stored settings

6.1.4 Serial Ports

The **Serial Ports** screen shows a list of all Serial Ports on attached devices.

w	/elcome, System Administrator							Conne	ected to Systen	n (DVTEL-7F3ZM	IW1) <u>Log</u> e
	🐨 Edge Devices	Serial Ports							P Apply 🕤 Undo All		
Home	🖂 Camera Settings									Search	م ر
	 Input Pins 	IP Address	Serial Port	Usage		Communicatio	Protocol	Baud Rate	Data Bits	Stop Bits	Parity
6	Output Pins Audio	172.20.17.103	RS4XX	None	Ŧ	~	-	-	-	-	-
System	Serial Ports	172.20.17.103	RS232	None	Ŧ						
	📑 Camera Sequence										
Cameras	Search P										
	Build Workstion Cam 4 - 172.20.17										
	Build Workstation Cam 3 - 172.20.1										
	Cornercam - Cam 5 - 10.130.0.34 (F.										
	 Front Door Fixed Cam 2 - 172.20.17 Office PTZ Cam 3 - 192.168.50.52 (
	 Onice P12 Cam 5 - 192. 168.50.52 (Develpers Cam 6 - 10.130.0.55 (FLI) 										
▲	Develpera cam o - 10.150.0.55 (i El										
Rules & Alarms											
Admis											
Security											
	_	un o vo o /E davo		-							

Cameras/Edge Devices/Camera Settings/Serial Ports

The IP Address and Serial Port type (RS232, RS4xx, ...) are indicated.

The user can select the required values for the <u>Serial Port Parameters</u> listed below. Serial Port parameters Usage - (None, Keyboard, PTZ) Communications - (RS-232, RS422 4 wire/2-wire, etc) Protocol - (DVTEL, Pelco, American Dynamics) Bitrate - (75, 110, , 912600) Data Bits - (7,8) Stop Bits - (1, 2) Parity - (None, Odd, Even)

After making any change, the user must click the **Apply** button.

The **Undo** button will clear all unsaved changes and re-display the stored settings.

6.1.5 Adding New Devices

The **Add Device Manually** button allows you to add devices that are not on the default network. Clicking the button opens the **Add Devices** dialog box, where you can specify an IP address and choose a Vendor/model range.

The default credentials for the selected vendor/model range are shown.

Add Device M	anuall					
					2	Help
IP address	0					
Vendor	Dvtel	Quasar a	nd HD	Series		
User Name		Admin				
Password		••••				
Port		80				*
			•	🖌 ОК	X (ancel

The dialog box allows the user to enter an IP address and select a Vendor/model.

The default login information for the device is displayed, depending on what is required for the particular device.

6.2 Camera Settings

Camera Settings - This screen is used to view and configure the most common settings for all the cameras currently attached to the system.

The table shows all the cameras currently attached to the system, their current status, and their most important settings. You can select a particular camera in the table, preview its output, and edit its basic parameters.

To view and/or edit more detailed camera parameters, select the camera in the item list.



Cameras/Edge Devices/Camera Settings

<u>Selected</u> <u>Camera</u>	Preview Window	<u>Apply/Undo</u>
<u>Table of All</u> <u>Attached</u> <u>Cameras</u>	Selected Camera Details	Copy Configuration Button
<u>Calculated</u> <u>Bitrate</u>	No. of Streams	Estimated Archive Lifespan

1. Selected Camera

The **Camera Name**, **IP Address**, and **Driver Details** for the selected camera are shown.

2. Preview Window

The preview window shows the selected camera's output **Show OSD** - When this box is checked, OSD information will be shown for this camera.

3. Apply / Undo

After making any change, the user must click the **Apply** button.

The Undo button will clear all unsaved changes and re-display the stored settings

4. Table of all Attached Cameras

Clicking on any camera in the list will 'select' it.

5. Selected Camera Details

The selected camera's details and preview will be shown, and the parameter fields in the table can be edited. Drop-downs indicate where other parameters may be selected. Only values that are valid for the selected parameter are shown. Where parameters are disabled (grayed out) this indicates that no other choices are available

Status - Cameras can be in the following states:

Connected 📼, Disconnected 🗡, or Recording 👎

(see full List of possible Camera States)

Camera Name - The system assigns a default name when the camera is discovered. You can edit this field to put in a camera name of your choice

Recording Mode - Choose Off, Always, Motion or Custom.

(For Custom, see Recording Schedule)

(For Cameras with Basic Analytics enabled, see Basic Analytics

Resolution, **Frame Rate** and **Compression Quality** - pull-down lists give the values that are available. The options available depend on the characteristics of the individual cameras.

6. Copy Configuration Button - This opens the <u>Copy Configuration</u> dialog box, where you can take all or some values from the selected camera, and apply them to one or more other connected cameras in the system

7. Calculated Bitrate - The system shows the bitrate that each camera will use, based on the selected Resolution, Frame Rate and Compression Quality.

8. No. of Streams - Indicates if the camera is supplying separate streams for **Live viewing** and for **Recording**. Characteristics of the recorded stream are available as a tooltip, shown by hovering the mouse over the **No. of streams** entry for the relevant camera. **Note**: The **No. of Streams** column is only shown if one or more cameras have the Dual Stream feature enabled.

9. Estimated Archive Lifespan - The system displays the calculated storage capacity based on the amount of storage allocated and the camera parameters that have been chosen

6.2.1 Recording Schedule

To create or update a **Recording Schedule** for a Camera:

- 1. Select **Cameras** in the **Sidebar**, select **Camera Settings**, and select the required Camera from the table.
- 2. In the Recording Mode column, use the drop-down to select Custom
- 3. Click on the 'Custom' link
- 4. This **Recording Schedule** dialog box will open.

The Recording Schedule dialog is used to set up or modify time patterns during which Recording will be activated.



Each camera can have its own schedule.

The Recording Schedule is indicated by the color of the blocks in the schedule graph. All cameras are initially set to the default '**Continuous**' schedule - as shown by the continuous green blocks.

To Create a new Schedule

- 1. From the Device drop-down, select the camera for which the schedule is being created.
- 2. Choose the Selection Mode radio button for the type of Recording required.

Continuous - This is the default - Initially, all blocks in the schedule show 'Continuous'. If necessary, after you have added other modes, you can always go back and reset some of the schedule to 'Continuous'.

Motion - The camera will record when Motion is detected (including the pre- and postevent recording - see <u>Camera Motion Settings</u> parameters of the <u>Camera - Detailed</u> <u>Settings for Motion Detection, Video, Picture and PTZ</u> screen)</u>

Off - The camera will not record

- Use the mouse to click and drag through times and days during which the selected mode will apply - the color in the selected blocks will change to indicate the selected mode, 'Continuous', 'Motion' or 'None'.
- 4. If required, you can then set a different Recording Mode Using the radio buttons), and add more blocks in the schedule.
- 5. When the schedule is complete, click OK.

To Edit an exiting Schedule

- 1. Select the camera for which the schedule should be edited by clicking on it in the list of cameras.
- 2. Edit the blocks in the schedule.

3. When you have made the required changes, click OK.

6.2.2 Copy Configuration

The **Copy Configuration** dialog box allows the user to copy one or more settings from an existing camera to additional camera/s.

Copy Configuration	×
	 Help
Source	
Camera Cam3 Axis - 192.168.50.51 *	
Which parameters would you like to copy?	
🔽 Stream Settings	
Resolution: 'VGA'.	
Frame Rate: "12".	
Quality: 'Medium'.	
Recording Mode: 'Always'	
Destination	_
	_
Select cameras to apply copy configuration	
All Search	
Cam1 Panasonic QAArea - 10.70.90.134 (WV-SC385) - 18	A
Cam2 ioitrk101 QA_Hi - 192.168.50.40 (ioibox trk101) - 16	
Cam4 Quasar HD - 192.168.50.52	
v ok ∎	Cancel

Cameras/Edge Devices/Camera Settings/Copy Configuration

Source

When you enter the Copy Configuration dialog box, the selected camera in the Camera settings screen will appear as the Source. You can select a different Source from the drop-down list of cameras.

The list of **Stream Settings** parameters (Resolution, Frame Rate, and Quality), and **Recording Mode** shows those parameters that will be copied from the source camera. The parameters making up the list will vary according to the vendor/model of camera selected, and the values for those parameters as set in the source camera will be shown. Check whether to copy the **Stream Settings** parameters and/or the **Recording Mode** setting. If you do not select a parameter, then the Destination cameras' default value for that parameter will be used.

Destination

The Destination field lists all the attached cameras that are capable of using the selected source parameters.

All / Search Filter - The **All** check-box allows you to select all the listed cameras. Otherwise you can check just those cameras that you want to use the selected camera's parameters.

Entering text in the **Search Filter** will reduce the list of available cameras and show only those possible Destination cameras whose Names have text that corresponds to the text entered.

Note when dealing with cameras that may have their Dual Stream capability enabled.

When copying parameters from a source camera that only has **one** stream running, the destination cameras will have their second stream **disabled** by the Copy action.

When copying parameters from a source camera that has **two** streams running, the destination cameras will have their second stream **enabled** by the Copy action.

Click **OK** to apply the chosen settings to all the selected cameras.

6.2.3 List of possible Camera States

Status - Camera status in the table can be shown as one of the following:

IP Fixed Camera	IP PTZ	Description
		Connected
—	N	Recording
1	1	Disconnected
	N.	Recording failed

Encoder & Camera	Encoder & Camera	Description
0 _1	97	Has warning (connection from camera to encoder is lost)
•	94	Recording has warning (connection from camera to encoder is lost)

6.3 Camera Sequence

A Camera Sequence allows several cameras to be displayed one after the other in a single tile of the Control Center.



The **Camera Sequence** screen displays a list of the Camera Sequences that have already been configured in the Item list.

The cameras making up the selected Camera Sequence are displayed in a table in the Camera Settings Page, with each camera showing the time for which it will be displayed (the 'dwell time'). A preview window shows the Camera Sequence as it will appear in a Control Center tile.

To Add a new Camera Sequence

1. Click the Add Camera Sequence button • Add Camera Sequence . The Add Camera Sequence window will open.

Add Sequence				×
Sequence				Help
*Name Alternate QA Cameras				
Camera List				
Cam5 ioi - 192.168.50.53	Cameras	Dwell Time [Sec]	PTZ Pres	et
Cami Axis - 192. 166.50.51	Cam1 Panasonic QA	5	*	~
Cam2 ioi_trk101 QA_Hi - 192.1E Cam1 Pana: Cam4 Quasar HD - 192.160-50. Camera 1 - 192.168.50.54 (Altit	 sonic QAArea - 10.70.90.1	34 (WV-SC385) - 18		
*Mandatory Fields			💾 Sav	e 🗙 Cancel

- 2. Enter a Name for the Camera Sequence.
- 3. Add or remove cameras by using the left \leq and right \geq arrows.
- 4. Set the **Dwell Time** (and Preset parameters if required).
- 5. Arrange the order of the cameras in the sequence using the up $\overline{}$ and down $\overline{}$ arrows.

When you have made the required changes, click on the **Save** button ^{B save}.

To Edit a Camera Sequence

- 1. Select the sequence to be edited by clicking on it in the Camera Sequence List.
- 2. Click the Edit button **C** and **C**. The **Edit Sequence** window will open.

Edit Sequence							×
							3 Help
Sequence							
*Name QA Cameras Sequence							
Camera List	_					^	~
🗀 Cam5 ioi - 192.168.50.53		Cameras	Dwell Time [Sec]		PTZ Preset		
Cam3 Axis - 192.168.50.51		Cam2 ioi_trk101 QA	5	*			-
Cam1 Panasonic QAArea - 10.7		Cam4 Quasar HD - 1	5	*			~
Cam4 Quasar HD - 192.168.50.							
📑 Camera 1 - 192.168.50.54 (Altitu	>						
*Mandatory Fields					💾 Save	×	Cancel

- 3. You can make the following changes:
 - a. Edit the Name of the Sequence.
 - b. Add or remove cameras by using the left s and right arrows.
 - c. Change the Dwell Time or Preset parameters.
 - d. Change the order of the cameras in the sequence using the up and down arrows.
- 4. When you have made the required changes, click on the Save button Bave.

To Delete a Camera Sequence

- 1. Select the Sequence to be deleted by clicking on it in the Camera Sequence List.
- Click the **Delete** button **X** Delete.
 You will be asked to confirm that the Sequence is to be deleted.

6.4 Camera List

The Camera List shows all the cameras that are currently attached to the system.



When a camera is selected, the Camera Details screen is shown. Clicking on each of the tabs (<u>Video Settings</u>, <u>Picture Settings</u>, <u>PTZ</u>), displays the corresponding settings.

Note: If the camera selected is not a PTZ camera, the PTZ tab will be disabled.

6.4.1 Camera - Detailed Settings Tabs for different Camera Capabilities The detailed settings of the selected camera are shown.



Cameras are initially set with default parameters. Drop-downs indicate where other parameters may be selected. Only parameters that are valid for the selected parameter are shown. Where parameters are disabled (grayed out) this indicates that no other choices are available.

1. Camera Name

The top of the screen shows the selected Camera Name and the regular Horizon/Meridian buttons allowing the user to **Apply** or **Undo** any changes that have been made, and to access the **Help** system.

2. Preview Window

The Preview Window shows the live image from the selected camera.

The paragraphs below provide more information

Available Tabs

The following Settings Tabs present the corresponding parameters for the selected camera. The selection of tabs shown will vary according to the capabilities of the camera.

Video Settings

Picture Settings Thermal Settings PTZ Settings Motion Detection Settings Analytics Settings

Enable Panoramic Lens Configuration

This tab allows activation of panoramic ("Fisheye") lens capability, when a suitably-equipped camera (such as the Quasar Gen 2), is used or where the associated camera is fitted with a suitable lens..

Enable Panora	amic Lens Configuration	🗹 Enable Pan	oramic Lens Configuration	Enable Panor	ramic Lens Configuration
Brand	Quasar 🔻	Brand	Sentry *	Brand	ImmerVision •
Position	Ceiling	Position	Ceiling	RPL Number	A0**V -
Anti-aliasing	Enabled on stop 🔻	Calibrate		Position	Wall
				Anti-aliasing	Disabled •

Depending on the type of camera, the applicable list of parameters is shown.

Parameter	Description
Brand	Quasar, Sentry, Immervision
RPL Number	Select the appropriate Lens Model
	(Only shown if Immervision)
Position	Ceiling,
(Orientation of camera)	Ground,
	Wall (not available for Sentry)
Anti-Aliasing	Enable/Disable (Not available for Sentry)
Calibrate	(Only required for Sentry)

6.4.1.1 Video Settings

By default, the Video Settings tab is always selected when going to the Camera Screen. If one of the other tabs has been selected, the user can return to this tab by clicking on it.

Video Settings	Picture Settings	PTZ	Motion Detection	
Bitrate Profile Medi	x1080 •	Frame Rate 12 Calculated Bitrate 933	¢ Kbps	
Advanced Compression Bitrate Rate control mode Key frame interval Quality	H264 933 Constant bit rate 6 5			
Brand Qu Position Ce	stream Lens Configuration Jasar × eiling × nabled on stop ×			

Note:

Resolution, **Frame Rate** and **Compression Quality** - Default settings are assigned by the system when the camera is discovered. These should generally not be altered.

Calculated Bitrate - This value is provided by the system.



When enabled, this check-box indicates that the selected camera supports dual-stream output. This allows different resolutions to be set for the two streams, so that, for example, a high-definition image can be used for live viewing, and a lower-resolution image (which will consume less archive space) can be stored.

Checking the box opens a second set of Camera Settings parameters, where the characteristics of the recorded stream can be set.

Video Settings		PTZ			
Live Stream			Recorded Stream		
Resolution 1920×10 Quality Medium		me Rate 12 🗘	Resolution D1 Quality Medium		rame Rate 12 🗘
			Compression		
			Bitrate	1845	
			Rate control mode		
V Enable recorded	l stream				

Saving your Settings

Select the required settings, and then click Apply.

Once the settings have been applied, then the details can be seen in a tooltip that is available in the **Camera Settings** screen, by hovering the mouse over the **'No. of Streams'** entry for the relevant camera.

Status	Camera Name	Recording Mod	e	Resolution		Frame Ra	ite	Quality		Calculated Bitrat	e No. of Streams
-	Cam1 Panasonic QAArea - 10.; 🧷	Always	Ŧ	1280x960	Ŧ	12	*	Medium	Ŧ	1295	1
	Cam2 ioi_trk101 QA_Hi - 192.1I 🧷	Always	*	D1	*	12	*	Medium	Ŧ	1345	1
-	Cam3 Axis - 192.168.50.51 🧷 🧷	Always	*	VGA	Ŧ	12	*	Medium	Ŧ	565	1
V	Cam4 Quasar HD - 192.168.50. 🧷	Always	Ŧ	1280x102+	Ŧ	12	*	Medium	Ŧ	590	2
	Cam5 ioi - 192.168.50.53 🧷 🧷	Always	•	4CIF	*	12	* *	Medium	*	1575	Recorded stream det
-	Cam6 Blue1080p - 192.168.50.4 🥒	Always	*	1920x108(-	12	A V	Medium	-	1845	Resolution: 1280x102 Frame Rate: 12 Quality: Medium

6.4.1.2 Picture Settings

Video Settings	Picture Settings	PTZ	Motion Detection		
Brightness		% Contrast			
Wide dynamic range	Low	 Rotate image 	0 -		
Advanced					
Saturation		Hue	50	Sharpness	26%
Day/Night mode	Smart 💌	Noise reduction	Medium	White balance	Auto -
Exposure mode	Automatic -	Gain	50	Exposure area	
Input filter		Mode switch			
Back light com	pensation Mirror	image			

Setting up the best picture

Brightness, Contrast - These two settings are generally adjusted by the user - move the sliders to obtain the best picture in the Preview window.

Default settings are assigned by the system when the camera is discovered. These should generally not be altered.

Other parameters

Wide Dynamic range - This parameter is only enabled for cameras that support the feature.

Rotate Image - Set this parameter to give correct orientation to the picture.

Advanced Settings - Checking this box enables access to the Advanced Settings.

Saving your Settings

Select the required settings, and then click Apply.

6.4.1.3 Thermal Settings

Note: Note	e: This Tab is	only sl	shown when the selected Entity is a Thermal Camera
Video Settings	Thermal Settings	PTZ	Analytics
Color Palette Digital Detail Enhanc AGC AGC ROI	ement Auto Histogram Custom	¥ 	Gain 70

The parameters that may be set are:

Color Palette - The dropdown allows a choice of stored color tables that define different ways to display the Thermal image. Each camera model may have its own set of color palettes. The user should select the palette most suited to the particular situation.

Security cameras will most often display scenes using palettes that provide white-onblack or black-on-white images, while for display of industrial images, the color alternatives might be more useful.

The examples below show how a particular camera (in this case, a PT-334 Thermal Head) display the same Thermal scene using different lookup tables.









Lookup Table 1

Lookup Table 2



Lookup Table 12

DDE - (Digital Detail Enhancement) refers to a built-in capability to enhance the thermal images, making it easier to show transitions between different temperature ranges.
Auto or Manual - Auto setting allows the settings made in this Tab to be used, while Manual allows the settings made through the camera's web page to be retained.

DDE Gain - Slider setting. When DDE is set to Automatic, the user can change the DDE Gain setting here without using the camera's Web Page.

AGC - (Automatic Gain Control): Each camera model may have its own set of AGC settings. The user should select the setting most suited to the particular situation. Typical settings are **Manual**, **Linear**, **Plateau**, **Once Bright**, **Auto Bright**, etc.

AGC ROI - (AGC Region of Interest) - Similar to AGC settings. Each camera model may have its own set of AGC ROI choices. Depending on where the camera is situated, an appropriate ROI should be selected. (For example, where part of the camera's field of view includes the sky, one would normally use a setting that excludes this part of the image).

Typical settings are **Custom** (allowing the user to 'paint' the desired ROI), **Full Screen**, **Horizontal OPT**, **Sky OPT**, **Center 75 Percentage**, **Center 50 Percentage**, etc.

Saving your Settings

Select the required settings, and then click Apply.

Note on use of ioi Analytics with Thermal Cameras: (See <u>Analytics Settings</u> for setup of FLIR Thermal Cameras with Analytic Capabilities)

Setup of ioi Camera Analytics:

The Analytics capabilities of ioi cameras are integrated into the Horizon/Meridian system. For these to be activated, Analytics rules must be defined through the ioi cameras' web pages. This refers to ioi cameras with built-in Analytics only. The Latitude capability of binding TRK101-series Analytic encoders with other IP cameras is **not** currently supported for cameras attached to Horizon/Meridian.

Arming/Disarming Analytics:

Camera Analytics are Armed and Disarmed through the Control Center Context Menu.



Analytics Armed - Disarm using Context Menu

Analytics Disarmed - Arm using Context Menu

6.4.1.4 PTZ Settings

The PTZ Tab provides control over all the Pan Tilt Zoom functions of applicable cameras.

Video Settings	Picture Settings	PTZ	Motion Detection
✓ PTZ Settings			
	Tel HD PTZ al ports are available.	×	Focus + + + E
Communication Serial Address	1		
	None 4		Speed
Stop Bits	1		
Bitrate	75		Preset 1 🔹 🔄 Go 🖌 Set 🛃 Rename
			Pattern 1 🔹 🕨 Run 🕒 Rec 🖉 Rename
			Auxiliary 🕒 Start 🗖 Stop

PTZ Settings

On Discovery, if the camera is recognized by the system as a supported PTZ camera, then the following fields are all set to the Camera's correct default settings.

In the PTZ configuration page of a unit with a motorized lens, a dedicated motorized lens driver should appear under "PTZ Protocol" and the following buttons will be enabled: zoom in/out, focus, iris, auxiliary, lock and menu.

No seria	Picture Settings Tel HD PTZ al ports are available.	PTZ *	The following fields are shown: PTZ Settings Check-box PTZ Protocol Serial Port Settings Communication Serial Address
Serial port settings	\$		Parity
Communication			Data Bits
Serial Address	1		Stop bits
Parity			Bitrate
Data Bits			
Stop Bits			
Bitrate			

Caution: The user should only use these fields when the camera's PTZ functions are controlled through a Serial Port interface (as with an analog PTZ interfaced through an encoder).

Drop-downs indicate where other parameters may be selected. Only values that are valid for the selected parameter are shown. Where parameters are disabled (grayed out) this indicates that no other choices are available.

PTZ Control

The PTZ Control panel allows the user to set up the PTZ Camera's orientation and field of view, store different combinations as '**Presets**', set up automatic '**Patterns**', and run the **Auxiliary** mode.



PTZ Control buttons

The PTZ Controls allow the following functions, while in PTZ Control Mode (i.e. the 'Menu' button is *not* pressed.)

	Normal Mode
Field	('Menu' not selected)
Iris	
+	Opens the Camera Iris
Auto	Activates Camera's Auto Iris
-	Closes Camera 's Iris
Direction Arrows	Moves Camera in the indicated direction
+	Zoom in
-	Zoom Out
Focus	
+	Focus further
Auto	Activates Camera's Auto Focus
-	Focus nearer
Lock (toggle)	Locks the camera - other users cannot operate the PTZ functions
Home	Sends the Camera to its Home position

Speed - Sets the speed of movement when the Direction arrows are selected by the mouse

Preset Drop-down - The Camera can be set to defined orientations called **Presets**. Select a **Preset** in the drop-down for the following functions:

Go - Move the camera to the preset orientation

Set - after moving the camera with the direction arrows and zoom controls, clicking on **Set** will store the current orientation as the current preset value.

Rename - Allows a name to be defined for the current Preset.

Pattern Drop-down - The camera can store a set of movements as a **Pattern**, which can be invoked when required. Select a **Pattern** in the drop-down for the following functions:

Run - When a Pattern has been defined, clicking on Run will cause the **Pattern** to be carried out.

Rec - Clicking on **Rec** starts the recording of a pattern.

(The Rec button changes to Stop.)

The Preview window indicates how much of the camera's **Record buffer** is used while the recording is being made.



The speed, arrow and zoom controls can be used to create a **Pattern**.

Clicking on **Stop** ends the recording of the pattern.

Rename - allows the pattern to be named.

Auxiliary Drop-down - Allows selection of Auxiliary functions where installed (e.g. Wipers, Heaters)

Start - Start the selected auxiliary

Stop- Stop the selected auxiliary

PTZ Menu Mode

When the **Menu** button is pressed, the PTZ's internal menu is displayed in the **Preview** window.



The Controls below are activated for controlling the Menu. All other buttons and fields in the PTZ Control panel are disabled.

Menu Mode ('Menu' Selected)

Direction Arrows

Left and Right buttons allow selection of individual values Select - activates the selected Menu item

Up and Down arrows allow navigation through the menu items

Back - Returns to the previous Menu selection

Saving your Settings

Select the required settings, and then click Apply.

6.4.1.5 Motion Detection Settings

Motion Detection Settings

The Motion Detection Settings area lists any zones that are already defined, and allows the user to set new detection zones and change the detection parameters if necessary. After making any change to the Motion Detection zones or settings, click on **Apply** to make the change, or **Undo** to revert to the previous settings.

	Motion Detection
Add Zone X Delete Name Motion Zone 1	Sensitivity 60% Threshold 20% Pre-motion recording 30 \bigcirc (Sec) Post-motion recording 30 \bigcirc (Sec) Create bookmark upon motion on

Motion Detection Zones

By default, Motion Detection Zone 1 defines the full picture area.

Editing a Motion Detection Zone

Any Motion Detection Zones that are defined for this camera will be indicated by numbered blocks in the Preview Window.

Click on the zone in the list to select it. The corresponding zone will be highlighted with a red outline in the Preview window.

The sides of the zone can be changed by hovering the mouse over the edge to get the double-arrow symbol, and the edge can then be dragged larger or smaller.

Hovering the mouse inside the zone will give a four-headed arrow, and then whole zone can then be dragged to a different position.

Adding a Motion Detection Zone

Clicking on the Add Zone button adds a new entry to the list of Motion Detection Zones, and indicates the area covered with a corresponding number and a shaded block outlined in red showing the extents of the zone.

You can edit the name given to the zone by clicking on the name, typing the new description, and clicking Apply.

Deleting a Motion Detection Zone

Click on the zone to be deleted to select it, and then click on the Delete button. You will be asked to confirm that you want to delete the zone.

Note. There must always be at least one Motion Detection zone defined.

Changing Motion Detection Settings

Sensitivity, Threshold - Default settings are assigned by the system when the camera is discovered. These should generally not be altered.

Pre - and Post- Recording (Seconds) - For cameras that are set to record based on Motion Detection, the system records continuously, and when a motion detection event occurs, then a clip is created including pre-event and post-event recording as defined by these parameters.

Create Bookmark upon motion on - Check this box if bookmarks are required for all motion events.

Saving your Settings

Select the required settings, and then click Apply.

6.4.1.6 Analytics Settings

The Analytics Tab allows the user to set up Intrusion Zones, virtual Tripwires and Masking Areas to be monitored by the Analytics capability of the camera.

For information about cameras that support Basic Analytics (Ariel Gen III, CF-6308, etc) see <u>Basic Analytics</u>

Video Settings Therma	I Settings PTZ	Analytics			
Armed Disarmed Clear	1				
Use configuration from	stem Web				
Create Rule	Rules	Rules Settings	Depth Calibration		
Intrusion Area	Intrusion Area 4	Intrusion Area 4	Manual		
Tripwire	Tripwire 1 Tripwire 2	Humans 🖌	 Show Manual Depth Show Rules 		
↓ Masking Area	Tripwire 3	Vehicles	General Settings		
		Object	Sensitivity 50		
			Show Object Detection All Boxes		
			Show Lines		
		Telete	Show Regions		

The following facilities are available:

Analytics Status

The user can set the status of the Analytics in the camera (Just as this can be done from the Control Center using the Context Menu)

Armed/Disarmed

Change the status of the Analytics.

Clear

Clear all Analytics data, events, alarms (not Settings).

Configuration Source

Analytics settings created and stored in the system are accessed when this switch is set to **System**. When set to System, the parameter fields are enabled, and the user can define or change settings. These settings are saved on the Horizon/Meridian system.

When set to **Web**, the screen will show the current settings that were created using the camera's Web interface. These cannot be edited in this page, and are therefore shown as **Disabled**.

Create Rule

The user can create three types of Analytic Rules

Clicking on an icon allows the user to use the mouse to create an outline of the required type in the viewing window.

Each left click adds a point to the shape. Right-clicking completes the shape. (For Intrusion Areas and Masking Areas, which are closed shapes, this is done by connecting the last drawn point to the first.)

The completed shape is shown as a shaded area and given the next available name for that type of rule. (The camera supports up to 4 Rules of each type.).

The Masking Area Rules are always shown at the end of the list.

The user selects a rule in the **Rules** column, and then the characteristics of each individual rule can be set in this **Rules Settings** column.

A selected rule may be deleted by clicking the trash icon.

lcon	Туре	Rule Description/Rule Setting		
	Intrusion Area	The boundary of the Intrusion area reacts to anything crossing it either direction.		
		The rule may be given one or more 'classified types' (Human , Vehicle , Object) to use as a filter. The camera will attempt react only to the selected classified types, based on size.		
+	Tripwire	In addition to the criteria above,the user can select a 'direction' to monitor.		
		Both Right Left Both		
▦	Masking Area	Masking areas are used to define areas that should be excluded from the analytics.		

Depth Calibration Tab

- Autom The Cameras determines the depth of the atic scene Clicking the relearn button clears the previous Depth Calibration
- Manua Allows the user to create a calibration plane and runs it again (Can take several using the mouse
- Disabl No Depth Calibration is used ed

General Settings Tab

This tab allows the user to set how the Analytics will be displayed when the camera is viewed.

Rules	Depth Calibration	General Settings			
	Sen	sitivity 0	1	00 50 🕂	
	Sho	w Object Detection	Boxes 🗸		
		Clas	Boxes ssified Boxes Boxes		
	V :	Show Regions			

Show Object Detection

* No boxes: doesn't show a bounding box around moving targets, even if they trigger an event

* Classified boxes: shows a black bounding box around targets that have been classified, for example Human. When it triggers an event it will change to white

* All boxes: shows a black bounding box around all moving targets, it changes to white when it triggers an event

Show Lines:

When selected it will show tracking lines, when not selected it does not.

Show regions:

When selected, draws regions in black (when a region or tripwire is active it changes to white)

When not selected, shows no regions

As a general recommendation, we suggest enabling drawing Regions and Classified Boxes.

Saving your Settings

Select the required settings, and then click Apply.

6.4.1.6.1 Basic Analytics

Certain Models of FLIR cameras come with a 'Basic Analytic' feature which allows those cameras to detect analytic events and trigger actions as a result.

The analytic feature uses the same functionality that is used for motion detection and can therefore only support the use of one of these features at a time. I

There are several scenarios which will be effected by this behavior.

- 1. Selecting "Motion recording" from the wizard while some cameras have analytics rules enabled
- 2. Enabling analytics with a configured motion zone
- 3. Setting a new motion zone while analytics are enabled

Supported Models:

CF-6308-00-0, CM-6308-P1-I, CM-3304-XX, CM-3308-XX, CB-3304-XX, CB-3308-XX

Selecting "Motion Recording" from the Wizard:

Setting a motion zone on a camera with enabled analytics rules (set via the camera web page) will disable the analytics rule. Therefore, if a new system is being configured with cameras that have Basic Analytics rules configured and enabled, and the Administrator selects "motion recording" from the wizard, the system will set those cameras to recording "Off" by default so to not disable their analytics configuration with a motion zone.

The user can then choose to change those settings from Admin Center after the Wizard is complete.

These cameras will NOT have the usual default motion zone configured on all other cameras. If the user choose to change recording mode to "motion" they will be prompted with the following message:

Warning		×
Â	No motion detection zones have been configured on the following cameras: Camera 1 - 10.130.0.55 (FLIR CB-3308-11-I T72451320) - 2 A motion zone must be created in order to continue, would you like to automatically create a default zone on the above cameras? Please note that creating a motion zone will disable the analytics.	

Analytics Tab:

Analytics are configured via the cameras webpage, however, there is a basic user interface for enabling/disabling and arming/disarming a camera that supports basic analytics.

Video Settings	Picture Settings	PTZ	Motion Detection	Analytics
Enable analytics				
Armed Disarmed				
Use configuration fr	om System Web			
Analytics	rules can only be activa <u>Ca</u>	ited and configured via th Imera web page	ne camera's web page:	

If a motion zone is configured and the user attempts to Enable Analytics, they will be prompted by the following warning:

Warning		×
1	Enabling analytics will delete all motion detection zones, disabling motion detection. Are you sure you want to continue?	
	Yes No	

By clicking 'Yes' the motion zone will be disabled immediately (prior to saving) and the Analytics will be enabled upon saving.

By clicking 'No' the dialog box will close and no changes will have been made

If no motion zone is configured, the analytics rule will be enabled and no warning will be shown

Note:

Prior to enabling a rule from Admin Center, the analytics rule has to be configured via the web page.

Motion Tab:

If the camera's analytics are enabled and the user attempts to configure a motion zone, the following message will appear:



By clicking 'Yes' the analytic rule from the camera will be disabled, and the user will continue with their motion detection configuration

By clicking 'No' the dialog box will close and no changes will have been made

If no analytic rule is enabled on the device, the motion detection settings will remain as normal and no warning will be shown

Note: Changing Analytics or motion detection configurations using the camera's web page without deleting the settings from the VMS, may result in those changes being discarded when returning to the VMS.
7 Users Screens

Users are managed using the following screens

Users - this screen lists all the Users who are registered in the system and allows users to be edited. New Users are added using the <u>Add Users</u> screen.

User Groups - this screen shows the 3 default User group definitions, and any groups others added, using the <u>Add User Group</u> screen.

7.1 Users

This screen lists all the Users who are registered in the system, allows users to be edited, or added using the <u>Add Users</u> screen.



Edit a User

- 1. Select a User by clicking an entry in the User screen.
- 2. Click on the Edit button . The Edit User screen opens, with the selected User displayed.

Edit User		×
User		
*Full Name	System Administrator	Picture
*User Name	ADMIN	
*Password	Enter password	
*Confirm Password	Enter password	
*User Group		
Email Address		
Mobile Phone		
*Mandatory Fields		💾 Save 🗶 Cancel

- 3. Edit the information as required.
- 4. Click **Save** to return to the User screen.

Add User

- 1. Click Add User Add User in the User screen. The Add User window opens.
- Add the User information.
 Note: Take care to complete all mandatory fields as indicated (*).
- 3. Click Save Bave to return to the User screen.

Delete a User

- 1. Select a User by clicking an entry in the User screen.
- 2. Click on the Delete button <a>Edu. You will be asked to confirm that you want to delete the user.

7.2 User Groups

This screen shows the 3 default User group definitions, and allows more User Groups to be defined using the <u>Add User Group</u> screen.

	Welcome, System Admir	nistrator		Connected to System (DVTEL-7F3ZMW1) Logout
	Lusers	User Groups		Help
Home	🔏 User Groups	Add User Group		Celete -
. باللاد		User Group Name	Description	Group Members
		Administrators	Has all privileges	System Administrator
System		Supervisors	Has full monitoring privileges, not authorized to access Admin Center	Rob Davis
		Operators	Has partial monitoring privileges, not authorized to access Admin Center	
Cameras				
Users				
Rules &				
Alarms				
Security				

Edit User Group

1. Click on the User Group to be edited in the User Group screen.

Add User Group		×
*Group Name Site 1 Operator PTZ Priority 1 Description Operator actions only, site 1. No export.		
Privileges	Camera Permissions	
 All Live Operations PTZ Control Operate PTZ Configure PTZ Lock PTZ Manual record Add and edit tile layout Search and Export Playback Export 	Automatically allow viewing newly adder Available cameras Cam1 Panasonic QAArea - 10.70.90.134 Cam2 ioi_trk101 QA_Hi - 192.168.50.40 r	d cameras Viewable cameras Cam5 ioi - 192,168,50,53 Cam3 Axis - 192,168,50,51 Cam6 Blue1080p - 192,168,50,54 Cam4 Quasar HD - 192,168,50,52
*Mandatory Fields		💾 Save 🛛 🗙 Cancel

Note: The settings for the **default User Groups** can be displayed using the Edit button, but they are fixed - they can not be edited. (**Administrators**, **Supervisors**, **Operators**)

- 2. Edit the required information.
- 3. Click the **Save** button ^{Bave} to Save and return to the User Groups screen.

Add User Group

1. Click the Add User Group button • Add User Group in the User Group screen. The Add User Group window opens.

Add User Group						×
Group Name	Site 1 Operator	PTZ Priority 1	<u>^</u>			
Description	Operator Actions, only Site 1	cameras. No export.				
Privileges		C	Camera Permissions			
🔺 📃 All			🖌 Automatically a	llow viewing newly adde	d camera	as
🔺 📃 Liv	e Operations		Available cameras			Viewable cameras
⊿ 🗌	PTZ Control		Cam1 Panasonic	QAArea - 10.70.90.134		Cam5 ioi - 192.168.50.53
	🗸 Operate PTZ		Cam2 ioi_trk101 0	A_Hi - 192.168.50.40 i		Cam3 Axis - 192.168.50.51
	Configure PTZ					Cam6 Blue1080p - 192.168.50.54
	Lock PTZ				>	Cam4 Quasar HD - 192.168.50.52
	Manual record					
	Add and edit tile layout				<u></u>	
	arch and Export					
	Playback					
			<			
	Export	T				
*Mandatory Field	S					💾 Save 🗙 Cancel

- 2. Add the User Group information.
- Note: Take care to complete all mandatory fields as indicated (*).
- 3. Click Save Bave to return to the User Group screen.

Delete User Group

- 1. Select a User Group by clicking an entry in the User Group screen.
- 2. Click on the Delete button <a>L <a>L

Note: You cannot delete a User Group if it still has members. Before trying to delete a User Group, make sure you have transferred all Users in that group to alternative User Groups.

8 Rules and Alarms Screens

Alarms are definitions of how the system should respond to **Events**. **Alarms** can trigger live video and/or recording displays on Control Center consoles, and Alert messages to be sent to associated individual users and/or user groups. These messages must be responded to and 'cleared' by the recipients.

<u>Rules</u> are definitions of what **Events** can be recognized by the system, and how the system must respond - by raising Alarms, changing the state of switches, sending messages, etc.

Alarms define what video information must be brought to a user's attention. The <u>Alarms</u> screen lists all the defined alarms, and additional alarms are defined using the <u>Add Alarm</u> screen.

8.1 Alarms

Alarms define what video information must be brought to a user's attention. The <u>Alarms</u> screen lists all the defined alarms. Additional alarms are defined using the <u>Add Alarm</u> screen.

	Welcome, System Admini	istrator		Connected to System (DVTEL-7F3ZMW1) Logout
	A 41	Alarms		Help
Home	Alarms	+ Add Alarm		Celit Kolete
عاقد		Alarm Name	Priority	Alarm ID
		look for Analytics Actions	1 - Critical	1
System		Front Door Intrusion	1 - Critical	2
Cameras Losers				
Rules & Alarms Security				
		Rules and	I Alarms/Alarms	

To add a new Alarm

1. Click **Add Alarm** to add a new alarm to the system. The **Add Alarm** dialog is presented.

			×
General Settings			Help
*Name	0 Hours 0 Min	Priority 1 - Critical •	
		Seconds Post Alarm 30 Seconds	
Cameras			*Recipients
Available Cameras Cam5 ioi - 192.168.50.53 Cam3 Axis - 192.168.50.51 Cam6 Blue1080p - 192.168.5 Cam1 Panasonic QAArea - 1 Cam2 ioi_trk101 QA_Hi - 192 Cam4 Quasar HD - 192.168.5	Associated Cameras	View Live View Playback	 Administrators Supervisors Operators System Administrator BarryK JohnS RobD
*Mandatory Fields			P Save Cancel

Add Alarm dialog box

2. Fill in the required fields.

General Settings

Provide a **Name** to the alarm and set its priority (**Critical**, **High**, **Medium**, **Low** or **Very Low**).

Select whether the alarm should be automatically cleared or not.

If **Yes**, also set the time for the system to wait before automatically clearing the alarm (Hrs, Mins, Secs, range 1 sec - 24Hrs.)

Selecting '**Record cameras associated with this alarm**' will create a recorded clip for all the cameras which are associated with this alarm.

The clip duration will be for the selected number of seconds before and after the trigger event.

Cameras - Table showing all 'Attached' Cameras, and which are 'Associated' with this Alarm

Select camera/s that will be associated with the alarm by clicking on them in 'Available' column, and clicking the arrow to move them to the 'Associated' column.

(Deselect cameras by clicking them in the 'Associated' column and clicking the reverse arrow)

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For the selected cameras, you can choose whether live video will be displayed ('**View Live**', selected by default) and/or playback ('**View Playback**') will be displayed. For playbacks, the time range should be specified (Pre- and Post-alarm).

Recipients

Select **users** and/or **user groups** who will receive the alarm when it is triggered.

Note: User groups (icon) are displayed in bold type

Users (icon) are displayed in regular type

When all required fields have been entered, click **Save**. The system will return to the 'Alarm' screen, and the new/changed Alarms will appear in the list of Alarms.

To Edit an Alarm

From the **Alarms** screen, select an alarm and click **Edit**, or double-click on the alarm.

The **Edit Alarm** dialog box will open showing the information for the selected alarm. Make the required changes and click **Save**.

To Delete an Alarm

From the **Alarms** screen, select an alarm and click **Delete**. You will be asked to confirm that you want to remove the alarm.

8.2 Rules

<u>Rules</u> are definitions of what **Events** can be recognized by the system, and how the system must respond - by raising Alarms, changing the state of switches, sending messages, etc.



Rules and Alarms/Rules

The **Rule** screen lists all Rules that are defined in the system. Select a Rule by clicking it with the mouse, and a summary of that rule is shown in the bottom of the screen.

For more information: <u>Add a Rule</u> <u>Schedule a Rule</u>

Add a Rule

1. Click Add Rule Add Rule in the Rules screen. The Add Rule window opens.

Add Rule	×
	Help
Rule Name	
Event	
Select the event that will trigger the action Alarm	Υ
Select Alarm Any	Ψ
Action	
Select the action Change output pin state to normal	v
Output pin Output pin device 1 - 10.40.1.27 (Altitude - Quasar HD IP Camera) - 2	Ψ.
*All fields are mandatory	P Save Cancel

- Add the Rule information. The fields structure and contents varies depending on the Event Type and Action required. (See <u>Events Types</u>, below).
 Note: Take care to complete all fields.
- 3. Click **Save** ^{Bave} to return to the Rules screen.

Schedule a Rule

1. Once a Rule is defined, click on the Rules Scheduling button to open the Rules Scheduling screen.

By default, the schedule will be set to Always.

Rules Schedul	e																																														×
																																												l	2	Help	,
Server Room	M	otion				Ŧ	1																																		Sele	ectio	n M	ode			
Copy to all r	ule	5																																							0	O		iuou		-	
		0		1	2	3		4	5		6	;		7		8		9		10)	1'	1	1	2	1	3	1	4	1	15	1	6	1	7	1	8	1	19	 20		21		22	23	3	
	0	30	0	30					0 3	30		30	0	30	0	3	0 () 3	0			0									30													30			
Sunday																																															
Monday																																															
Tuesday																																															
Wednesday																																															
Thursday																																															
Friday																																															
Saturday																																															
	4																																													Þ	
																																									8	Sav	e	×	Car	ncel	

- 2. In the Selection Mode panel, select Continuous or None, and use the mouse to click-anddrag that selection for the required hours/days.
- 3. When complete, click Save Bave to return to the Rules screen.

Delete a Rule

From the **Rules** screen, select a rule and click the **Delete** button **X** Delete.

You will be asked to confirm that you want to delete the Rule.

Event types (Sources)

Event Type

Alarm Camera Input Pin Output Pin User Storage <u>Time Trigger</u> Analytics



Events that are Time Triggered

Events that are Triggered by Camera Analytics

The Analytics capabilities of **ioi** cameras are integrated into the Horizon/Meridian system. For these to be activated, **Analytics rules** must be defined through the **ioi** cameras' web pages, and the camera/s must be set to **Armed** (using the Control Center Context Menu).

9 Security Screens

The Security Screen has two tabs: <u>Edge Devices (Security)</u> <u>Password Policy (Security)</u> <u>Settings (Security)</u>

9.1 Edge Devices (Security)

The Edge Devices Security screen allows the user to view and modify the security settings for each of the connected devices.

	Welcome, System Admin	nistrator					Connected to System (DVTEL-7F32MW1)
•		Edge D	evices				 He
Home	Edge DevicesSettings	Search	٩				🔒 Set Security Mode 🛛 🔑 Change Password
		Status	IP Address	Secured	Certificate Expiration	Default Password Changed	Last Action Status
		0	10.130.0.34	No		No	
stem		0	10.130.0.55	No		No	
			10.130.0.56	No		No	
		0	172.20.17.102	No		No	
meras		0	172.20.17.107	No		No	
		0	192.168.50.52	No		No	
Rules & Jarms							
ecurity							
		Details	for: FLIR System:	s CM-6208-1	I1-I, IP: 10.130.0.34		
		🌻 Un	it has security war	mings	Warning 1 Ur	ls: it does not have a user-defined	d password
_					🌻 w	arning. After Firmware upgrade	, camera certificate must be reloaded
		Doute	<u>e web page</u>				

Security Action Buttons

Set Security Mode
Set Certificate
Password

Click here to open/close notes on Security Action Buttons

Each of these **Security actions** can be applied to one or more entries in the table. The actions are only enabled if they are available for the device or devices selected. i.e. If more than one entry

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Search Box

The Search Box will filter the list of displayed devices by any information entered in this field.

Device Security Settings

The table shows the following fields:

Status:

• Icons indicate the security status of the device:

Icon Description

- 🤣 Unit connection is secured, but does not have trusted certificate
- Onit is fully secured (Secured connection and trusted certificate)
- Unit has security warning (see list below)
- 🔚 Unit is unsecured
- 局 Unit is blocked
- Unit is inaccessible

IP Address:

Secured: Yes/No

Date of Certificate Expiration

Default Password changed : Yes/No - this highlights for the user any devices still using their original password.

Note:

It is STRONGLY recommended that these passwords be changed.

Last Action Status: Allows the user to see if an action was successfully completed.

Selected Device

The highlighted line shows which device/s in the table is/are currently selected.

Selected Device ID

Where a single device is selected, its Make, Model and IP address are displayed.

Device Security Warnings

Any warnings that apply to the selected device/s are shown.

9.2 Password Policy (Security)

Password Policy

This panel allows you to create rules regarding passwords across the system. Settings include the following:

Setting

Description

MinimumWhen set to a value other than 0, enforces a password policy that newpasswordpasswords must be greater than or equal in length to the value entered.

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Setting length	Description
Minimum lowercase characters	When set to a value other than 0, enforces a password policy that new passwords must contain a greater than or equal number of lowercase alpha characters than the value entered.
Minimum uppercase characters	When set to a value other than 0, enforces a password policy that new passwords must contain a greater than or equal number of uppercase alpha characters than the value entered.
Minimum numeric characters	When set to a value other than 0, enforces a password policy that new passwords must contain a greater than or equal number of numeric characters than the value entered.
	When set to a value other than 0, enforces a password policy that new passwords must contain a greater than or equal number of non-alphanumeric characters than the value entered.
Prohibited Passwords	This is a password disallow list that can be added to include invalid passwords. Forbidden passwords can be listed here to prevent users from using them if they are considered to pose a security risk, to be too common, or known to be exposed and no longer secure.

9.3 Settings (Security)

This screen is divided into two sections;

o Establish and enforce TLS Security Policy for Edge Devices,

o Enable TLS Security for Web Client connections.

1. TLS Security Policy for Edge Devices

Click to show/hide the list of currently-supported facilities

Establishing and applying these facilities requires support in the system and from the edge devices themselves. The table below shows the current facilities supported.

Product Type	Discovery method	TLS support	Confirm User-set Password	Change Password
FLIR cameras	FLIR Plug-in	Yes*	Yes	Yes**
Arecont, Axis, Bosch, Panasonic, Pelco, Sony	Proprietary plugin	No*	Yes	Νο

Product Type	Discovery method	TLS support	Confirm User-set Password	Change Password
ONVIF- compatible cameras	ONVIF plug-in	Yes***	No	Yes
Notes:				
*TLS connection car	n be established if supp	orted by the unit as	well as the VMS	
** Changing passwo HD cameras	ord is supported for: FLI	R core cameras, Q	uasar Gen II cameras, Ari	el cameras and ioi
*** Assuming the ca	mera supports TLS			
	s, as the capabilitie are developed, this	•	ces are enhanced, a odated.	nd as new

TLS for Edge Devices – Choosing the options

The user sets under what conditions Edge Devices may communicate with the system. Terms used here:

Secured Connection - Communication uses HTTPS and encryption to ensure integrity of messages and guard against malicious users.

Self-signed - Certificate is generated by the camera (or unit), rather than by a third-party Trusted Certificate Authority



Before enabling 'Use secured edge connections'

Certificates must be loaded into the cameras BEFORE enabling this option.

- Use the cameras' web pages to check if the target camera/s have an Enable/disable SSL option, and if so, ensure that is it enabled (e.g. Ariel Gen 2)
- 2. Use the web page to upload certificates or generate self-signed certificates.
- 3. If you use the Edge Device Security screen option 'Generate Self-signed certificate', please note that this is not supported by all manufacturers.
- 4. Once certificates have been loaded, you can check that they are correctly set up by accessing the camera's web page through **https**.

Parameter

Comments

Use secured edge connection if available:
 Connecting new units
 If this option is enabled the Archiver will try to establish a secured connection with the camera. If it succeeds then all the communication with the camera will be encrypted.

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Parameter	Comments
- Rediscovering existing units - Performing firmware updates	 Discover using FLIR Plug-in or ONVIF method. Units must support HTTPS and have certificate already loaded, or have already created their own self-signed certificate.
Block communications for devices using unsecured connection, but allow user to secure them	APPLIES TO ALL UNITS. Archiver will block all communication from units except those actions that are required in order to set up secured connections. (More strict)
Elock	APPLIES TO ALL UNITS.
communications for devices using untrusted certificates, but allow user to replace them	Archiver will block all communication from units except those actions that are required in order to replace the certificates.
	(Most strict)

Click to show/hide Notes on setting Security Policy

Note:

- When activating these rules, keep in mind that 'Use secured edge connection' applies only to *new* edge devices that are being discovered, **Rediscovering** units, and **updating** *firmware* on units – when reconnecting to devices already in the system, without rediscovering, this is not enforced.
- 2. The two 'block devices' rules are *always enforced* devices that do not meet the criteria, including those that are already connected, will be blocked.
- 3. When changing the 2nd and third parameters (Block units with unsecured connection or Block units with untrusted connections), the units are reinitialized by the Archiver, and there may be a delay before the units become accessible again. Users should allow time for units to become available before continuing.
- 4. When **Changing passwords**, special care must be taken on PTZ units. (See <u>When using Change Password on PTZ Cameras</u>)
- 5. When **Updating Firmware** on **Quasar Gen II** and **IOI_HD** units If Secure communications are enforced (Certificates in use), then operators must reload certificates on the units after the firmware upgrade.

2. IP Security for connections from Web Clients

The IP Security settings allow the user to activate or deactivate Transport Layer Security (TLS) which encrypts communications between the Horizon/Meridian and Web Clients.

Caution:

These parameters should be set up in consultation with the User's IT Department

Preparing to set up TLS

The following steps must be completed before activating TLS.

- 1. In order to use this facility, the User's IT department must arrange for a suitable TLS Certificate to be accessible to the system.
- 2. The system is set up to use default port settings for this feature. The user should verify with the IT department that these ports are available. See <u>IT Setup / Secured</u> Video Transmission for External Connection

Setting up TLS

The IP Security panel initially shows two buttons.

IP Security

Load TLS Certificate	

Only the 'Load TLS Certificate' button is enabled.

Clicking on this button opens an Explorer window where the user can select a TLS Certificate to be used.



Select the .pfx file (that was previously acquired by your IT department), and click Open.

You will be asked for the Password associated with this Certificate.

Load TLS Certificate	×
Certificate Rob.pfx Password	
V OK X Cancel	

When a valid password has been entered, the system returns to the main parameter screen, and this now shows the options to Replace or Remove the TLS Certificate, and the name of the issuer of the Certificate.

Note:

The display returns to the System Parameter screen. The user must $Save \square$ the changes.

Once the changes have been saved, the system will restart Web Client connections, and all subsequent communications with Web Clients will be encrypted. The https connection and secure icon show in Web Client address bars:

📕 🎗 localhost/Web	
← → C A	https://localhost/WebClient/ControlCenter/Index#/previewsian
🔛 Apps 🦳 Impor	rted From 10 M Gmail G Google 📑 Facebook 🚧 CNN 👿 Wikipedia
	Mon 09 May 03:05PM

Replacing or Removing the TLS Certificate

Once a Certificate is in use, the user is shown these options.



The Replace option may only be used when an alternative Certificate is available.

The Remove option results in TLS encryption being discontinued, and further WebClient traffic is in the clear.

The user must confirm this action before it is carried out.



10 About this File

Welcome to the United VMS 9.2 Horizon/Meridian Admin Center Help File. Note: Changes to this file were last introduced after Application Build No: 3100

Summary of latest changes:

Change	Date Changed	Summary	Links
Basic Analytics	Sep 2018	Added description of basic analyics and behavior with motion detection	Basic Analytics
Login Screen	Mar 2018	The user can choose between entering a new system/IP to connect to or connect to a previously-entered server name/IP	Login Screen
Security Screens	Sept 2017	The Horizon/Meridian system was upgraded to provide Transport Level Security on connections to Edge Devices.	<u>Security</u> <u>Screens</u> , <u>Edge</u> <u>Devices</u>
		Note : This change also required all Help screenshots showing the Sidebar to be updated.	<u>s(Security),</u> <u>Settings</u> <u>(Security)</u>
,Web Client Security	Sept 2017	The Web Client Security Tab was moved from the IT Setup screen to the Security Settings screen	<u>IT Set, Settings</u> (Security) up
Reports	Sept 2017	Note added to Reports screen of where to find Adobe License information if required.	<u>Reports</u>
Maps	Sept 2017	Help information about Maps was updated.	<u>Maps</u>
Analytics Tab	Mar 2017	A new tab was introduced allowing the user to set up Analytics rules through the Horizon/Meridian system, rather than through a Web interface	<u>Analytics</u> <u>Settings</u>
Settings Tabs	Mar 2017	With the addition of an Analytics Tab, the display of all Settings Tabs was re- organized.	<u>Camera -</u> <u>Detailed Settings</u> <u>Tabs for different</u> <u>Camera</u> <u>Capabilities</u>
Web Client	Oct 2016	List compatible browsers	
Thermal Analytics	Oct 2016	Using ioi Thermal Analytics	<u>Thermal</u> <u>Analytics</u>
Thermal Cameras	Oct 2016	Details on the Thermal Settings Tab	Thermal Settings
Panoramic cameras	June 2016	Additional information for setup of Quasar Gen2, Sentry panoramic cameras	<u>Camera -</u> <u>Detailed Settings</u> <u>for Motion</u> <u>Detection, Video,</u>

Picture and PTZ

FLIR Recorder Support	June 2016	Support for FLIR DVR recorders and their attached cameras was introduced in thi upgrade. Because attached FLIR DVRs show as standard devices, no change was made to the Help file.	
		Note : Video recorded on the Recorders is viewable as from normal cameras, but recordings are not transferred to the main system.	
		Details about accessing video from DVR Recorders is described in the Control Center Help file.	
File information	May 2016	This new topic was introduced so that users could see the file status and have a summary of relevant recent changes.	(This topic)
Transport Layer Security (TLS)	May 2016	Transport Layer Security is available on communications between the Web Server and any connected Web Clients.	<u>Server Settings,</u> I <u>T Setup</u>
		The user is responsible for acquiring and installing a suitable Certificate.	
FLIR Branding	March 2016	The United VMS 7.0 suite was rebranded.	

Please note: This is not a formal Change Register - the list is included so that users can quickly access Topics that contain new or changed information.

File information:

Horizon-Meridian Admin Center User Guide 9.2.pdf	Thursday, April 7, 2022
Please note: This is a reference to	

the Source File for the Help system. It



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