INTEGRITI DAHUA CCTV INTEGRATION MANUAL



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Integriti Dahua CCTV Integration

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CCTV Capabilities

Core CCTV Capabilities

Feature	Feature Description	Ver	Y/N
Stream Live CCTV Footage	Live CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	18	✓
Select Custom Aspect Ratio	Select the aspect ratio to use when streaming CCTV footage on a per-camera or per-recorder basis.	18	✓
Stream Archived CCTV Footage	Archived CCTV footage can be streamed from online cameras in the CCTV system to an Integriti client.	18	✓
Control Archived CCTV Playback Speed	Playback speed of archived CCTV footage can be controlled from the Integriti client.	18	✓
Auto-Play CCTV Footage from Events	Live or archived CCTV footage can be configured to be automatically displayed when an event occurs in the Integriti System on a specific client workstation.	18	✓
Create Child Devices from Camera Configuration	Child CCTV Cameras will be created based on the Camera configuration on Refreshing Child Devices	18	✓
Associate Cameras With Entities	Cameras loaded from the CCTV system can be associated with Integriti Entities to allow direct control of one from the other.	18	✓
Show Associated CCTV From Event	Associated CCTV Footage can be directly accessed and viewed from any event occurring in Integriti that has an associated Camera (either a direct association or through the Entity that triggered the event)	18	✓
Control PTZ Cameras	Send PTZ commands to support cameras on the CCTV system to control the Pan, Tilt and Zoom of the camera directly from the video stream.	18	✓
Send Cameras to PTZ Preset	Send supported PTZ cameras on the CCTV system to preconfigured PTZ presets directly from the video stream.	18	✓
Digital PTZ Control	Digitally zoom the CCTV stream's image for non-PTZ cameras and archived footage.	18	✓

CCTV Layouts	Store a collection of Cameras with an specific viewer layout to be brought up at a later point in time	20	✓
CCTV Surrounding Cameras View	Show a selected camera, as well as the cameras configured to be N, NE, E, SE, S, SW, W and NW of the selected camera, quickly jumping between surrounding streams directly from the view.	20	✓
Trigger Actions in the CCTV System	Trigger actions or commands in the CCTV system directly from Integriti.	18	✓
View and Control Cameras on Schematics	Cameras can be added to Schematics Maps in Integriti and directly viewed and controlled directly from the Schematic. Each camera's state is immediately visible on the Schematic where available.	18	✓
Sync Time (via NTP)	Sync the time of the CCTV system and Integriti to match via an NTP.	18	✓
Display Connection Status to CCTV System	Display whether or not Integriti is currently connected to the CCTV system.	18	✓
Receive Events/Alarms from the CCTV System	Log events/alarms occurring on the CCTV system to Integriti's Review.	18	✓
Trigger Integriti Actions on CCTV Events/Alarms	Trigger actions to automatically occur in Integriti whenever specific events/alarms are received from the CCTV system.	18	✓
Generate Alerts from CCTV Events/Alarms	Automatically generate and restore Alerts tied to a specific Camera in Integriti whenever specific events/alarms are received from the CCTV system.	19	✓

Advanced CCTV Capabilities

Feature	Feature Description	Ver	Y/N
Automatically Load Camera Configuration	Refreshing Child Devices will automatically populate all cameras configured in the CCTV System into Integriti when run. If not supported, camera configuration will need to be manually entered into Integriti.	18	✓
64-bit Integration Server Support	The integration supports being run on the 64-bit integration server.	18	✗
Show Camera Status	The current online/offline status of configured cameras will be visible directly through Integriti.	18	✗
Categorised Review Records	Review generated by the integration will have a different category for different event types, allowing for easy filtering of specific CCTV events	19	✓
License Plate Recognition	License plates recognised by supported cameras in the CCTV system can be used to automatically allow access to configured Doors.	18	✗
Trigger Inputs on CCTV Event	Inputs in Integriti can be automatically triggered and restored when specified types of events are received from the CCTV system.	19	✓
Control Iris and Focus	Control the iris and focus of supported cameras on the CCTV system directly from the video stream	18	✓
Control PTZ Tours	PTZ Tours can be started and stopped directly from the video stream.	18	✗
Display Video Frame Times	When viewing archived CCTV footage, the time of the current frame will be displayed on the viewer control.	18	✓
Show On-Screen Display	Enable additional information (such as camera name and current playback time) to be displayed as an overlay on video streams.	18	✗
Reverse Playback	When viewing archived CCTV footage, the footage can be played in reverse.	18	✓
Step Forward/Backward	When viewing archived CCTV footage, the footage can be stepped through one frame at a time.	18	✗
Export CCTV Clips	Export video clip of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	19	✗

Export CCTV Snapshots	Export still snapshot of archived CCTV footage to the Evidence Vault or to a file directly from Integriti.	19	✖
Export Current Frame	Export still snapshot of the current frame in the CCTV Viewer to the Evidence Vault or to a file directly from the CCTV Viewer.	20	✖
Stream Audio With Video	Receive audio from the microphone on a supported CCTV camera through an Integriti client workstation	18	✓
Send Audio to CCTV Camera	Send audio from an Integriti client workstation out of the speakers on a supported CCTV camera.	18	✖

Integriti Dahua CCTV Integration Compatibility

Required Integriti Version License

The Integriti Dahua CCTV Integration requires an Integriti Pro/Infiniti v20 license or higher to be present on the product key running the integration.

Minimum Installed Integriti Version

The Integriti Dahua CCTV integration is only compatible with an installation of Integriti Pro or Infiniti that is v19.0 or higher.

Licensing Requirements

Integriti CCTV integrations require 1 CCTV camera license per Camera to be used in the system. Any Cameras that are unlicensed will still show up in Integriti, however will not be able to be used.

Tested Against

The Integriti Dahua CCTV plugin was built and tested against the following versions of software:

- Dahua Camera IPC-HDW4631EM-ASE - 2.622.0000000.31.R, Build Date: 2018-08-13
- Dahua NVR DHI-NVR5416-16P-4KS2E – v4.000.0000001.5 Build Data 2019-12-06

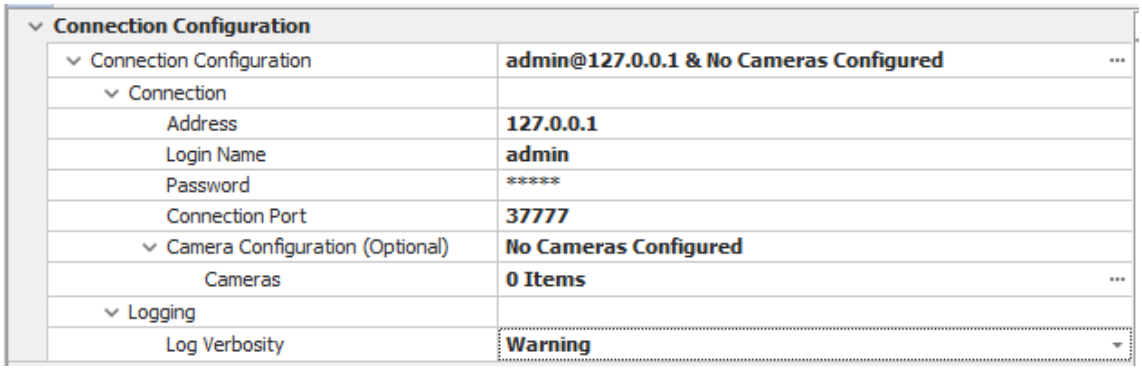
Configuration

Ports Used

The following ports are used for communication between the Integriti Dahua integration and the Dahua NVR/cameras. These ports should be configured in the Integriti Integration server and any Integriti Client Machine's firewalls to allow the integration to be used.

- 37777

Connection Configuration for NVR



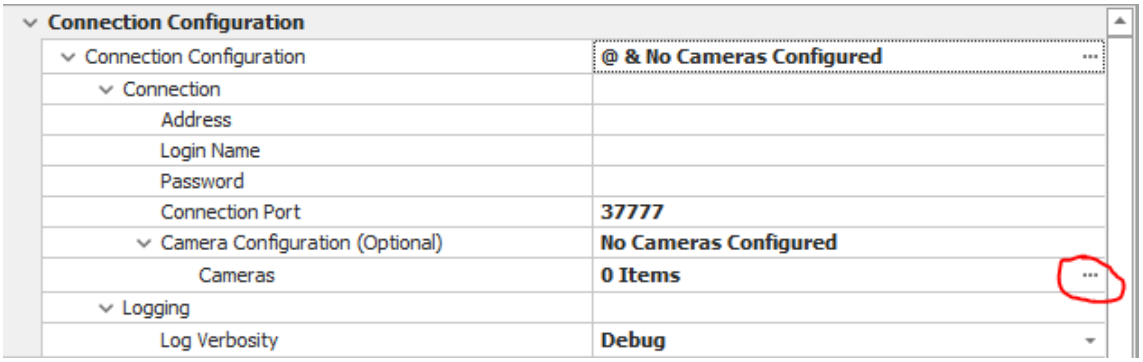
Connection

Address – The IP Address of the NVR to connect to.
User Name – The Username of the Dahua User to connect to the NVR with. This User should have sufficient permissions configured in Dahua to allow all of the features of the plugin to be used.
Password - The Password of the Dahua User to connect to the NVR with.
Connection Port - The Port used to connect to the NVR. This is 37777 by default. This port should be configured in the Integration NVR and any Client Machine's firewalls to allow it to be used.
Camera Configuration - Optionally configure the cameras that should be directly connected to Integriti.

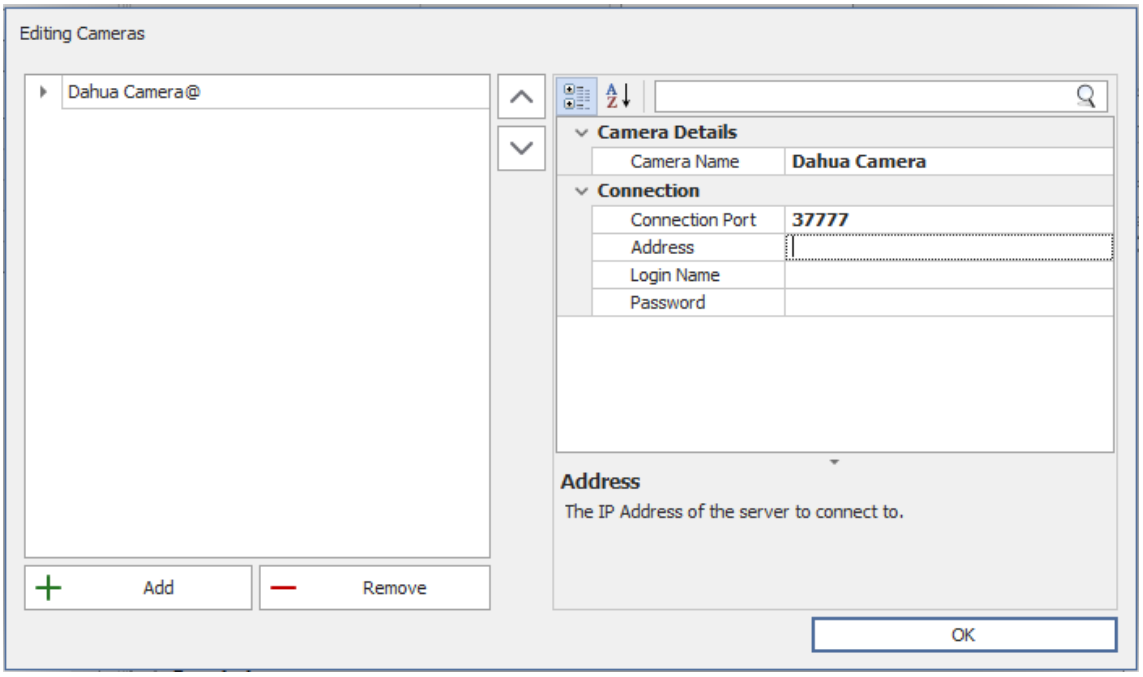
Logging

Log Verbosity - Only logs of the specified level or higher will be logged. If Warning is selected, only Warning, Error and Fatal logs will be written to the log.

Connection Configuration for Individual Cameras



When only connecting directly to individual cameras leave the Recorder Connection Details blank, specify the required 'Log Verbosity' and open the 'Editing Cameras' dialog by clicking on the (…) three dots part of the 'Cameras' field as shown.



Camera Details

Camera Name: Enter the name for the camera to connect to.

Connection

Connection Port: The Port used to connect to the camera. This is 37777 by default.
Address: The IP Address of the camera to connect to.
Login Name: The Username of the User to connect to the camera with. This User should have sufficient permissions configured to allow use of all of the features of the plugin to be used.
Password: The Password of the User to connect to the camera with.

Once all required cameras have been added execute the 'Refresh Child Devices' function.

Commands

CCTV Camera Commands

The following commands can be performed on a CCTV Camera:

Send Camera To PTZ Preset	Sends the selected camera to a preset identified by Ptz Id.