

VIDEOEDGE CAMERA HANDLER DOCUMENT

APACMidtier Release Notes

Document Revision

0.01

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General Purpose

The purpose of this document is to provide a detailed list of supported manufacturers and manufacturers' camera lines integrated and supported by the American Dynamics VideoEdge Network Video Recorder version 4.5.1 and the VideoEdge Camera Handler version 4.5.1.

Note

1. You can upgrade your VideoEdge Camera Handler version at <http://www.americandynamics.net>
 2. Please reference NVR Installation and User Manual to Configure Storage. NVRs can require a tremendous amount of storage space depending on the number of cameras, codec, resolution, and frame rates, recording modes, and the duration for which you wish to preserve video recordings. At the outset of your use of the NVR system, you will need to have storage configured to record data
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What's New in This Release

This camera handler release provides integration for the following cameras:

- Camera pack version: 4.5.1.2002004
- Support for the following cameras:

Model/ FW	CODEC Supported	Audio	I/O	VideoEdge Versions Supported	Certification
Speed Dome					
ADCi150-S037/ V1.06_STD-1	H.264, MJPEG	G711mulaw	1/0	4.5.1	Works as designed
ADCi550-S020/ V1.06.1_STD-1	H.264, MJPEG	G711mulaw	1/0	4.5.1	Works as designed
ADCi550-S120/ V1.06.1_STD-1	H.264, MJPEG	G711mulaw	1/0	4.5.1	Tested & Certified
ADCi350-S019/ V1.06_STD-1	H264,MJPEG	G711mulaw	1/0	4.5.1	Tested & Certified
IP Cameras					
ADCi150-X011/ V1.04.6_STD-1	H.264, MJPEG	G711mulaw	1/0	4.5.1	Works as designed
ADCi550-B011/ V1.01.7_STD-1	H.264, MJPEG	G711mulaw	1/0	4.5.1	Works as designed
ADCi550-D011/ V1.01.7_STD-1	H.264, MJPEG	G711mulaw	1/0	4.5.1	Works as designed
ADCi550-X011/ V1.01.7_STD-1	H.264, MJPEG	G711mulaw	1/0	4.5.1	Works as designed
Encoder					
ADCe150-E004/ V1.09_STD-1	H.264, MJPEG	G711mulaw	4/0	4.5.1	Works as designed

Supported Key Functions

- Video Streaming - Single and Dual(H264+H264 and H264+MJPEG)
- Audio Streaming - Only support G711mulaw
- PTZ - Applies to cameras that have mechanical Pan and Tilt and Optical Zoom.
- Dry Contact Events
- Query Device

Unsupported Key Functions

- Power Off
- Get Log
- Factory Defaults
- Find Device
- Reboot

Default Ports

- Port 80 for HTTP
- Port 554 for RTSP

Default Username & Password

- Username: root
- Password: root

Camera Serial number

NVR will use the camera's MAC address as the camera serial number.

Audio/Video Stream Feature

- Video quality and bit rate control settings for H264 must be done via the camera web gui.
- Audio codec of camera is not only G711mulaw, but NVR only supports G711mulaw.

Event Stream Feature

HTTP Server push functionality available in APACMidTier is used to efficiently obtain the dry contact event. The maximum number of dry contact events supported by each camera family:

Model	Max # of Dry Contact Supported
ADCi150-X011,ADCi150-S037	1
ADCe150-E004	4
ADCi350-S019	1
ADCi550-X011,ADCi550-D011,ADCi550-B011,ADCi550-S020,ADCi550-S120	1

Limitations

Model	Limitations
ADCi150 serials	1. The camera's time will restore to 1970 after power off.
ADCi150-S037	1. When the zoom module move to the angle of 0 or 180, the middle of image will be covered by the dome cover.
ADCe150-E004	1. The dual stream mode, due to encoder performance limitation, the H264 primary stream is often jitter and not smooth in certain resolution combination, then user want to get the smooth video, user can reduce the second video configuration. 2. Due to encoder performance limitation, if audio is enabled, the video stream can often jitter. So suggest user don't enable audio and make sure audio is disabled on camera and NVR web gui.

Known Issues

- None

Special Points

- After camera added to NVR, it's not recommended that user change any configurations from camera web gui.
- It is not recommended that change the two video stream parameters at the same time on NVR web gui.
- For some cameras which support flickerless
When the flickerless is 50, the maximal FPS value is inconsistent between NVR and camera.
For the maximal FPS value, user can refer to NVR.
- For 550 serial cameras except speed dome

It has two sensor mode, and they are "Full HD" and "XVGA", and the highest resolution is different between Full HD and XVGA, so user must select the sensor mode on camera web gui before the camera is added into NVR. Sensor mode modification is not supported by handler.
- For the camera which sensor mode is "CMOS", the camera video standard is neither PAL nor NTSC, so the video standard display "UNKNOWN" on NVR web page.
- For the camera that support back light compensation control, the option supports 2 settings, namely
 - "0"- Disable back light compensation function
 - "1"- Enable back light compensation function
- For the camera that support day night mode setting, handler is only support "auto","day" and "night", not support "Response to event trigger".
- User need make sure camera motion detection is disable when the camera's bit rate or resolution is at high level to improve the performance
- For PTZ function of ADCe150-E004
 1. ADCe150-E004 is four channel encoder, it has four PTZ drivers, the four drivers are map to four channel orderly by handler, NVR controls channel 1 using PTZ driver 1, controls channel 2 using PTZ driver 2, controls channel 3 using PTZ driver 3, controls channel 4 using PTZ driver 4. So before camera is added to NVR, user make sure the PTZ driver has been configured.
 2. For the baud rate of PTZ, the recommended baud rate is 4800.