Release Notes

HDVR (Hybrid Digital Video Recorder)

Version 1.6

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What’s in This Release

American Dynamics is proud to announce the release of the Hybrid Digital Video Recorder (HDVR) v1.6

Product Description
The HDVR is a next generation high-performance, H.264, 30 images per second per channel security solution. The HDVR system supports 480 ips for 16 analog channel systems and 960 ips for 32 analog channel systems, H.264 hardware compression with video motion detection, event based recording, and relay output controls. Networking capabilities allow local and remote administration, playback, and export using a common PC client application. The HDVR supports a mix of analog and IP cameras with the same intuitive interface. Flexible high-speed search include time and date, event, and smart pixel searching. The HDVR offers users a highly intuitive and ergonomically designed interface that provides simple and efficient access to all setup and operation functions.

HDVR v1.6 Features
The following new features are supported in HDVR v1.6:

- illustra 600 / 610 Camera Integration
- Enhanced Search Page Functionality
- HDVR Client Login/Logout
- Dewarping of 360° Cameras
- Enterprise Notifications Page
- IP Camera Enhancements and Updates

illustra 600 / 610 Camera Integration

The American Dynamics illustra 600 / 610 cameras are now integrated into the HDVR with the v1.6 release. The camera models that are supported are:

- ADCi600-Dxxx
- ADC-610-Dxxx
The following are important Release Notes related to the integration of these cameras into the HDVR:

- The illustra600 / 610 cameras utilize the illustra camera handler in the HDVR.
- The IP Fixed Cameras and the illustra400 cameras will continue to utilize the *American Dynamics* camera handler in the HDVR.

- The HDVR IP Camera Finder will auto discover the illustra600/610 cameras using the ONVIF handler. After the cameras are auto-discovered users must manually add the illustra600/610 cameras using the illustra plug-in in the HDVR. The default Username and Password is admin/admin. The IP address that was found by the auto-discover process can be used to connect the i600/i610 camera to the HDVR. Once the camera is connected it will revert to the illustra plug-in in the IP camera list.
• When the camera connect, the HDVR will default to the highest camera resolution the i600/610 support (720p/1080p). If any changes to the camera resolutions are required, these changes must be made in the camera GUI. The camera needs to be disconnected and reconnected in the IP Camera list for the specified resolutions to be displayed in the HDVR GUI.

• Changing the Quality Slider bar on the Camera Setup Page in the HDVR GUI will create a temporary video loss while the new settings are configured in the camera. This can be alleviated by disconnecting and reconnecting the camera in the IP camera list.
Enhanced Search Page Functionality
HDVR v1.6 has a freshly designed Search Page, the first of many Search Page enhancements. The new Search Page layout is more intuitive, and includes a number of new features, including the ability to set start time and end time. The search results appear in a dynamic timeline that scales appropriately to the start time and end time parameters. The new layout enables a larger viewing area for cameras.

The new Search Bar:
**HDVR Client Login / Logout**

The new Client Login/Logout security feature adds the ability, on a per server basis, to require user login for each connection. This new setup option appears on the Add Systems page:

When that login parameter is chosen, a prompt for user login credentials will appear when attempting to connect to that system.
Dewarping of 360° Cameras
Support has been added for Real Time dewarping of 360° cameras from ImmerVision and Sentry360. Expanded Digital PTZ Settings on the Camera Setup Page enables the configuration of the 360° parameters:

Users have the ability to zoom in and pan around the image in a fully dewarped mode. Users can also set up multiple camera views giving the effect of multiple, individual cameras watching different parts of the viewing field.
Fish-eye Camera Support
The complete line of FullSight™ Series cameras from Sentry360 are supported:
– FS-IP 1000
– FS-IP 10K
– FS-IP 2000
– FS-IP 3000
– FS-IP 5000

The full line of Panomorph lenses from ImmerVision are supported:
– IMV1-1/3
– IMV1-1/3NI
Enterprise Notifications Page
Enterprise Notifications provides the capability to configure notifications for all Enterprise rated HDVR servers from a single screen. It appears as a new icon in the “My Enterprise” section of the Configuration page.

IP Camera Enhancements and Updates
The following enhancements and updates have been made to IP cameras in the HDVR v1.6 release.

Zoom support has been added for the full line of KCM-Series cameras.

Support has been added for the new AV20185DN and AV20365DN 20-Megapixel panoramic cameras.
Support has been added for the AT-16SD180-N 180-degree panoramic camera.

**BOSCH**
Enhancements to the Bosch ONVIF driver include support for encoding interval parameter, as well as frame rate for the supported cameras.

**IQinvision**
Support has been added for the new IQA33 and IQA35 Alliance Pro models.

**PELCO**
Numerous bug fixes, as well as added support for the Sarix PTZ cameras.

**SAMSUNG**
Enhancements to the Samsung ONVIF driver include multi-profile support and H.264 support for the supported cameras.

**HUNT**
The HUNT line of ONVIF compatible IP cameras are now supported in the ONVIF protocol on the HDVR.

**SANYO**
Support has been added for the new VDC-HD3500 and VDC-HD3300 HD IP cameras.

**VIVOTEK**
Support added G.711 audio for all 8000-series and some 7000-series models.
Known Limitations and Issues

1. illustra 600/610 utilize the illustra camera handler in the HDVR

2. The HDVR IP Camera Finder will auto-discover the illustra600/610 cameras using the ONVIF handler.

3. The illustra600/610 cameras must be manually added in the IP Camera List using the illustra handler after they are auto-discovered.

4. illustra 600/610 camera resolution changes must be made via the camera GUI. It is recommended that changes to the resolution are made prior to connecting the camera to the HDVR.

5. Adjusting the Quality slider bar in the HDVR Camera Setup page will result in momentary video loss while the camera changes are taking affect.

6. Testing of the HDVR v1.6 software on HDVR 16 channel RAID units (ADHD16R300) has shown that the current published throughput rate of 150 Mb/s (18.5 MB/s) may not be supported on these units. Observed rates of 100mb/s (12.5MB/s) have been observed. Users who upgrade to the HDVR v1.6 release should be aware of this limitation.

7. Testing of the HDVR v1.6 software on HDVR 16 channel non-RAID units (ADHS160x00) has shown that the current published throughput rates of 80 Mb/s (10MB/s) may not be able to be attained with this version of software. Latest testing indicates a system throughput of approximately 60Mb/s (7.5MB/s). We are continuing to investigate a resolution to this issue. It is recommended to configure cameras in Motion Record mode to conserve system throughput and disk storage.