

## GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.1.95**

Product Model: **GXV3500**

*(Boot: 1.0.0.0; Core: 1.0.1.95; Base: 1.0.1.95; Prog1: 1.0.1.95; Prog2: 1.0.1.95)*

Date: *May 26, 2016*

### SUMMARY OF UPDATES

The main purpose of this release is enhancement for **GXV3500, Only**

### CHANGES SINCE FIRMWARE RELEASE 1.0.1.94

#### ENHANCEMENTS

- Changed the WEB UI color tone to dark blue and updated the Logo.

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## GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.1.94**

Product Model: **GXV3500**

*(Boot: 1.0.0.0; Core: 1.0.1.94; Base: 1.0.1.94; Prog1: 1.0.1.94; Prog2: 1.0.1.94)*

Date: *April 28, 2016*

### SUMMARY OF UPDATES

The main purpose of this release is feature implementation for **GXV3500, Only**

### CHANGES SINCE FIRMWARE RELEASE 1.0.1.93

#### ENHANCEMENTS

- Added displaying black screen to external monitor/TV when network is disconnected.

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## GRANDSTREAM NETWORKS

Firmware Release Notes: **Version 1.0.1.93**

Product Model: **GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD**

Date: *November 16, 2015*

### SUMMARY OF UPDATES

The main purpose of this release is bug fixes and additional feature implementation.

### CHANGES SINCE FIRMWARE RELEASE 1.0.1.92

#### BUG FIXES

- Fixed GXV3500 forcing input user ID and password when streaming RTSP URL.
- Removed AAC

#### NOTE

- Last FW for GXV3651FHD and GXV3662HD
- Last FW for GXV3672\_HD/FHD V1. Will continue support and release V2 firmware.

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Firmware Release Notes: **Version 1.0.1.92**

Product Model: **GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD**

Date: *September 10, 2015*

## **SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.91**

### **BUG FIXES**

- Fixed FTP user name truncated when exceeding specific character length.
- Fixed GXV3651FHD will not return actual snapshot from 1<sup>st</sup> request when maximum resolution used.
- Fixed ONVIF profile creation with wrong token name.
- Fixed GXV3500 POST command to request the output audio talk.
- Fixed critical Telnet security exploit that password can be revised using special string.
- Fixed GVR355x talk function failed when IP camera audio configuration set to disable.
- Fixed Chrome browser tips “page no response” when using Playback function to playback video files.
- Fixed using Playback Tools at the local configuration webpage would crash Firefox browser.

### **ENHANCEMENTS**

- Added Motion Detection Trigger Control Settings for GXV3662\_HD and GXV3662\_FHD.

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Firmware Release Notes: **Version 1.0.1.91**

Product Model: **GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD**

Date: *March 9, 2015*

## **SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.90**

### **BUG FIXES**

- Fixed GXV361x camera cannot auto answer in a paging group.
- Fixed TELNET security issue, user with viewer privilege able to factory reset the device.
- Fixed ONVIF Profile 0/1 included false fixed token.
- Fixed ONVIF connection would fail if the username of IPC with more than 20 Chinese characters.
- Fixed ONVIF "GetSystemDateTime" error in the returned value.
- Fixed WebControl issue that user cannot change the recording file path and always using default path with Firefox/Chrome browser.
- Fixed WebControl issue that capture folder name cannot be revised or adjusted.
- Fixed SIP number truncated if SIP phone number more than 15 characters.
- Fixed typo in the plugin "Videoplugine.exe".
- Fixed cannot set static IP without DNS configured.
- Fixed GXV3651FHD the name of SSID is not correct.
- Fixed GXV3615WP\_HD cannot save by prompt "save failed" when 2<sup>nd</sup> stream resolution set to 160\*112.
- Fixed changing IP address from DHCP to Static via "GS\_Search" tool, the device will revert back to previous IP after a while.

### **ENHANCEMENTS**

- Added option to upload JPEG images into subfolder by dates.
- Revised WebGUI wording from "Enable two-way audio warning mode" to "Enable two-way SIP calling".
- AVI file format will be used for WebControl recording, playback tool, and compliant with old h.264 format
- Security enhancement: Disable TELNET function by default.
- Delete the word "Remove" in SIP Web Setting Page.
- Added ONVIF support of set Preset Name include ""
- Improve ONVIF system time setting and system web page by adding WebGUI for ONVIF time zone

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Firmware Release Notes: **Version 1.0.1.90**

Product Model: **GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD**

Date: *December 11, 2014*

## **SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.89**

### **BUG FIXES**

- Fixed recorded MD video still included audio even disabled.
- Fixed GXV3500 display white screen on TV output.
- Resolved GVR3550 compatibility issue via ONVIF or encode config.
- Fixed when audio format set to AAC the two-way audio becomes abnormal.
- Fixed ONVIF will cause GXV3500 network and time information displayed abnormal.
- Fixed GVR3550 using XML file to update GXV3615WP\_HD could crash the device.
- Fixed GXV3615WP\_HD steam output intermit broken when GVR3550 or GSurf\_Pro using XML to configure the device on the fly.
- Fixed GXV3615WP\_HD factory reset after XML provisioning will have abnormal webGUI display.
- Fixed Alarm Record and JPEG upload to FTP the resolution is 1920x1088 when configured as 1920x1080.
- Fixed abnormal Alarm Event action when configure "Email and FTP upload JPEG and Store it to USB card or SD driver" in related camera models.

### **ENHANCEMENTS**

- Improve and support SIP Open Door Key with 1 digit as minimum.
- Respond to HTTP polling requests for Motion [Synology IOT]
- Added Time Lapse Recording Feature
- Enable UPnP Discovery by default
- ePTZ revision: when ePTZ configured, both streams will be applied to ePTZ resolution.
- Added stream recording option for local recording of GXV3615WP\_HD.
- Added QVGA resolution to primary stream of GXV3615WP\_HD.
- Revised NTP update interval to new default value as 60 minutes.

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Firmware Release Notes: **Version 1.0.1.89**

Product Model: **GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD**

Date: *August 8, 2014*

## **SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.88**

### **BUG FIXES**

- Fixed FTP not working with some specific server. (e.g.: Vodafone)
- Fixed GXV3500 delayed response to PTZ commands.
- Removed ALLO command in FTP implementation.
- Fixed audio using AAC codec, the MJPEG video stream fail. (e.g.: [http://IP\\_Addr/mjpeg/mjpeg4.html](http://IP_Addr/mjpeg/mjpeg4.html))
- Fixed issue "Viewer" user able to get to some setting page.
- Fixed webGUI fail to access if wrong email address, HTTP or SMTP port both configured same. (e.g.: TCP465)
- Fixed GXV3672\_HD/FHD not return "error" information when opening the "talk" feature.
- Fixed no related "P Values" to control the TELNET and UPnP enable and disable.

### **ENHANCEMENTS**

- Improved GXV3615WP\_HD 2<sup>nd</sup> stream image quality with revised algorithm and new default value.
- Supported ONVIF "use sync point" to enforce the IPC to add an I-Frame.
- Improved ONVIF response speed (Onvif\_Port = Web\_port + 8000).
- Added image quality option for MJPEG.
- Improved DST webGUI, synchronized with GS Phones and more user friendly.
- Improved with more user friendly Motion Detection Setting webGUI.
- Added TELNET enable/disable choice.
- Added UPnP enable/disable choice.
- Added ONVIF Alarm Input Notification.

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Firmware Release Notes: **Version 1.0.1.88**

Product Model: **GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD**

Date: *May 6, 2014*

## **SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.87**

### **BUG FIXES**

- Fixed wrong MIME type at email notification.
- Fixed lost image details or view angle when selecting different resolution.
- Fixed GXV3500 slow boot up when configured as Encode Mode.
- Fixed GXV3500 audio delay when using PCMU.
- Fixed security issue of able to add administration account w/o authentication via ONVIF.
- Fixed security issue of able to retrieve camera information w/o authentication.
- Fixed preset new name cannot be saved via ONVIF.
- Fixed GXV3662HD web page loading error therefore cannot access webGUI occasionally.
- Fixed GXV3651FHD PPPoE function not working.

### **ENHANCEMENTS**

- Added WebGUI hints that if both streams using MJPEG, Motion Detection will not take effect.
- Added MJPEG stream will be displayed at Safari on iOS/OS-X:  
(New URL: [http://IP\\_IPC/mjpeg/mjpegX.html](http://IP_IPC/mjpeg/mjpegX.html) X=0, 4. 0: 1<sup>st</sup> stream; 4: 2<sup>nd</sup> stream).
- Added MD zone variable to be used for the Alarm HTTP Server.
- Added NTP update interval option.
- Added alarm output duration in GXV3500
- Added disable TELNET option.
- ONVIF: provide motion detection notification.
- Improve NTP setting WebGUI.



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Firmware Release Notes: **Version 1.0.1.87**

Product Name: **GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD**

Date: *February 28, 2014*

## **SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.86**

### **BUG FIXES**

- Fixed image overexposure when shutter speed set to Auto.
- Fixed false Motion Detection Alarm triggered by IR\_Cut filter switching.
- Fixed when AAC as audio codec some P value cannot be write into via configuration file.
- Fixed GXV3615\_FHD SIP status displayed wrong in the status page.
- Fixed Time Zone not working for some half time zone like Venezuela.
- Fixed WebGUI might not be accessible after using HTTP API commands over 1000 times.
- Fixed SIP setting page white list number beginning with empty space cannot be deleted.

### **ENHANCEMENTS**

- Improved confusing MJPEG setting in WebGUI.
- Device name displayed on DHCP Option 66.
- ONVIF conformant optimization.

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Firmware Release Notes: **Version 1.0.1.86**

Product Name: GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD

Date: *December 20, 2013*

## **SUMMARY OF UPDATES**

The main purpose of this release is bug fixes and additional feature implementation.

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.84**

### **BUG FIXES**

- Fixed some models of IP Cameras cannot make SIP call without registration with SIP server (fixed direct IP calls or Peering calls not working with static IP)
- Fixed no audio from microphone if using VLC playing video stream for more than 3 hours.
- Fixed Alarm Event the snapshot photo cannot be uploaded to Alarm Server.
- Fixed GXV3615WP\_HD when configured 1<sup>st</sup> stream resolution to 1024x768 or above, the video displayed in WebGUI is not smooth, but OK when replayed from recording.
- Fixed GXV3500 in decoder mode SIP account cannot be registered without reboot.
- Fixed previous f/w when primary stream using MJPEG, alarm video cannot be selected but can be configured to recording the video by event.
- Fixed Alarm Video scrambled therefore when replay using VLC it will prompt "file damaged, want to repair?" to repair the file before playing the recorded video.
- Fixed HTTP Alarm MSG upload if containing "alarm\_type=%d", the request will automatically convert "%d" to the related alarm type and upload to server. If no such string then no alarm type will be included to the uploaded Alarm MSG.

### **ENHANCEMENTS**

- Allow GXV3500 decoder to user /0 if /0 or /4 is not specified.
- Added motion detection captures with pre/post alarm snapshots.
- Added GXV3500 decoder mode to use its Alarm\_Out interface to work for another GS IP camera like GXV3672\_HD/FHD or GXV3610\_HD/FHD
- Changed the default value of I frame to 80 for better video quality.

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Firmware Release Notes: Version 1.0.1.84

Product Name: GXV3500, GXV3662\_HD/FHD, GXV3672\_HD/FHD, GXV3651FHD

Date: October 18, 2013

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.83**

### **BUG FIXES**

- [QNAP IOT] Camera returns Invalid when setting MJPEG frame rate via HTTP API
- GXV3672\_FHD: Image distortion in Day mode Fixed cross site scripting vulnerability.
- GXV3651FHD: Snapshot via HTTP API shows strips
- GXV3651fhd on V1.0.1.83: Black screen at max resolution
- GAPS provisioning: Corrected P212 value for surveillance products
- GXV3662HD get stuck in closing a file on SD Card
- GXV3672HD V1.0.1.77: The device did not respond to messages from website so the device cannot be accessed.
- GXV3500 will crash to decode stream with HD resolution and require reboot to recover.
- The audio output delay when switch between primary and secondary stream.
- There are some problems with initial hang up when the device do IP dialing.
- GXV3651FHD: WIFI search cannot get SSID.
- GXV3672FHD: When setting up device for a custom time zone, the device cannot enter/exit daylight saving time.
- GXV3672FHD: Switch resolution and alarm to phone will cause device to reboot.
- GXV3615WP\_HD: Monitoring interval for scheduled video recording time is incorrect and generates an invalid AVI file.
- GXV3615WP\_HD: Factory reset through Web GUI will cause the WIFI page to display incorrectly.

### **ENHANCEMENTS**

- GXV3651FHD: Add option to choose NTSC/PAL video setting
- GXV36xx: Easier to read on screen display
- GXV3500: Add the ability to decode HTTP video stream
- Add variable to be used for the Alarm HTTP Server
- GXV3500: Enable use of alarm in when device is in Decode mode
- WebUI: Add a switch to manually turn on/off the DO

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Firmware Release Notes: Version 1.0.1.83  
Product Name: GXV3500, GXV3615WP\_HD, GXV3662\_HD/FHD, GXV3672\_HD/FHD  
Date: September 20, 2013

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.82**

### **BUG FIXES**

- Fixed GXV36XX cannot specify port of STUN server
- Default specified region and alarm icon flashing red whenever motion detection enabled and configured.
- Fixed cross site scripting vulnerability.
- Fixed webpage should only display Video as Audio not supported at GXV3672\_HD/FHD

### **ENHANCEMENTS**

- Added disable pre/post alarm JPEG option
- Put back GXV3500 Grandstream brand camera previous mode as Encoder
- Added WebGUI indication at "Live Storage" page when SD card is in usage.
- Customized JPEGs on alarm email attachment.
- Optimized processing and CPU loading.
- Default FHD model to 1080p @ 4Mbps.

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Firmware Release Notes  
Product Name / Firmware Version: GXV3651FHD/1.0.1.82  
Date: July 9, 2013

## **CHANGES SINCE FIRMWARE RELEASE 1.0.1.81**

### **BUG FIXES**

- Modified GXV3500 decoder WEB UI
- Fixed cannot upload the alarm picture to FTP server and mailbox

### **ENHANCEMENTS**

- Added support to apply SIP config changes without reboot

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Product Name / Firmware Version: GXV3651FHD/1.0.1.81

Date: June 25, 2013

## BUG FIXES

- Fixed delay in generating snapshots
- Fixed [Mirasys IOT]: Setting ONVIF EncodingInterval parameter has no effect
- Fixed supercmd access vulnerability
- Fixed stream not displayed on VLC after a period of time

## ENHANCEMENTS

- Added support to customize JPEGs on alarm email attachment
- Added support to change the admin password via provisioning file
- Added UPnP Discovery support
- Added support for SSDP protocol to find IPC on the network
- Added support for camera address offset for Pelco P/D protocol

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Product Name / Firmware Version: GXV3672HD-FHD / GXV3662FHD 1.0.1.77  
GXV3615WP\_HD / GXV3500 1.0.1.75

Date: April 23, 2013

## CHANGES SINCE FIRMWARE RELEASE 1.0.1.71

### BUG FIXES

- Fixed device advertises wrong media port after receiving re-invite without SDP
- Fixed wrong behavior after receiving 181 SIP message on GXV3500
- Fixed video stream not displayed on VLC after a period of time
- Fixed checking the upload HTTP server will affect motion detection module
- Fixed connection information in media level was ignored
- Fixed ONVIF conformance test issues on ONVIF test tool V12.06
- Fixed SIP warning call doesn't play alarm whistle after disable the warning audio mode on Asterisk
- Fixed after factory reset, language was restored to normal
- Fixed after factory reset, customized audio cannot be restored
- Fixed sip\_client process is blocked and SIP call feature doesn't work with customized alarm file
- Fixed with outdoor mode, video stream jump frame, both live view and record
- Fixed image picture was partially red
- Fixed check Email and FTP upload JPEG snapshot, trigger the alarm, video stream will be disconnect or device reboots itself

### ENHANCEMENTS

- Add an option to adjust live view stream performance
- Added an option to select "sendonly" and "sendrecv" for video in INVITE
- Added an option to adjust live view stream performance

- Optimized the process for alarm audio play
- Improved GXV3672HD\_FHD IR night vision

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Firmware Version: 1.0.1.71

Product Name: GXV3500/GXV3615WP\_HD/GXV3662HD-FHD/GXV3651FHD/GXV3672HD-FHD

Date: February 26, 2013

## CHANGES SINCE FIRMWARE RELEASE 1.0.1.68

### BUG FIXES

- Fixed continuous recording issue with SD/USB
- Fixed after rebooting the device, audio out volume becomes max value
- Fixed user doesn't know the status of customized warning audio, added a label to display the status
- Fixed when deleting the customized audio, there is no pop-up window to prompt user
- Fixed after configuration file "metadata.conf" gets lost after doing hard reset on the device
- Fixed after receiving a "404 Not Found" message, device does not call the second phone number on the list
- Fixed "Segmentation fault" issue when XML configuration file contains an invalid option
- Fixed time zone if updated via P value does take effect
- Fixed SIP account cannot register if SIP server does not support unregister
- Fixed when "Automatic Upgrade" is disabled, device still sends out requests for provisioning
- Fixed if time zone is set as GMT-4:30, device will delay 30 minutes
- Fixed Decode mode, 3500 is not able to display video of GXV3175/3140
- Fixed after modifying IP settings via search tool, live view stream will be disconnected
- Fixed after plugging in an USB storage device, web page cannot display the warning uploaded files
- Fixed GXV3651FHD wifi SSID list displays abnormally
- Fixed GXV3615WP\_HD after SIP account is registered, then use the search tool to modify devices' IP, camera and IP phones could not set up calls
- Fixed GXV3651FHD cannot update the max FPS via P value provisioning, when resolution is set as 1920\*1080&1600\*1200

### ENHANCEMENTS

- Added support to uploading customized voice message for SIP alarm calls
- Added support of customizing email notification for motion detection
- Added support of using the phone list as a serial hunting group
- Added support of MJPEG codec with limited FPS
- Improved auto white balance feature to make it work better under different light conditions
- Improved night vision algorithm to reduce noise

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Firmware Version: 1.0.1.68 (1.0.1.69 for GXV3672\_FHD)

Product Name: GXV3500/GXV3615WP\_HD/GXV3662HD-FHD/GXV3651FHD/GXV3672HD-FHD

Date: January 30, 2013

### BUG FIXES

- Fixed phone number in SIP not accepting \* (star) and letters.

- Fixed SMTP HELO/EHLO message not binding RFC2821 format.
- QNAP IOT video stream distortion with MJPEG format.
- Fixed audio codec disabled but still have audio from PC web interface.
- Fixed audio codec as AAC, connect camera via VLC no audio issue.
- Fixed not provisioning when “Automatic Upgrade” disabled.

## ENHANCEMENTS

- GXV3651FHD very low microphone sensitivity.
- Alarm phone list option as a serial hunting group (new products only)
- Allow customized motion detection alarm email (new products only)
- Added P value for mass provisioning.
- Added EPTZ function.
- Revised some default values (like CMOS) for better usability.
- Added Venezuela time zone.
- Fine tune and improved video quality.

## KNOWN ISSUE

- Time zone update via P value not working.
- XML provisioning file with illegal characters like “=” will make the device in reboot loop.

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Firmware Version 1.0.1.60

Product Name: GXV3500/GXV3615WP\_HD/GXV3662HD/GXV3651FHD

Date: May 16, 2012

## SUMMARY OF UPDATES

The main purpose of this release is bug fixing, additional feature implementing and stability issue addressing in previous release.

## CHANGES SINCE FIRMWARE RELEASE GXV3662HD/ GXV3651FHD 1.0.1.57, ADDED NEW PRODUCTS GXV3500 AND GXV3615WP\_HD

## BUG FIXES

- Fixed GXV3662HD homepage brightness, contrast during IRCut switch, in some extreme light conditions with probability of value overflow, leading white screen
- Fixed GXV3500 decoder mode using search tool to modify IP causing abnormal decoding
- Fixed GXV3615WP\_HD when enabled motion detection and alarm triggered, modify video resolution in the WebGUI might cause the device to reboot
- Fixed upgrade from old version to beta version, homepage is black and “D” key to restore video

## ENHANCEMENTS

- GXV3662HD default setting as outdoor video mode

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Firmware Version 1.0.1.57  
Product Name: GXV3500/GXV3615WP\_HD/GXV3662HD/GXV3651FHD  
Date: April 24, 2012

**CHANGES SINCE FIRMWARE RELEASE GXV3662HD/ GXV3651FHD 1.0.1.40, ADDED NEW PRODUCTS  
GXV3500 AND GXV3615WP\_HD**

**BUG FIXES**

- GXV3500 TV OUT mismatch with VIDEO-IN.
- GXV3615WP\_HD English UI text issue
- Avigilon IOT issue: ONVIF not connecting.
- SD card recording issue.
- Video delay using MJPEG video codec.
- ONVIF test tool support V1.02.4

**ENHANCEMENTS**

- GXV3500 support decode AAC audio
- Enabled alarm voice mode, trigger the SIP alarm to the audio only phone.
- GXV3662HD/GXV3651FHD COMS IR\_CUT settings added algorithm control item
- GS\_Search replies firmware version and device name
- SIP white list function
- GXV3651FHD added support 2560\*1920
- New User Log-in design, allowing anonymous mode w/o credentials prompted.

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Firmware Version 1.0.1.40  
Product Name: GXV3662HD/GXV3651FHD  
Date: September 20, 2011

**CHANGES SINCE FIRMWARE RELEASE GXV3662HD 1.0.1.28 / GXV3651FHD 1.0.1.32**

**BUG FIXES**

- Fixed: If the function (Enable Keep Alive) is active or not, the camera will send a sip request option to the sip server every 20s.
- Fixed: Option "Upload to Alarm HTTP Server" settings can't be saved after reboot
- Fixed: In the SIP page, add an option, when activated, all SIP calls will not send out audio
- Fixed: When the device receives a Check-Sync header field in the Notify packet, it will restart

**ENHANCEMENTS**

- Support for ONVIF test tool updated to version 1.02.3.5
- Support for NUUO VMS running device pack 1.13



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Firmware Version 1.0.1.28  
Product Name: GXV3662  
Date: April 19, 2011

#### **CHANGES SINCE FIRMWARE RELEASE 1.0.1.22**

##### **BUG FIXES**

- Fixed search tool cannot modify IP correctly
- Fixed 3662 IRIS (20% <->80%) switching problem
- Fixed 3662 IRIS will be darker

##### **ENHANCEMENTS**

- Updated the search program
- Added a tooltip in the warning triggered record page
- Added an option to allow user to set the duration time of the alarm output
- Added brightness, contrast and saturation auto save when power restart