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## GRANDSTREAM NETWORKS

Product Name: **GVR3550, GVR3552**

Firmware Release Notes: **Version 1.0.1.31**

*(System: 1.0.1.31; Boot: 1.0.1.2 Kernel: 1.0.1.23)*

HW Supported: **GVR3550: 1.1A, 1.2A, 1.3A, 1.4A, 1.6A**  
**GVR3552: 1.0A, 1.1A, 1.2A, 1.3A, 1.4A, 1.5A.**

Date: *December 18, 2015*

### SUMMARY OF UPDATES

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

### BUG FIXES

- Fixed system abnormal after replaying more than 10min with 16x speed.
- Fixed admin failed to delete the new created user logging to different interface (local/remote GUI).
- Fixed intercom may fail when switching to full screen display.
- Fixed modify video codec from H.264 to MJPEG via ONVIF may fail.
- Fixed some issue using ONVIF to configure encoding parameters via webGUI.
- Fixed GVR only enable one channel Motion Detection when configuring two cameras simultaneously.
- Fixed resource webpage stales after idle for a period of time.
- Fixed long time preview Google Chrome abnormal.
- Fixed web channel management in high resolution still get prompt "GVR does not support".
- Fixed WebGUI interface "start time" could be wrong during "import/export" operation.
- Fixed HDD management the replacement HDD synchronization too slow.
- Fixed Alarm Config page I/O alarm setting display issue.
- Fixed when using uPNP and RTSP using TCP port 554, the mapped external HTTP port is wrong.
- Fixed webGUI system log operation might abnormal when log was cleared.
- Fixed the progress bar not disappearing issue after HDD management operation like create volume.
- Fixed operation interface at Schedule might jump abnormally.
- Fixed cannot display syslog when searching syslog simultaneously at two webpages.
- Fixed remote user can still find the tag when searching even without privilege.
- Fixed remote playback failure when video file without SPS/PPS.
- Fixed when enable DDNS the network parameter can be saved blank.
- Fixed the webserver might stall after running for more than 4 days.
- Fixed local firmware upgrade may interrupt the local video preview.
- Fixed Chrome browser revise parameters then save them might have issue.
- Fixed some schedule name display issue when adding new schedule.
- Fixed factory reset could cause the system log not readable.
- Fixed at Channel Management after searching the cameras, click "Select All" the sequence messed up.

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- Fixed the time setting displayed wrong when planning schedule at the “Schedule” setting page.
  - Fixed modify and save 2<sup>nd</sup> stream parameters might not work as expected.
  - Fixed the web preview display error of record and snapshot file path and tips.
  - Fixed Mail delivery interval without unit of time stamp.
  - Fixed the full box mark checked when searching the list of backups.
  - Fixed no prompt when the path of “firmware file” is empty when using webGUI.
  - Fixed IE8 webGUI the display got split.
  - Fixed web preview the channels will display at left side when selecting channels to move via mouse.
  - Fixed browser has to be closed when installing the plug-in controller.

## ENHANCEMENTS

- Synchronized mail setting interface on both webGUI and local GUI.
- Added reboot prompt after a successful firmware upgrade process.
- Improved the I/O alarm tooltips.
- Prompt added to webGUI when doing “import & export” configuration file operation.

## KNOWN ISSUES

- N/A.

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## GRANDSTREAM NETWORKS

Product Name: **GVR3550, GVR3552**

Firmware Release Notes: **Version 1.0.1.27**

*(System: 1.0.1.27; Boot: 1.0.1.2 Kernel: 1.0.1.19)*

HW Supported: **GVR3550: 1.1A, 1.2A, 1.3A, 1.4A, 1.6A**  
**GVR3552: 1.0A, 1.1A, 1.2A, 1.3A.**

Date: *October 22, 2015*

### SUMMARY OF UPDATES

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

### BUG FIXES

- Fixed GXV3552 could be bricked by using old GXV3550 firmware.
- Fixed audio output delayed after playing local preview for a while.
- Fixed performance issue during 7/24 recording.
- Fixed system could stale when linking MD with email and screenshot.
- Fixed video playback abnormal when playing back cross-day video recordings.
- Fixed issue with Web Channel management for some 3<sup>rd</sup> party IP cameras.
- Fixed NVR configured with Static IP after reboot the gateway may become wrong.
- Fixed not “select all” when doing Backup Video Search.
- Fixed remote login interface with wrong displayed equipment image.
- Fixed web client losing synchronization at control buttons illustrating the time played.
- Fixed configure the timeout logoff locally would not work at remote web interface.
- Fixed DDNS username with special character “\_” would fail the login.
- Fixed the HDD recording time and remaining time not calculated correctly.
- Fixed initial XP installation Firefox left click would cause full screen display.
- Fixed remote web live view the HDD full alarm screen showed problem.
- Fixed the real-time preview click moving the bar would black screen or stall the process.
- Fixed using IE8/9 the login screen display error.
- Fixed alarm email snapshot not with correct time.
- Fixed webGUI the second HDD property settings failed.
- Fixed the name of the device showed GXV3550 for GXV3552.

### ENHANCEMENTS

- Added GVR355X Open Door feature peering with Grandstream IP cameras.
- Added pre-recording for Motion Detection.

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Product Name: **GVR3550, GVR3552**

Firmware Release Notes: **Version 1.0.1.25**

*(System: 1.0.1.25; Boot: 1.0.1.2 Kernel: 1.0.1.19)*

HW Supported: **GVR3550: 1.1A, 1.2A, 1.3A, 1.4A, 1.6A**  
**GVR3552: 1.0A, 1.1A, 1.2A, 1.3A.**

Date: *August 6, 2015*

## SUMMARY OF UPDATES

This is a major update with bugs fixing and features enhancement. Factory Reset recommended after upgrade to this firmware.

This version started including new product GVR3552 and merging all GS NVRs with one FW.

## BUG FIXES

- Fixed WebGUI cannot install the ActiveX.
- Fixed NTP server no response to other IPCs sometimes.
- Fixed false popup tip message when using local HTTP upgrade.
- Fixed downgrade FW might cause no adaptive HDMI or VGA output at LocalView UI.
- Fixed the network information displayed incorrect when the device using "static IP".
- Fixed playback via IE browser, the drag will display abnormal at 24 hour frame.
- Fixed the disconnect icon showed abnormal when modify IPC encoding setting parameters to MJPEG.
- Fixed disconnected cameras at Channel Management having issue to be listed when researching.
- Fixed after log in by right clicking to use Setup Wizard would pop up message to ask credential again.
- Fixed "Maintenance" page the PING result won't be cleared after moving to other pages.
- Fixed single channel playback the volume may become 0.
- Fixed modification of the date & time may disable the NTP server.
- Fixed network information displayed incorrect when using Static IP.
- Fixed remote HTTP upgrade finished the reboot page stalled.
- Fixed factory reset will wipe out multicast group information.
- Fixed HDD management the RAID1 array cannot be created via webGUI.
- Fixed LocalView and remote GUI upgrade page displayed information not synchronized.
- Fixed wrong sorted display of SN at Channel Management page.
- Fixed the test email helping tips with wrong wording.
- Fixed local live view the NVR will have no audio output when click to open the voice icon.
- Fixed device crash when configure Alarm and link the "HDMI" to "camera event" or "IO alarm".
- Fixed modifying time zone the alarm linkage email would fail.
- Fixed set to alarm duration to 1 second the alarm would not stop.
- Fixed webGUI creating volume would prompt "create volume fail" but refresh will see the progress bar.
- Fixed enable DHCP server and multicast but reboot the device the DHCP server still not enabled.
- Fixed Local Preview when opening channel audio and click "+" icon to add IPC, audio is closed.
- Fixed LiveView after adjusting the position of preview panel the video with "MJPEG" not change.

- Fixed the device cannot read multiple HDDs at ESATA interface.
- Fixed in the email sending out the IP address of the equipment will show "none".
- Fixed alarm snapshot when sending out via email the time stamp is not correct.
- Fixed the file name with the time when alarm snapshot taken is not synchronized with system time.
- Fixed disable all beeps function will not work reliably at LocalView GUI.
- Fixed Quick Configuration completed the device will switch to 16 window and reboot.
- Fixed firmware downgrade to V1.0.1.17 or before will screw up the password.
- Fixed when manual upgrade with wrong file then the manual upgrade will always fail.
- Fixed when one of the HDD taken out the HDD management still shows it in the array.
- Fixed set time button failure at Backup
- Fixed Playback the video progress bar displayed is not accurate with the time.
- Fixed GVR3552 the fan always running.
- Fixed Search function at GSurf\_Pro V2 will not find GVR355x.
- Fixed reset a channel alias will least to reset all aliases.
- Fixed Channel Management when changing from Grandstream to ONVIF the port will not add 8000.
- Fixed the login webpage display unaligned with IE8/IE9.
- Fixed Mail Server configuration error but test email still shows successful.
- Fixed when adding to max. 31 local users, the web and local GUI got screwed and not display correctly.
- Fixed the device may fall into reboot loop when adding an empty HDD.
- Fixed using UPnP mapping address to access the device the webGUI language may be wrong.
- Fixed device would crash if playing back 4 channels with more than 1080p resolution.
- Fixed when playback resource is not enough white screen is displayed when switched to full screen.
- Fixed at LocalView when change the channel the IPC audio channel will not close.
- Fixed time adjustment parameters will not get saved after reboot will lost all the changed setting.
- Fixed device not support ONVIF cameras with resolution more than 1080p.
- Fixed the video cannot be previewed when there are more than 2% packet loss.
- Fixed the video may pause when playback video with resolution more than 1080p.
- Fixed the issue that DHCP server and NTP server cannot be used.
- Fixed Channel may disappear at Local View Control.
- Fixed at remote WebGUI playback the abnormal display when switching from single to four screens.
- Fixed GVR3550 cannot disable the full day schedule.
- Fixed audio bar grayed out when switching between single and four split screen playback.
- Fixed hot unplug USB interface will cause the WebGUI side stop control of the port.
- Fixed manually local upload file to upgrade the device will stall and manual reboot required.
- Fixed the EPTZ cannot be closed when switch to PTZ playback and exit.
- Fixed invalid PPPoE would generate error in the interface.
- Fixed the device will crash when 1<sup>st</sup> stream of the IPC is configured MJPEG.
- Fixed IP cameras not using default port 80 cannot be added.
- Fixed adding IPCs at Local and Remote at the same time will confuse the screw up the device.
- Fixed the GUI interface frozen when import local configuration file.
- Fixed the HTTP/HTTPS port can be configured to "0".
- Fixed QR Code still use default password even the administrator password changed.
- Fixed abnormal pause when playback the recorded videos.
- Fixed playback screen messed up when playing one frame at a time, rewind then play and repeat.

## ENHANCEMENTS

- Improved setup wizard by adding “Quick Setup” procedures.
- Added option of PlayBack Search via specific time at hour and minute.
- Support adding cameras via domain name.
- Added option to select PlayBack at LocalView UI by right click the mouse.
- Aligned the web display layout of Network Security setting.
- Added feature to remind new FW upgrade when configured and enabled.
- Revised wording of HDD info to “Left Time to Record”.
- Added hints when creating the array of HDDs.
- Added system warning when log in with default password.
- Added deleting previous page cache from old version of plugin and update the page.
- Added Open Door feature when binding with Grandstream IP Cameras with latest firmware.
- Allowing IP Camera 1<sup>st</sup> stream recorded with H.264, 2<sup>nd</sup> stream using MJPEG for remote view without popping error at NVR but not displayed at NVR due to MJPEG not supported.
- Added ability to import format incorrect configuration file.
- Added warning before creating new petition and formatting the HDDs.
- Added prompt message when no more HDD space available for recording.
- Revised wrong tip wording when the HDD is empty.
- Revised the VLAN tooltips language wording.
- Remark added when selecting unsupported video code and resolution.
- Added prevention to avoid HDDs be deleted when under recording mode.
- Enhance the mail setting by allow max. 20 for name and 40 for subject in characters.

## KNOWN ISSUES

- N/A.

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Product Name: **GVR3550 Network Video Recorder (NVR)**

Firmware Release Notes: **Version 1.0.1.14**

(System: 1.0.1.14; Boot: 1.0.1.0 Kernel: 1.0.1.10)

HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.6A

Date: May 1<sup>st</sup>, 2015

## SUMMARY OF UPDATES

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

## BUG FIXES

- Fixed volume can be deleted w/o stopped first while it under recording.
- Fixed 16TB not supported as one RAID0 volume when four 4TB HDDs composed.
- Fixed abnormal preview display when prompt of "IP Conflict" and "HDD Error" alarm and beeping.
- Fixed PPPoE user name and password exceed max. allowed number would crash the system.
- Fixed DDNS type not match with the one taking effect.
- Fixed "IPC IO" alarm message not distinguished at Channel Management.
- Fixed failure to play live view stream remotely via webGUI.
- Fixed the Plug-in memory leak when opening recorded files via Web.
- Fixed using different frame rate to record the downloaded file playing back at computer is abnormal.
- Fixed at DHCP mode enable/disable VLAN setting may unexpectedly crash the system.
- Fixed time may display at abnormal position when set the time display location then power-off and then restart the system.
- Fixed mounted two USB device, un-mount one and then re-mount one may cause incorrect display.
- Fixed no hint will be provided at Channel Management when opening voice function for unsupported IPC.
- Fixed last two video may not be locked if choosing lock all videos.
- Fixed not be able to add ONVIF compatible cameras.
- Fixed import correct configuration file may prompt error on the webGUI.
- If NTP server set to NULL the default address would be used after reboot.
- Fixed same IP address maybe used when adding IPC and adding Encoder/DVS.
- Fixed at playback mode video will delay to play when lots of video files exist.
- Fixed Channel Alias not update after rebooting without login.
- Fixed if username of IPC with 20 or more Chinese characters would fail IPC connection via ONVIF.
- Fixed Live View with 2Mbps stream via DVS would cause frequently disconnection when preview video.
- Fixed fail to get GXV3611IR\_HD coding parameters at Channel Management.
- Fixed DVS username and password cannot be modified when added via Channel Management.
- Fixed by switching Grandstream IPC to ONVIF, port will not automatically add 8000.

## ENHANCEMENTS

- Local GUI will pop up the tips when search system log.
- Reset the I-frame interval to empty when connecting IPC via ONVIF or video codec using MJPEG.
- Enhanced full screen view using primary stream automatically.
- Improved the unreasonable “Region Config” mechanism.

## KNOWN ISSUES

- N/A.



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Product Name: **GVR3550 Network Video Recorder (NVR)**

Firmware Release Notes: **Version 1.0.1.10**

(System: 1.0.1.10; Boot: 1.0.1.0 Kernel: 1.0.1.8)

HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.6A

Date: *March 11, 2015*

## SUMMARY OF UPDATES

This is a major update with bugs fixing and features enhancement.  
Factory Reset recommended if any abnormal observed after upgrade.

## BUG FIXES

- Fixed system may crash when click the “save” button on the NTP server interface.
- Fixed “Channel Config” connecting via ONVIF, the video codec cannot switch from MJPEG to H.264
- Fixed “Local View” to uninstall USB the function failed.
- Fixed “Camera Management” clicking the check box the number of cameras sorted may not change, and the warning prompt of “Delete All” may not popup.
- Fixed when check the Open VPN ports, device cannot display real-time status of sending/receiving.
- Fixed the NVR still shows port 80 even if the IP camera not using port 80; also in the webGUI no limitation for port number configuration.
- Fixed remotely modify Date and Time the NVR might crash.
- Fixed ONVIF connecting camera and modifying I frame the GUI might crash.
- Fixed Playback when querying the date w/o a label the prompt will not pop up.
- Fixed schedule with overlap time can still be saved.
- Fixed delete “User” in the middle of the user list will generate displaying error for next users.
- Fixed remote HTTP firmware upgrade, reboot will make the NVR behave abnormal.
- Fixed adding new schedule will disable the holiday schedule.
- Fixed modify configuration of camera via webGUI while ONVIF also connected to same camera the device will pop error message “Operation Fail”.
- Fixed switching Playback between 4 screens and 1 screen multiple times might abnormal the Playback.
- Fixed enable buzz beeping would affect cursor and remote control operation.
- Fixed Replay recorded video the OSD time jumping and video frozen issue.
- Fixed memory leaking, preview abnormal after doing batch Add and Delete cameras multiple times.
- Fixed some channels may disconnect when all 24 channels at web remote preview.
- Fixed wrong icon used when detecting the IP Camera firmware version returns NULL.
- Fixed 2<sup>nd</sup> stream cannot switch from H.264 to MJPEG at Channel Management from WebGUI.
- Fixed real-time preview of primary stream could crash the browser.
- Fixed EPTZ will use 1280 \* 960 resolution via remote WebGUI
- Fixed lost audio when manipulating the audio volume.
- Fixed “Live View” right-click to switch steaming type sometimes not pop up.

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- Fixed video backup process might be failure.
  - Fixed local and web displaying the HDMI frequency with resolution as 480p typo.
  - Fixed VLAN tag and priority value input have some problems.
  - Fixed web live view the TCP/UDP mode switching is invalid.
  - Fixed Alarm Email delivery time is not correct.
  - Fixed factory reset to retain network data but network security setting got cleared.
  - Fixed when unsupported MJPEG video codec used the “Encoding Config” page displayed different value between Local and WebGUI. And set video codec to MJPEG would fail.
  - Fixed original and result backup files with different package file size.
  - Fixed when revised the HTTP port, switching to HTTPS fail to use the default port.
  - Fixed the process would be frozen w/o prompt when unplug the USB disk during the export/downing file from HDD to USB.
  - Fixed the video backup process would fail if the MIPs overflowed.
  - Fixed GUI staled after Alarm I/O alarming for long period of time.
  - Fixed Import and Export configuration file would fail on WebGUI.
  - Fixed incorrect firmware server path via TFTP would lead the process fall into loop.
  - Fixed after finishing playback the cursor not back to zero.
  - Fixed MJPEG will not show red (unsupported) when connected via ONVIF.
  - Fixed holiday details will displayed incorrectly when disable the Holiday Mode.
  - Fixed video clips and backup video using the same path to save.
  - Fixed primary stream using MJPEG the 2<sup>nd</sup> stream codec will also display error on webGUI.
  - Fixed multi-language switching will fail at webGUI.
  - Fixed using 802.1x the device will not get IP by failing device authentication.
  - Fixed manually add IP Camera on webGUI the default value failed to update.
  - Fixed webGUI Live View the frame jumping and ghosting image issue.
  - Fixed video quality issue during Replay.
  - Fixed no audio issue when webGUI Live View with remote recording with primary stream.
  - Fixed Record Replay doing one frame FF/FB operation the playing index jumping error.
  - Fixed frame rate interval not matching would cause FF/FB speed different (8x, 16x speed).
  - Fixed multiple computers remote previewing same channel over TCP would fail.

## ENHANCEMENTS

- Improved system performance.
- Added GXV3504 support, the GXV3504 4 channels treated as 4 cameras.
- Added RTSP session interval via remote web access.
- Added “All Day” event schedule support.
- Added manually turn “Off/On” the beeping by press “<” and “>” button simultaneously at front panel. Also added local GUI right click support to turn “Off/On” the beeping when alarm happened.
- Added support of 3<sup>rd</sup> party remote controller.
- Added prompt warning when trying to delete all presets.
- Added prompt warning when detecting interface configuration confliction.
- Added prompt warning when failing to decode 4 channel FHD video.
- Added prompt warning when remain storage is not enough.

## KNOWN ISSUES

- N/A.

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Product Name: **GVR3550 Network Video Recorder**

Firmware Release Notes: **Version 1.0.0.72**

(System: 1.0.0.72; Boot: 1.0.0.5 Kernel: 1.0.0.47)

HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.6A

Date: November 21, 2014

## SUMMARY OF UPDATES

This is a major update with bugs fixing and features enhancement since initial public release.

### BUG FIXES

- Fixed remote browser access the plugin crashing issue at Window 7 and Windows 8.
- Fixed preview failed when connecting PPPoE directly.
- Fixed FQDN or IP address of UPnP remote access will fail after running long time.
- Fixed backup video from GXV3611\_HD cannot be replayed.
- Fixed issues with some DDNS providers.
- Fixed the device non-response if the DHCP server changed configuration.
- Fixed GUI crashing when fast switching the preview panel
- Fixed device will crash when using ONVIF protocol connecting IP camera.
- Fixed the probably kernel crashing issue when frequently fast reconnecting web preview.
- Fixed part of the channels will show black screen if not closing the preview icon.
- Fixed the profile error when using remote access to export the configuration.
- Fixed in SSH mode set HTTP/TFTP upgrade the process will fail.
- Fixed holiday schedule configuration the different edit boxes overlay.
- Fixed playback using name tag query will fail.
- Fixed camera management codec cannot be changed from H.264 to MJPEG via ONVIF.
- Fixed local encoding configuration interface some issues with channel management.
- Fixed factory reset will change the recording time.
- Fixed synchronization IP camera time is abnormal.
- Fixed patrol mode will sometime automatic stop and system will crash.

### ENHANCEMENTS

- Improved remote preview performance at some bad network environment.
- Improved RTSP reconnecting timer from 30 seconds to maximum 5 minutes.
- Added HDD POST checking timer to increase stability.
- Added DHCP used then the IP address will be checked for validation.
- Improved Alarm Status Interface.
- Added NAT support.
- Blocked MJPEG configuration at Encoding Configuration because it is not supported.
- Enhanced performance and added limitation and recommendation to certain scene.

### KNOWN ISSUES

- IE10 preview with more than 13 display panel the replay, channel layout out of order.

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Product Name: **GVR3550 Network Video Recorder**

Firmware Release Notes: **Version 1.0.0.58**

*(System: 1.0.0.58; Boot: 1.0.0.3 Kernel: 1.0.0.38)*

HW Supported: 1.1A, 1.2A, 1.3A, 1.4A

Date: *September 9, 2014*

## **SUMMARY OF UPDATES**

This is the initial public release of GVR3550.

## **BUG FIXES**

- Fixed system crash when modifying IP access of GVR3550.
- Fixed resource will not be released when open web preview w/o network
- Fixed no sound when replaying the downloaded recording file.
- Fixed holiday duration display incorrect when only input start time or end time.

## **ENHANCEMENTS**

- Added DDNS registration status display.
- Added regional configuration via remote controller.
- Added electronic zooming function.

## **KNOWN ISSUES**

- N/A.