

# **ACTi Standalone NVR**

**MNR-030-V5.08.00.09-AC**

**Release Notes**



**ACTi**  
Connecting Vision

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# Firmware Version

Firmware Version: **MNR-030-V5.08.00.09-AC**

Release Date: 2025.11.19

## New Features

1. (V5.08.00.09) Support AAC audio compression.
2. (V5.08.00.09) Supported new models by ONVIF integration: A912.
3. (V5.08.00.08) Added support for Smart Motion Detection event from camera models.
4. (V5.08.00.08) Added support for RTSP live streaming and synchronized playback on each channel by using URL commands.
5. (V5.07.04.00) Supported new models by ONVIF integration: A428, A429, Z322, Z413, Z415, Z416, Z722, Z730, Z958, Z959, VMGB-410, Q84,
6. (V5.07.04.00) Supported new models: A422, A76.
7. (V5.07.04.00) Added support for ALPR event from camera models such as A426.
8. (V5.07.04.00) Added support Temperature Alert event from camera models such as VMGB-359.
9. (V5.07.04.00) Added customizable duration of Camera Network Loss event to trigger email notifications.
10. (V5.07.02.00) Enable Local GUI layout control via be UI.
  - Added "Synchronize view tab data to local server" button in the work bar.
  - Added "Synchronize view from Local" button under *Setup > System > Local Display*.
  - Added "Save to Local and Start" and "Stop Local Patrol" buttons in the Patrol configuration page.
11. (V5.07.02.00) Support H.265 streaming and PTZ functions across multiple browsers.
12. (V5.06.02.03) Support the maximum layout up to 4x4 across multiple browsers, such as Google Chrome, Microsoft Edge and Apple Safari.
13. (V5.06.02.03) Supported new models by ONVIF integration: Z39, Z310, Z47, Z49, Z72, Z714, Z86, Z87, Z810, Z98, Z952. A956.
14. (V5.05.02.03) Support basic Live View function with cross browser compatibility.
15. (V5.04.02.31) Supported new models: A421, A817

16. (V5.04.02.31) Support video function for new models Z38, Z39, Z48, Z49, Z72, Z85, Z86, Z97 and Z98.
17. (V5.04.02.09) Support NG Systems X-Assist X3200 USB CCTV joystick
18. (V5.04.02.09) Support IPv6 connection for remote access
19. (V5.04.02.02) Supported new camera models: A71, A74, A310, A311, A416, A418, A811, A818
20. (V5.04.02.02) Add 'Display Context' settings for Local Display configuration in Local and Remote UI to hide or show the camera name, IP address, mouse cursor, etc..
21. (V5.04.02.02) Add 'Video Adjustment' function in camera setup page to update the video settings, such as Brightness, Contrast, Saturation and WDR.
22. (V5.04.02.02) Add 'Copy Configurations' in camera setup page to apply the same settings, including scheduler, event and video settings, to selected camera model.
23. (V5.04.02.02) Support SNMP v1/v2/v3, MIB-2 and Traps, including Cold Start, Warm Start and Authentication Fails.
24. (V5.04.02.01) Support built-in TV Wall server and integrate with CMS server.
25. (V5.04.02.01) Add Basic Mode and Expert Mode in PoE setup page, providing fixed or adaptive power consumption per PoE port.
26. (V5.04.02.01) Polygon motion configuration is also now supported for local user interface.
27. (V5.04.02.01) Implement Multicast Streaming for ONVIF Profile S.
28. (V5.04.02.01) Support output 4k2k to TV monitor, and provide HDMI output format selection with 1920x1080 24P/25P/30P/50P/60P/50i/60i, 3840x2160 30P and Auto mode.
29. (V5.04.02.01) Support intercom function while detected touching push-button on Q950, Q951 and Q970.
30. (V5.04.02.01) Support License Plate Recognition with VMGB-400 camera and MGB-150 server.
31. (V5.04.02.01) Add open door button on user interface for Q950/Q951 intercom models.
32. (V5.04.02.01) Support fisheye dewarping function on local user interface.
33. (V5.04.02.01) Add "Schedule reboot" function in System event list, to reboot server and all used camera devices by scheduler, including daily, weekly, monthly or yearly.
34. (V5.04.02.01) Add 'Network subnet conflict' and "PoE Power Overload"

- in System event list.
- 35.(V5.04.02.01) Automatic switching to higher resolution stream when changing to single view mode for camera with dual streams.
  - 36.(V5.04.02.01) Support account lockout for 5 minutes after 3 failed authentication attempts.
  - 37.(V5.04.02.01) Supported export video to SAMBA, ISCSI and NFS external storages.
  - 38.(V5.04.02.01) Enable full screen on local display after system booting up.
  - 39.(V5.04.02.01) Add network IP address in the default content for Email Notification.
  - 40.(V5.03.02.01) Support event response to enlarge designated channel on local live screen.
  - 41.(V5.03.02.01) Fully support USB joystick from local and remote UI.
  - 42.(V5.03.02.01) Support camera firmware upgrade from Download Center through internet service provider.
  - 43.(V5.03.02.01) Optical and Digital PTZ function fully supported via local and remote UI.
  - 44.(V5.03.02.01) Added the channel options to be able to select the video channel of ECD devices.
  - 45.(V5.03.02.01) Support Ralink RT3092 Wi-Fi module
  - 46.(V5.03.01.01) Supported new model: Q970 intercom camera
  - 47.(V5.03.01.01) Support MNR firmware upgrade from Download Center automatically, manually or by the particular time (hour, minute) every day, week or month.
  - 48.(V5.03.01.01) Added 16H format card UID for access control devices, such as Q950 and Q951.
  - 49.(V5.03.01.01) Support Audio-in function and improve the quality of Audio function.
  - 50.(V5.03.01.01) Supported License Plate Recognition event detection from ACTi ALPR Server 2
  - 51.(V5.03.01.01) Added MAS address and account setting to send MNR messages to MGB Service SDK for MAS/MGB products integration.
  - 52.(V5.02.03.00) Supported Q950 and Q951 door stations with card reader, event handling, group and user management.
  - 53.(V5.02.03.00) Support CMS future version v2.0.12
  - 54.(V5.02.03.00) Supported PoE power budget control setting from local site.

- 55.(V5.02.03.00) Supported MNR system event handling
- 56.(V5.02.03.00) Support CMS v2.0.11
- 57.(V5.02.03.00) Supported daylight saving function
- 58.(V5.02.03.00) Supported local fisheye dewarping for B59(A), B74(A), B76(A), B511(A)
- 59.(V5.02.03.00) Added Bookmark functions in local UI
- 60.(V5.02.03.00) Supported permission control
- 61.(V5.02.03.00) Support LISA-U200 LTE+GPS functions.
- 62.(V5.03.02.00) Support EC25-V LTE function.
- 63.(V5.03.02.00) Support sending GPS data to the remote HTTP server.
- 64.(V5.03.02.00) Added "Talk to Camera" function in local UI.

## Enhancement

- 1. (V5.08.00.08) Added the option to enable or disable Internet Explorer (IE) mode. The default is disabled for security concerns; it can be enabled to use IE browser for better decoding performance.
- 2. (V5.08.00.08) Improved compatibility with newer cameras using ONVIF connection, such as audio connection.
- 3. (V5.08.00.08) Improved the ONVIF connection compatibility with newer camera models, resolving issues such as audio connections.
- 4. (V5.08.00.08) Improved compatibility with CMS2 and optimized system log search performance.
- 5. (V5.07.04.00) Improved Compatibility with CMS2
  - support ALPR events.
  - support Temperature Detection events.
  - support for Send to Wall event in TV-WALL mode.
- 6. (V5.07.04.00) Support Audio (Listen from Camera/Talk to Camera) across multiple browsers, such as Google Chrome, Microsoft Edge and Apple Safari.
- 7. (V5.07.04.00) Improved the system stability with ONVIF-compatible cameras.
- 8. (V5.07.02.00) Update ActiveX objects to V1.0.3.128/1.0.2.120.
- 9. (V5.07.02.00) Disable SSLv2 & SSLv3 on HTTPS server.
- 10.(V5.06.02.03) Support the alarm action is triggered by motion event from the camera with ONVIF integration.
- 11.(V5.06.02.03) Support WDR setting in ONVIF video adjustment on Local GUI by ONVIF integration.
- 12.(V5.06.02.03) Support the audio-in function for Z32.

13. (V5.05.02.03) Add IP address of remote client in the Log with user login and logout.
14. (V5.04.02.31) Support PTZ function for camera model A950.
15. (V5.04.02.31) Support camera model EZN3260-J60 and TB4570-M
16. (V5.04.02.31) Replace "GOV Length" by "GOP 1 I-Frame" to setup the occurrence rate of I-frames in seconds.
17. (V5.04.02.31) Support sending local HDMI output stream to ECD-200 decoder with ECD new firmware v5.03.02.31 by cross connection function on ECD-200.
18. (V5.04.02.31) No 24-hour period limitation anymore for video exporting from remote web client.
19. (V5.04.02.31) Add "System Name" field in system page into the file name of backup configuration file.
20. (V5.04.02.31) Change encoding to Unicode UTF-8 for sending messages by e-mail
21. (V5.04.02.10) PTZ functions such as Pan, Tilt, Zoom and Preset points on remote UI will be able to vary for different camera models.
22. (V5.04.02.09) iSCSI stability improvement
23. (V5.04.02.09) Support URL command to get camera stream from MNR server.
24. (V5.04.02.09) Support motion detection event for camera models A71, A74, A310, A311, A416, A418, A811 and A818.
25. (V5.04.02.09) Support TLS1.1 and TLS1.2 for self-signed certificate
26. (V5.04.02.09) Support Paxton Net2 camera through ONVIF integration
27. (V5.04.02.02) The maximum password length for account is restricted to 6 to 63 characters for password strength enhancement.
28. (V5.04.02.01) Add device IP information in the E-mail default context.
29. (V5.04.02.01) Support Temperature Alert of VMGB-351
30. (V5.04.02.01) Support Tampering detection of Q450.
31. (V5.04.02.01) Support Tampering and Enter Area detections of Z41, Z42, Z83, Z84 and Z95.
32. (V5.04.02.01) Support Tampering, Line Crossing, Enter Area, Face detection and Audio detection of Z81 and Z82.
33. (V5.04.02.01) HTTPS by self-signed certificate file is enabled as default.
34. (V5.04.02.01) Show camera's MAC address in system log when adding camera to server.
35. (V5.04.02.01) Add "Reserve Network Configurations" option to factory

- default settings
- 36. (V5.04.02.01) Support the system configuration restoring from the video record HDDs.
  - 37. (V5.03.02.10) Supported Tampering detection of VMGB-102, VMGB-400, VMGB-401 and VMGB-500 by ONVIF integration.
  - 38. (V5.03.02.10) Supported Line Crossing, Enter Area and Exit Area detections of VMGB-400 and VMGB-500 by ONVIF integration.
  - 39. (V5.03.02.04) Language updated for Traditional Chinese
  - 40. (V5.03.02.04) Support firmware upgrade from IP Utility
  - 41. (V5.03.02.04) Support the 3rd-party camera model MU-IP6693
  - 42. (V5.03.02.01) The warning for CPU overloading will be changed from pop-up window to display on view tab.
  - 43. (V5.03.01.01) System stability improvement
  - 44. (V5.02.03.00) Audio quality improvement

## Issue Solved

- 1. (V5.08.00.08) Fixed an issue where activated ENR/ECD devices were locked after being scanned three times by IP Utility.
- 2. (V5.08.00.08) Fixed an issue where IP Utility could not correctly detect the activation status of ENR/ECD devices.
- 3. (V5.08.00.08) Fixed the logic of "Recycle Days" to properly delete expired recordings from all HDDs.
- 4. (V5.08.00.08) Fixed an issue where existing ONVIF profiles could not be edited.
- 5. (V5.08.00.08) Fixed an issue where pressing the Esc key did not exit full screen mode in Cross-Browser Web UI such as Google Chrome.
- 6. (V5.07.04.00) Fixed the issues with Digital Output (DO) and TV Wall functions when integrated with CMS2.
- 7. (V5.07.04.00) Fixed the issues with Next Event / Previous Event navigation on Web UI.
- 8. (V5.07.04.00) Fixed an issue where the A713 camera could not support Talk to Camera properly.
- 9. (V5.07.04.00) Fixed the volume issue on the Local Audio Output interface.
- 10. (V5.07.02.00) Fix the compatibility issue with iSCSI,
- 11. (V5.07.02.00) Fixed IE layout limitation, restoring 6x6 grid support.
- 12. (V5.07.02.00) Fixed ACTi Notification Server (ANS) issue on non-PoE models.

- 13.(V5.07.02.00) Prevented ANS messages from being sent when "No Event Handling" is configured.
- 14.(V5.07.02.00) Disabled fisheye function for A418.
- 15.(V5.07.02.00) Fixed an issue where the streaming port was always displayed as 6002.
- 16.(V5.07.02.00) Ensured Self-Signed Certificate functions correctly on Windows 7.
- 17.(V5.07.02.00) Added support for Sound Detection event on A713.
- 18.(V5.07.02.00) Improved user permission controls.
- 19.(V5.07.02.00) Fixed an issue preventing ONVIF cameras from being discovered via IE browser.
- 20.(V5.07.02.00) Refined WebUI system reboot process.
- 21.(V5.06.02.03) Fix the issue that no live video stream when CMS connects to MNR by HTTPS connection.
- 22.(V5.06.02.03) Fix the issue that the mapping error for preset point number on joystick with 'Goto Preset Point' function on local GUI.
- 23.(V5.06.02.03) Fix the issue that 'Talk to camera' function does not work for Z series cameras.
- 24.(V5.06.02.03) Fix the issue that DNR setting issue on Local GUL for the camera via ONVIF integration.
- 25.(V5.06.02.03) Fix the issue that iSCSI connection failed after changing iSCSI port.
- 26.(V5.06.02.03) Fix the issue that Camera brand becomes ONVIF when adding some ACTi camera models with specific firmware, such as S1.08.
- 27.(V5.05.02.03) Fix the issue that the time resetting to the year 1970 in the title bar of the Internet Explorer when MNR is located within the DST zone.
- 28.(V5.05.02.03) Fix the issue that the Enter Area Detection of some camera models is missing in event setting.
- 29.(V5.04.02.31) Fix the compatibility issue with CMS, such as unable to change camera title name, unable to trigger event responses for "Disk Not Found" and "Disk Available" events.
- 30.(V5.04.02.31) Fix the compatibility issue with Mobile Client, such as always show "New Camera" on the event notification message, and always show 8:00 on the event notification message on iOS.
- 31.(V5.04.02.31) Fixed an issue where Optical PTZ option is missing on local user interface of MNR server to connect with camera models A416, A418, A811 and A818.

- 32.(V5.04.02.31) Fixed the multi-language issue with access control devices on local user interface.
- 33.(V5.04.02.31) Fix the time mismatch in exported video when daylight saving is enabled.
- 34.(V5.04.02.31) Fix the echo sound after changing to full-screen view on remote site.
- 35.(V5.04.02.10) Live view performance issue on remote UI when using video stream 2 or 3 of camera for live view.
- 36.(V5.04.02.09) Fix the wireless connection problem
- 37.(V5.04.02.09) NTP time synchronization issue after reboot
- 38.(V5.04.02.09) Fix event response issue and update IVS event message in remote UI
- 39.(V5.04.02.09) Fix the compatibility issue with Axis camera.
- 40.(V5.04.02.09) Fix the compatibility issue with CMS 2.12
- 41.(V5.04.02.01) Fix system DI binding issue
- 42.(V5.04.02.01) Reduce two-way audio latency
- 43.(V5.03.02.10) Fix the compatibility issue with CMS 2.
- 44.(V5.03.02.10) The instability issue about video exporting and playback function on remote client.
- 45.(V5.03.02.10) Failed to start recording after iSCSI connection recovery.
- 46.(V5.03.02.04) Fix the compatibility issue with Mobile Client for Android
- 47.(V5.02.02.02) Connection issue when camera is using public IP address

## Removed

1. (V5.04.02.01) Remove all default password for server and camera accounts from user interface.

## Remark

1. Please connect monitor before you power on the MNR server.
2. MNR can assign DHCP IP address automatically for cameras within LAN via LAN1 port. For this DHCP server feature, please power on MNR completely first, then boot up cameras.
3. Please make sure IP cameras and MNR are connected to the same network before performing Auto Add cameras operation.
4. Motion detection setting is not available when camera is in ePTZ stream mode or channel ID 2 in dual stream mode.
5. Not support Video Loss events from the video servers

6. Not support "MD Preset" stream mode
7. Not support email attachment with snapshot via Event function if camera resolution or compression is not supported on Local display.
8. To display on Mobile Client through MNR server only accept the camera using H.264, H.264 video compression and 1920 x 1080 or below resolution.
9. Some of SMTP service providers upgraded the SSL/TLS versions will cause sending event mail problem from MNR. If you wish to use a free webmail SMTP service, you may choose certain webmail providers such as Yandex(<https://mail.yandex.com/>).
10. Please find the compatible hard disks with ACTi standalone NVR products via ACTi Hard Disk Selector(<https://www.acti.com/hddselector>)
11. The video recording will include the audio from camera to MNR but without from MNR to camera.
12. Some of user interface had not been translated completely into multiple languages yet except English.
13. The supported USB joystick included ACTi PJSK-0100 and Logitech Extreme 3D Pro.
14. The camera firmware auto upgrade function is available for minimum camera firmware version V6.14, V7.05, V8.03, V9.04, A2.03 and A3.03.  
(If camera firmware version is V6.10~V6.13, the camera auto upgrade function will work while the camera must connect to MNR directly via MNR's DHCP server.)
15. The License Plate Recognition event detection requires the monitoring cameras exist in both MNR and ALPR Server 2. The event could be searchable from camera event search panel. The plate number search could be supported on future MNR firmware.
16. The third-party device needs to be compliant with ONVIF Profile S and ONVIF Test Tool version 16.06 or later.
17. The polygon motion configuration is supported on specific models which supported Object-Based Motion detection.
18. The 'Copy Configurations' function is adaptable in the source and target camera are the same model.

- 19.No longer restricted to the maximum only 4 channels for Digital PTZ function on local UI after upgrade to firmware v5.04.02.02 and above.
- 20.Not all features are supported across all web browsers such as Google Chrome, Microsoft Edge, and Apple Safari.
- 21.Not support “enlarging” function for TV Wall via CMS sever.

## Supported Languages

Czech, Danish, English, French, German, Hungarian, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Thai, Turkish, Simplified Chinese and Traditional Chinese.

## Supported Camera Models

For supported ACTi cameras list, please refer to

<http://www.acti.com/UnifiedSolution>

For supported non-ACTi cameras list, please refer to

<http://www.acti.com/3rdpartycamera>

## Supported Control Center

Software	Software Version
CMS2	2.0.12 or later

## Supported Client Application

Application Name	App. Version
ACTi Mobile Client for iOS	1.01 or later
ACTi Mobile Client for Android	1.0.14 or later

# Firmware Upgrade

MNR standalone NVR can be upgraded firmware from local display screen, remote web browser (IE 11) or auto firmware upgrade from ACTi download center.

You may check ACTi corporate website for latest MNR firmware package and download it. Unzip the package and save the \*.upg file to a USB disk or your client computer.

Please note that the USB disk carrying the firmware image should at least have 200 MB free space.

Here is upgrading steps about how to upgrade the firmware image via remote client.

Step 1: Power on the MNR server.

Step 2: Unzip the MNR V5.08.00.09 firmware package and save the file.  
“MNR-030-V5.08.00.09-AC.upg” in the client computer.

System Log is recorded the activities performed by logged-in Users. MNR will not keep original System Log after firmware upgrade. If you want to keep the log, please back up settings before firmware upgrade.

Step 3: Log in the MNR with Administrator account.

On Live screen, click “System Setup” → click “Maintenance” tab → select “Settings Backup/Restore” → click “Backup” to save the current MNR setting.

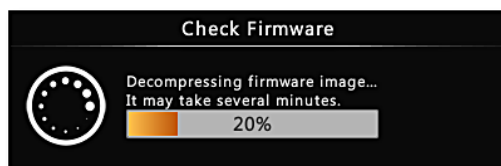
You can refer to “Backup / Restore settings” section in MNR System Administrator's Manual for all details.

Step 4: Before you start to upgrade FW, please keep constant network connection between cameras and MNR server.

Step 5: On Live screen, click “Setup” → click “Maintenance” tab → select “Firmware Upgrade”.

Step 6: Please select the image file “**MNR-030-V5.08.00.09-AC.upg**”.

Step 7: After click “**Submit**” and confirm the system prompts, MNR will start the upgrade process.



During upgrading, the system will stop every other activity including recording and event handling.

Please be noted that after upgrading has started, **DO NOT cut off the system power, network connection or remove the image file until MNR restarts.**

Step 8: The device needs 5 minutes for firmware upgrading, and the system will auto-restart and keep the previous MNR settings after the upgrading completes.

You may check the current firmware version on “System Setup” → click “System” tab → select “Information”.

## Download and Documentation

You may check MNR products in “Video Management System” -> “Standalone NVR” section on ACTi corporate website or visit ACTi Download Center <http://www.acti.com/downloadcenter> for updates or release information about this firmware and documents.

## Support

If you have any question or need additional assistance, please feel free to contact our engineers via our **Customer Help Desk** platform <http://www.acti.com/CHD>