



ACTi NVR 3 Corporate

Release Notes

Version 3.0.16.88



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Software Version

NVR 3 Corporate Server version: v3.0.16.88

NVR 3 Corporate Workstation for Windows version: v3.0.16.88

New Features

1. (V3.0.16.88) Added support for LINE Messaging via Channel Token for LINE notification. (The additional license "LLIN3000" is required)
2. (V3.0.16.88) Added "Continuous Duration (secs)" setting of Camera Network Loss event to trigger email notifications.
3. (V3.0.16.88) Added schedule event handling settings for extended devices, including POS, Access Control, and Network I/O.
4. (V3.0.16.88) Added support for Parking Space Recognition event from VMGB-410.
5. (V3.0.16.88) Supported new models: A313, A314, A422, A423, A76, A77, A820, A821, A213, A425
6. (V3.0.16.88) Supported new models by ONVIF integration: A313, A314, A422, A423, A76, A77, A820, A821, A427, A428, A429, A711, Z413, Z730, Z958, Z959, Q83, Q84, VMGB-359, VMGB-410.
7. (V3.0.16.88) Integrated with ACTi Modbus Adapter to receive Alarm and Panic Alarm events.
8. (V3.0.16.54) Supported new models by ONVIF integration: A713.
9. (V3.0.16.54) Support H.265 on multiple browsers such as Google Chrome, Microsoft Edge and Apple Safari.
10. (V3.0.16.54) Support the line crossing event message and event handler with VMGB-359.
11. (V3.0.16.29) Supported new models by ONVIF integration: A956.
12. (V3.0.16.28) Supported new models: A28.
13. (V3.0.16.28) Support Line Notification for event handler to send messages with the snapshots by Line Notify.
14. (V3.0.16.28) Support lite web clients with multiple browsers such as Google Chrome, Microsoft Edge and Apple Safari as lite web clients.
15. (V3.0.16.28) Support HTTPS connection for Server-to-Server, Server-to-Camera and Client-to-Server.
16. (V3.0.16.28) Support RTSP/TCP Streaming Output.
17. (V3.0.16.28) Support Active Directory filtering to quickly find a specific

- account to add it as the NVR user by filter the keyword in the domain.
- 18.(V3.0.16.28) Support Password Expiration Notification to display the warning message when the expiry date is getting closer.
 - 19.(V3.0.16.28) Add a Network Access setting in user settings page for administrator to set a permitted IP address of each NVR user to access the NVR server.
 - 20.(V3.0.16.28) Support Device Group function to bind devices for the convenient management.
 - 21.(V3.0.16.28) Support Edge Storage, Delete OSD Settings, Remote Focus near / far, Cell motion detection setup and Copy function for camera settings, including Media and Motion Detection settings via ONVIF integration.
 - 22.(V3.0.16.28) Support GPU loading detection, Memory limit exceeded (Server PC, media server, schedule service), CPU limit exceeded (Media server, schedule service), Network interface usage (Server PC), S.M.A.R.T failure and normal, and Camera Disk Write Failure and Available for event trigger functions.
 - 23.(V3.0.16.28) Support Hardware Acceleration for exporting AVI and MP4 (NVR workstation only).
 - 24.(V3.0.16.28) Support Schedule Backup function to set the start time and keep backup days to backup configurations by weekly.
 - 25.(V3.0.15.71) The installation package supports Silent Installation mode by running **setup.exe /s** in the command line.
 - 26.(V3.0.15.71) Supported new models by ONVIF integration: Z38, Z98, Z952, Z810
 - 27.(V3.0.15.71) Supported new models: A421, A817
 - 28.(V3.0.15.67) Support the maximum number of layouts from 4-channel to 64-channel for NVR Media Player.
 - 29.(V3.0.15.67) Supported new models by ONVIF integration: Z36, Z37, Z71, Z710, VMGB-352
 - 30.(V3.0.15.62) Supported new models: B78
 - 31.(V3.0.15.62) Support motion setting and event handler functions with new camera firmware version A8.00.
 - 32.(V3.0.15.57) Supported new models: A45, A46, A86, A310, A311, A416, A418, A71, A74, A811, A818
 - 33.(V3.0.15.57) Add PNG and BMP formats when exporting image.
 - 34.(V3.0.15.50) Support camera model Q75 by ONVIF integration
 - 35.(V3.0.15.49) Supported new models by ONVIF integration:

- ACTi: Z33, Z34, Z41, Z42, Z83, Z84, Z94, Z95
- 36.(V3.0.15.49) Added event handler and Map functions for Gunshot Detection.
- 37.(V3.0.15.49) Support People Appearance detection on Event panel, Event handler, Event search and Map, with using clothes color detection of MGB-194 Metadata Generator Box. MGB-194 can detect red, yellow, green, blue, white, black and gray colors in clothes on the upper or lower body.
- 38.(V3.0.15.46) Supported new models: A415, A815
- 39.(V3.0.15.46) Support video stream from A75, A89, A413, A45, A85, A46, A86 new camera models
- 40.(V3.0.15.46) Support Pixel to PTZ function on A950
- 41.(V3.0.15.44) The login account will no longer have the default password, and the NVR will require a user to set a new password before access the NVR for the first time.
- 42.(V3.0.15.38) Supported new models by ONVIF integration:
ACTi: A310, A311, A71, A74, A416, A418, A811, A818
- 43.(V3.0.15.38) Added Gunshot Detection on Device setup and live.
- 44.(V3.0.15.34) Supported People Detection, Face Detection and Car Detection on A44 and A84 with including Event Panel, Event Recording, Map, Event Setup and Event Search.
- 45.(V3.0.15.31) Extend the supported maximum number of video devices from 100 to 200.
- 46.(V3.0.15.22) Added Hardware Acceleration Switcher to select the Auto or Disable mode on NVR Workstation.
- 47.(V3.0.15.08) Support MGB-150 Metadata Generator Box for Automatic License Plate Recognition feature and VMGB-102 metadata camera for Face Recognition feature. (The additional license "LEXD3000" is required per channel.)
- 48.(V3.0.15.08) Supported new models: A44, A49, A84
- 49.(V3.0.14.28) Support ACTi Access Control Enterprise Server for access control integration. The additional license "LEXD3000" is required.
- 50.(V3.0.14.28) Supported new models:
ACTi: A21, A22, A23, A24, A47, A62, A63, A87, A88, A94, A95, A96.
B26, B412, B419, B420, B43, B612, B71, B89, B912, B913, B914, B915, B922, B928, B943.
E17, E79, E911, E99M.

I29, I42, I915, I99.

Q13-K1, Q250, Q33N, Q33P, Q93, Q970.

BlueEyes BE4212P

Brickcom VD-500Ap

- 51. (V3.0.14.28) Supported LPR metadata camera VMGB-400 with Vehicle Detection event
- 52. (V3.0.14.28) Added Tampering detection and Loitering Detector events for ONVIF events.
- 53. (V3.0.14.28) Support Audio Output in ONVIF
- 54. (V3.0.14.28) Added "Snapshot As" dialog to crop and save a snapshot with designated file name and location for image export function.
- 55. (V3.0.14.28) Support H.264/H.265 Hardware Accelerated Decoding.
- 56. (V3.0.13.169) Added "Scale" and "Center Point Calibration" settings of joystick on NVR Workstation software to set the sensitivity value and configure center point automatically or manually.
- 57. (V3.0.13.144) Supported new models: B923
- 58. (V3.0.13.127) Supported H.265 in ONVIF
- 59. (V3.0.13.127) Supported Audio Out function in Event Popup and Instant Playback popup dialog
- 60. (V3.0.13.127) Compatible with ACTi Mobile Client for Android v1.0.13
- 61. (V3.0.13.127) Supported new models: A31, A32, A61, A92, E912, E914, E710, Q951, AV20175DN
- 62. (V3.0.13.92) Supported Z31 and Z91 camera via ONVIF.
- 63. (V3.0.13.89) Supported N-to-N Redundancy feature.
- 64. (V3.0.13.89) Supported ONVIF integration with Sound, Line Crossing and Forbidden Area events.
- 65. (V3.0.13.89) Added the Digital Output of Network DIO in event response when an event occurred.
- 66. (V3.0.13.64) Added Visual Tracking to track an object through pre-configured multiple camera views
- 67. (V3.0.13.58) Supported new models: ACTi-Q950
- 68. (V3.0.13.58) Supported RFID event trigger
- 69. (V3.0.13.45) Supported new models: ACTi- E39, Q94
- 70. (V3.0.13.27) Supported new models:
 - ACTi: A43, A83, B57, B57A, B77, B77A, Q22, Q22-K1, Q31, Q51, Q92
 - IQINVISION IQM31N
 - Panasonic WV-NS202A

- 71.(V3.0.13.27) Supported Thumbnail Search for specific time interval in playback mode.
- 72.(V3.0.13.27) Supported Google Maps
- 73.(V3.0.13.27) Supported Notifications to send text message to mobile device which is registered on notification server.
- 74.(V3.0.13.27) Supported intelligent events from ACTi camera with built-in analytics, including Line crossing, Forbidden Area, Missing Object, Unattended Object, Loitering, Face Detection and Tamper
- 75.(V3.0.13.27) Supported sound detection in event trigger for ACTi cameras with audio-in interface and sound detection function.
- 76.(V3.0.13.27) Supported Video Push Start and Stop in event handler for NVR server and camera
- 77.(V3.0.13.27) Supported Event Confirmation Activation function to add comment for popup event confirmation dialog in Live view and the event can be marked and searched in playback mode.
- 78.(V3.0.13.27) POSNET POS system integration
- 79.(V3.0.13.27) Supported Digital input and output via ONVIF
- 80.(V3.0.13.27) Supported Anti-Aliasing settings
- 81.(V3.0.13.27) Supported font style, font size and font color for OSD settings
- 82.(V3.0.13.27) Supported CPU alarm for event trigger and system log
- 83.(V3.0.13.27) Supported account lockout settings
- 84.(V3.0.13.27) Supported display model settings to choose Live or Playback stream for Instant Playback or Popup windows.
- 85.(V3.0.13.27) Added schedule service start and stop in event trigger function for NVR server.
- 86.(V3.0.12.42) Supported new models: ACTi- B934
- 87.(V3.0.12.38) Supported new models: ACTi: A42, A82, B945, B949, B59A, B511A, B74A, B76A
- 88.(V3.0.12.34) Supported new models: ACTi: Q61, Q81
- 89.(V3.0.12.29) Supported new models:
 - ACTi: A41, A81, C11W, E210, E217, E219, E222, E38, E417, E78, E819, E933, E933M, E936, E936M
B214, B215, B511, B59, B74, B76, B415, B416, B63, B83, B916, B917
I28, I48, I97, I98
Q11, Q13, Q14, Q19, Q112, Q115, Q91
 - Axis Q6000-E

- Panasonic WJ-GXE500, WV-NF284, WV-NW502S, WV-SF336,
90.(V3.0.12.29) Supported auto tracking functions with specific ACTi cameras.
- PTZ Auto tracking (for speed dome camera with firmware v7.00 and later)
 - Digital Auto tracking and Overview, Zoom and Tracking (OZT) (for Hemispheric camera with firmware v8.00 and later).
- 91.(V3.0.12.29) Supported H.265 compression, triple streams and multiple motion detection regions configuration (polygon and excluded regions) for specific ACTi cameras.
- 92.(V3.0.12.29) Added “Hybrid search” to auto search all cameras (ACTi and ONVIF-compliant devices)
- 93.(V3.0.12.29) Supported event message from Video Analytics products such as IVS Server 1, People Counting Server 1 or ALPR Server 2.
- 94.Supported IVS functions: Line Crossing, Enter Area, Missing Object, Unattended Object, Tamper, Incorrect Direction, People Counting and LPR.
- 95.(V3.0.12.29) Supported exporting video with POS event
- 96.(V3.0.12.29) Supported maximum user session settings. Default is unlimited user connections.
- 97.(V3.0.12.29) Supported multiple level view in view panel
- 98.(V3.0.11.07) Supported executable media files for video export function
- 99.(V3.0.11.07) Supported Video Push from ACTi Mobile Client devices with ACTi Mobile Client for Android v1.0.11 version and above.
100. (V3.0.11.07) Supported ONVIF event function (Motion detection)
101. (V3.0.11.07) Supported Windows 10 with IE 11.
102. (V3.0.11.07) Supported new models:
- | | |
|-------------|--|
| IQINVISION: | IQ032S, IQ542S, IQ732N, IQ865N, IQA15NX,
IQeye855, IQA10S, IQeye702 |
| CANON | VB-H41, VB-H610VE, VB-H710F, VB-S30D, VB-S800D, VB-S900F |
103. (V3.0.11.07) Added Web Controller function to set URL address and connect to the embedded website in Live and Playback mode.
104. (V3.0.10.30) Supported new models:
- | | |
|-------------|--------------|
| ACTi: | I47 |
| ETROVISION: | EV8180Q-XD |
| SHANY: | SNC-WDL2132M |
105. (V3.0.10.26) Supported new models:

ACTi: E215, E223, E616, E618, E815, E817, E925
B22, B23, B46, B49
I27

106. (V3.0.10.26) Supported Car Park third-party integration device

107. (V3.0.10.17) Supported new models:

ACTi: E11A, E12A, E13A, E15, E16, E23B, E48, E617,
E816, E924M, E926M, E928, E928M, B210, B410,
B82, I24, I25, I44, I45, I910, V31, V32

Axis: Q6042-E, 241Q, 2400+

AVTECH: AVM500, AVM552, AVM583

Panasonic: WV-SP306, WV-SW395, WV-SW396

Level One: FCS-0030, FCS-0031, FCS-0071, FCS-1041, FCS-
1131, FCS-1135, FCS-1141, FCS-3052, FCS-3062,
FCS-3071, FCS-3081, FCS-3091, FCS-3101, FCS-
3102, FCS-4041, FCS-4101, FCS-4102, FCS-5042,
FCS-5043, FCS-5051, FCS-5052, FCS-5061, FCS-
5062, FCS-6020, WCS-0030, WCS-0050, WCS-6020,
WCS-6050

108. (V3.0.10.17) Supported Bookmark management, Bookmark Search, Bookmark Dialog and export video with bookmark functions.

109. (V3.0.10.17) Supported PTZ function via ONVIF integration

110. (V3.0.10.17) Added GPS settings for NVR server and supported GPS Positioning manual settings for camera with new firmware v6.0.08 and newer versions.

111. (V3.0.10.17) Added specific recording schedule for a single date or a period as long as 400 days.

112. (V3.0.10.17) Added password protection for playback function and supported password validity period setting.

113. (V3.0.10.17) Added new language: German

Enhancements

1. (V3.0.16.88) Supported PFX certificate for enhanced security.
2. (V3.0.16.88) Supported Pixel to PTZ feature for Z952.
3. (V3.0.16.88) Added Z series to the ACTi model list.
4. (V3.0.16.88) Enhanced ONVIF event integration with A952 and Z952, supporting features like Auto Tracking, Missing Object, and Unattended Object.

5. (V3.0.16.88) Updated SDK from Intel Media SDK to Intel VP to improve hardware acceleration performance.
6. (V3.0.16.88) Supported Troubleshooting Utility v1.0.0.08.
7. (V3.0.16.54) Add metadata for system overloading in System log, including CPU, Memory, Network Receive and Network Send.
8. (V3.0.16.54) Change the time period of exporting system log from not exceeding 3 days to unlimited time period.
9. (V3.0.16.54) Support D3D11 and D3D9 options for Hardware Acceleration in Display Performance Setting on NVR Workstation.
10. (V3.0.16.40) Add Login Failed message in System log.
11. (V3.0.16.40) Add the limit of password length is 8 to 127 characters, and meet password complexity policy must contain Uppercase letters, lowercase letters, numbers and special characters.
12. (V3.0.16.40) Add the Digital Signature to the InstallShield installation program, such as setup.exe, Server.msi and Workstation.msi.
13. (V3.0.16.40) Add some messages of System log (e.g., System Status, User Operation) with multilingual translation.
14. (V3.0.16.40) Change the default PTZ movement mode from "Relative Move" to "Continuous Move" for Onvif camera.
15. (V3.0.16.40) Update Content-Type in email snapshot attachment of event handler for third-party integration.
16. (V3.0.16.31) Add "Subscription Type" setting in "Basic" page to receive event notifications in real-time for ONVIF camera by different methods, such as Pull or Push.
17. (V3.0.16.30) system timer of auto-logout function to detect overloading time is extended to 10 mins to avoid auto logout occurring at high frequency when the same event (e.g., Network Send/Receive Limit Exceeded) on the server is happening too often.
18. (V3.0.16.30) Add popup message dialog to show event name and wait for user confirmation before auto logout.
19. (V3.0.16.30) Support for displaying Motion detection event for Avigilon camera with firmware version 3.10.0.152 on NVR event panel by ONVIF integration.
20. (V3.0.16.29) Change the extract path for SQL Server to drive root to avoid SQL Server installation failed due to long named file paths.
21. (V3.0.16.29) Support audio G.726 40 kbit/s.
22. (V3.0.16.29) Speed up the processing time of loading the camera event when user clicks on the Event tab and select for the camera event.

- 23.(V3.0.16.29) Allow different users of Windows Administrators Group to install and upgrade NVR server.
- 24.(V3.0.16.29) Remove the limitation on total system storage size should be 64GB above before NVR installation.
- 25.(V3.0.16.29) Add “Recording Database” in the Maintenance page to scan or rebuild database manually.
- 26.(V3.0.16.29) Add Recording Database Scan Status in System log and Event panel.
- 27.(V3.0.16.28) Add playback speed control options: 1/64, 1/32, 1/16, 1/8, 128 and 256.
- 28.(V3.0.16.28) Added layouts 9x9, 10x10, 11x11 and 12x12 on NVR Workstation.
- 29.(V3.0.16.28) Remove “Attach Snapshot” option from Send Mail event response for camera network loss/recovery event handler.
- 30.(V3.0.16.28) Show an error message after DO response timeout from camera.
- 31.(V3.0.16.28) Support Access Control Integration with Open Options to receive event messages (via NVR plug-in), open and close door (via NVR plug-in)
- 32.(V3.0.15.71) Automatic Retry mechanism enhancement for Redundant Recording services with camera SD card, NVR N+1 and N-to-N services.
- 33.(V3.0.15.71) Support new camera firmware version A1.02 of C11W to support NVR3 redundant recording service.
- 34.(V3.0.15.67) Support Cell motion settings by ONVIF integration.
- 35.(V3.0.15.67) Extended the exported file name to avoid overwriting same file when exporting video files at the same time.
- 36.(V3.0.15.38) Support for playing the video from fisheye camera with not original view on NVR Media Player.
- 37.(V3.0.15.38) Updated the Maximum Limit for efficient database usage.
- 38.(V3.0.15.22) When hardware acceleration decoding failed, NVR will transfer to software decoding automatically.
- 39.(V3.0.15.22) Support hardware acceleration function on decode I frame mode and fisheye dewarping view.
- 40.(V3.0.15.15) Support another Motion Detection method via RuleEngine/MotionDetection/MotionDetection for ONVIF integration.
- 41.(V3.0.15.10) Updated English wording on Extension Event
- 42.(V3.0.14.28) Supported time backward event when NVR server detected backward time shift.

- 43. (V3.0.14.28) NVR Media Player Enhancement
 - support Digital PTZ operation
 - support Fisheye view modes operation, such as Original View, Dewarping, Panorama, Double Panorama, Panorama/Focus and Quad.
 - support take a Snapshot (.jpg) by press hot key "F7" or context menu
 - support Sound detection and Auto Tracking events searchable
- 44. (V3.0.14.28) Added "seconds" to calendar selector
- 45. (V3.0.14.28) Added time zone selection in playback page to view playback by user's local time for convenience.
- 46. (V3.0.14.28) Supported G.726 16, 24 and 32 kbit/s.
- 47. (V3.0.14.28) Supported variable sampling rate and audio channel for PCM audio format.
- 48. (V3.0.13.173) ONVIF connection enhancement
- 49. (V3.0.13.164) The receive timeout is changed from fixed 10 seconds to share the "Connection Timeout" setting. NVR will run the event response when there is no receive data from the connected video device after receive timeout. The minimum value of receive timeout is 5 seconds.
- 50. (V3.0.13.163) ONVIF RTP enhancement
- 51. (V3.0.13.127) Supported any direction operation for mouse PTZ and Joystick.
- 52. (V3.0.13.127) Added 5 Minutes option in thumbnail search
- 53. (V3.0.13.101) The movement sensitivity improvement of PTZ joystick
- 54. (V3.0.13.100) Supported connecting to another server from Workstation login page when the Workstation is running on Windows Embedded 7.
- 55. (V3.0.13.100) Added showing warning message when the free spec detection before beginning NVR installation is not enough.
(The free space of system storage is not less than 10GB, and total system storage must be more than 64GB.)
- 56. (V3.0.13.92) The default session timeout of RTP/UDP is set to 60 seconds.
- 57. (V3.0.13.89) Visual Tracking is moved to Basic setup page.
- 58. (V3.0.13.59) Supported WebSocket protocol
- 59. (V3.0.13.47) Supported to reset invoice number, continuous and daily numbering.
- 60. (V3.0.13.45) User permissions will be merged while user belongs to multiple domain user groups.

- 61. (V3.0.13.45) Supported show POS transaction and search invoice with “0” if the invoice without invoice number,
- 62. (V3.0.13.45) Supported currency unit symbol display (e.g., NT\$)
- 63. (V3.0.13.27) The embedded website addresses for Web Controller function can be displayed or hidden.
- 64. (V3.0.13.27) Supported copy function for user group settings
- 65. (V3.0.13.27) Added Resume Preset Tour time and default PTZ speed settings for PTZ camera
- 66. (V3.0.13.27) Supported “Absolute PTZ” function
- 67. (V3.0.12.39) Added mobile device manually by UUID
- 68. (V3.0.12.29) Supported “Access Allowed” and “Access Denied” trigger events for Access Control devices
- 69. (V3.0.12.29) Supported “Schedule Service Start” and “Schedule Service Stop” trigger events for local server,
- 70. (V3.0.12.29) Added idle time setting for automated logout
- 71. (V3.0.12.29) Added keyword search to find the Domain user group and user.
- 72. (V3.0.12.29) Added camera event search in System log
- 73. (V3.0.12.29) Added PTZ method options such as Serial Hex and URL.
- 74. (V3.0.12.29) Added live stream settings on NVR workstation to decide the stream from camera or NVR directly.
- 75. (V3.0.11.07) Supported 16x playback speed
- 76. (V3.0.10.26) Supported Audio MPEG-4 AAC
- 77. (V3.0.10.17) The maximum pre-event buffer is changed from 5 seconds to 60 seconds, and post-event buffer is changed from 300 seconds to 3600 seconds.
- 78. (V3.0.10.17) Supported embedded instant playback
- 79. (V3.0.10.17) Supported Fisheye Ground mount setting for Fisheye and Hemispheric camera with camera firmware v6.08 and newer.
- 80. (V3.0.10.17) Supported customized motion region color
- 81. (V3.0.10.17) The maximum Pre-Event Recording buffer is changed to 60 seconds (default is 5 seconds), and Post-Event Recording buffer is changed to 3600 seconds (default is 30 seconds)
- 82. (V3.0.10.17) Added camera IR Exposure Compensation in Video Adjustment
- 83. (V3.0.10.17) The PTZ tab will be hide if the ONVIF camera does not support pan, tilt and zoom functions.
- 84. (V3.0.10.17) The number of preset points will be depended on device

capability.

For example

Protocol	number of preset points
ACTi	256
Sony Visca	256
Dynacolor	256
Pelco D/P	32
Vicon	32
Samsung	16

Issue Solved

1. (V3.0.16.88) Resolved slow performance issue on Windows 11 systems.
2. (V3.0.16.88) Fixed issue where Daylight Saving icon did not display as enabled and selected when local PC time was in daylight saving mode.
3. (V3.0.16.88) Fixed ONVIF compatibility for DeskCamera (a virtual ONVIF IP camera).
4. (V3.0.16.88) Fixed issue where focus view controller did not auto-focus the selected device or move scroll bar to the visible area.
5. (V3.0.16.88) Fixed issue where Media Server failed to start due to corrupted Performance Monitor tool requiring a rebuild.
6. (V3.0.16.54) Fixed the scan and rebuild recording database failed.
7. (V3.0.16.54) Fixed the NVR installation failed from a network location and return "invalid signer certificate" error.
8. (V3.0.16.40) Fixed the zoom in/out function not working by center stick of Logitech joystick.
9. (V3.0.16.40) Fixed the performance issue on workstation and web client.
10. (V3.0.16.40) Fixed the performance issue about slow response when scrolling through the timeline to playback.
11. (V3.0.16.40) Fixed the issue about system stopped recording and services would not restart automatically when system is having overloading issue with CPU and Media Server Memory.
12. (V3.0.16.31) Fixed the script error when adding Profile on ONVIF camera.
13. (V3.0.16.30) Fixed the script error when clicking "Add camera manually" from Quick Setup.
14. (V3.0.16.29) Fixed the Media Service is not working to cause live view or recording to fail when user clicked on the "All Camera" from the

playback Calendar.

15. (V3.0.16.29) Fixed the compatibility issue with AMD processors.
16. (V3.0.16.29) Fixed showing script error for Q75 when click motion detection setup button.
17. (V3.0.16.28) Fixed the email notification issue if the SMTP server doesn't require the authentication.
18. (V3.0.16.28) Fixed the exported audio is out of sync when exported video type is player.
19. (V3.0.15.71) Fixed the recording failed after changing the IP address of ONVIF camera in recording status.
20. (V3.0.15.71) Fixed skip frames when video playback rewind by specific operations.
21. (V3.0.15.71) Fixed the motion detection settings issue with specific ONVIF camera.
22. (V3.0.15.67) Fixed choppy and jittery video playback
23. (V3.0.15.67) Fixed the issue that switch page is not working on IE browser or workstation sometimes when double clicking all cameras button.
24. (V3.0.15.67) Fixed the connection failed issue after changing to H265 compression on A950.
25. (V3.0.15.62) Fixed the shutter speed options mismatch with camera models A23, A41, A81 and E17.
26. (V3.0.15.57) Fixed the issue with failed to copy H.265 video quality settings
27. (V3.0.15.57) Fixed the eMap file upload failed when image file name contains special symbol "%".
28. (V3.0.15.49) Fixed the system backup issue from workstation client.
29. (V3.0.15.49) Fixed the compatibility issue with Z95.
30. (V3.0.15.49) Fixed the hardware acceleration decoding switching to software decoding issue.
31. (V3.0.15.49) Fixed the live view display connection issue after changing encoder and resolution to MPEG/3840x2160 via ONVIF.
32. (V3.0.15.46) Fixed the incorrect event actions items.
33. (V3.0.15.46) Fixed the login page issue.
34. (V3.0.15.44) Fixed the permission issue for Export Video function.
35. (V3.0.15.44) Fixed system unstable issue when JPEG image from third-party camera included extended data.
36. (V3.0.15.38) Updated reconnection behavior to get Motion detection

- settings automatically after camera upgrading firmware and rebooting.
- 37. (V3.0.15.31) Display one hour off from NVR's server time while selecting "Server Time" from Time Zone list on Playback page.
 - 38. (V3.0.15.31) AD Domain is sometimes empty while adding new domain user.
 - 39. (V3.0.15.31) The DO response time will delay with Q950 camera.
 - 40. (V3.0.15.31) The UI display is abnormal after taking snapshot if the file path is too long.
 - 41. (V3.0.15.31) The "PTZ" and "Preset Tour" pages will be hidden when adding PTZ camera by manually.
 - 42. (V3.0.15.28) The sending mail notification could stop when the event is triggered frequently around more than 6 times per second.
 - 43. (V3.0.15.28) The NVR Administrator Tool could not work normally sometimes after switching different modes between "NVR" and "N+1".
 - 44. (V3.0.15.28) Failed to add Domain User/Group after changing domain name.
 - 45. (V3.0.15.26) The Redundancy Service keeps restarting after setting NVR mode on NVR Administrator Tool.
 - 46. (V3.0.15.26) The system log shows incorrect wording "Backup service Stop" when "Schedule Service Stop" happens.
 - 47. (V3.0.15.26) After the NVR server PC adding the microphone device, Audio Out function of the camera did not recover automatically in NVR Live View unless you drag the camera into Live View page again.
 - 48. (V3.0.15.24) Motion Sensitivity setting for the camera with firmware V8.04 will be reset after closing and reopening the NVR Workstation.
 - 49. (V3.0.15.24) The ROI number for Car detection, and Tampering event of A44 camera via ONVIF cannot be displayed on event panel.
 - 50. (V3.0.15.24) System unstable issue for hardware acceleration decoding
 - 51. (V3.0.15.19) Failed to connect some camera models via ONVIF if the camera did not support Basic and Digest access authentication even WSS credential provided.
 - 52. (V3.0.15.19) Connection instability issue for Axis Camera via ONVIF connection.
 - 53. (V3.0.15.08) The exported AVI file has noise if camera model is N81820.
 - 54. (V3.0.14.32) Remove "Absolute PTZ" option for the Zoom or PTZ camera models which did not support "PIXELS_TO_PTZ" and "PIXELS_TO_POSITION" URL commands yet. The impact models included B26, B412, B419, B612, B89, B912, B913, B915, B922 and

B928.

- 55.(V3.0.14.32) Failed to execute PTZ control via joystick after switching previous and next channel with joystick.
- 56.(V3.0.14.30) Failed to login with user account in domain user group.
- 57.(V3.0.14.30) The number of invalid or failed logon in Login page always show threshold value and do not count automatically with failed logon attempts.
- 58.(V3.0.14.28) Increase the HTTP request timeout from 120 seconds to 300 seconds for Active Directory connection when getting domain user groups and user list.
- 59.(V3.0.13.164) Show connection failed after “Get Device Settings” for TCM/TCD models
- 60.(V3.0.13.163) Failed to connect some camera models via ONVIF if the camera is using MJPEG and 3MP above resolution.
- 61.(V3.0.13.158) Show incorrect frame rate value if the return value with decimal point from ONVIF device.
- 62.(V3.0.13.158) It is unable to show domain user list in added dialog when number of users is over 20,000.
- 63.(V3.0.13.158) Fixed the ONVIF connection with 2N® IP Force device.
- 64.(V3.0.13.150) Fixed security issue to prevent system unstable in receiving malformed HTTP header.
- 65.(V3.0.13.150) Fixed the inconsistent status message after exporting RAW file.
- 66.(V3.0.13.150) A61 shutter speed option mismatch
- 67.(V3.0.13.147) Fixed memory leak issue with ONVIF camera.
- 68.(V3.0.13.147) No pop-up **IP Port Checker** program and SQL configuration during NVR installation from v3.0.13.142 to v3.0.13.146.
- 69.(V3.0.13.144) Failed to save the mounting type setting.
- 70.(V3.0.13.144) ONVIF compatible issue with new myONVIF.dll
- 71.(V3.0.13.144) The configuration tab of ONVIF camera will be hidden when Visual Tracking is enabled.
- 72.(V3.0.13.132) The Smart Search function could be not working when importing ROI from another camera with different resolution.
- 73.(V3.0.13.132) The resolution “2048 x 1536” option is missing on E914.
- 74.(V3.0.13.127) The NVR login failed if the user password contains special characters (e.g., "ô").
- 75.(V3.0.13.127) The Zoom In and Zoom Out buttons are disabled for PTZ camera via ONVIF

- 76.(V3.0.13.105) The System Log may freeze on searching or not responding sometimes.
- 77.(V3.0.13.105) PTZ start / stop URL command using non- ACTi protocol cannot work via NVR.
- 78.(V3.0.13.105) The “Tracking” and “Start Scan” buttons should be hidden when PTZ method is set to Serial Hex.
- 79.(V3.0.13.105) NVR may freeze in Live page after leaving from password protection page.
- 80.(V3.0.13.105) Show script error sometimes after pressing “Advanced” button in PTZ setting page.
- 81.(V3.0.13.105) Show script error sometimes after adding ONVIF PTZ camera.
- 82.(V3.0.13.105) Fixed the Zoom In and Zoom Out buttons in PTZ panel for ONVIF camera to be disabled.
- 83.(V3.0.13.105) When adding the ONVIF camera and PTZ settings are not configured yet, the PTZ function may not work.
- 84.(V3.0.13.105) The hotkey functions should be ignored when NVR is switching page among Live, Playback or Setup.
- 85.(V3.0.13.101) The quantity of Q950 shall be two digital inputs and one digital output.
- 86.(V3.0.13.101) Fixed the ONVIF event integration about subscribe method and renew request.
- 87.(V3.0.13.100) Pan/Tilt/Zoom speed settings update for ONVIF PTZ Continuous mode.
- 88.(V3.0.13.101) Show script error sometimes after restoring the configurations with NVR Workstation.
- 89.(V3.0.13.92) Fixed the recording gaps during playback when using Speed Up recording.
- 90.(V3.0.13.89) When the password of camera contains special characters, NVR could be unable to get Video or Motion settings.
- 91.(V3.0.13.89) NVR and SQL server installation failed because the installation path is too long. The temporary folder for installation will be created from current location to C:\ drive.
- 92.(V3.0.13.64) The recorded video may drop frames or have gaps in playback when NVR received the incorrect stream format.
- 93.(V3.0.13.47) Show “Connection failed” after upgrading NVR server from v3.0.12 to 3.0.13.45
- 94.(V3.0.12.42) The exported AVI file may have incorrect frame rate for A41,

A42, A81, A82 and C11W models.

- 95. (V3.0.12.42) The stability problem using D-Link models via ONVIF
- 96. (V3.0.12.40) The processing of Calibration for Overview, Zoom and Tracking (OZT) may not work normally.
- 97. (V3.0.12.39) The video setting of ONVIF camera cannot be changed sometimes.
- 98. (V3.0.12.38) Show Script error when attempting to copy some event responses to other camera
- 99. (V3.0.12.34) Live view may display black screen after digital zoom-in
- 100. (V3.0.10.30) Solved the stop recording unusually
- 101. (V3.0.10.30) Some specific third-party camera may cause higher CPU loading.
- 102. (V3.0.10.26) Go to preset point is not working sometimes via ONVIF
- 103. (V3.0.10.26) The exported avi file did not add Video information in file properties if the file size is more than 2GB.
- 104. (V3.0.10.26) Search ONVIF device will always show Authentication Failed.
- 105. (V3.0.10.26) Show recording icon when “Non-event Frame Rate” setting is zero and no event occurs.
- 106. (V3.0.10.26) Event handler may be ineffective sometimes.
- 107. (V3.0.10.26) Show abnormal video in Live view unexpectedly and may mantle other available functions
- 108. (V3.0.10.26) NVR may stop record the device after deleting specific schedule setting on this device.
- 109. (V3.0.10.17) Export video processing is incomplete sometimes.
- 110. (V3.0.10.17) Script error when the domain user is logging in to NVR server and the user is added to multiple domain groups.
- 111. (V3.0.10.17) Smart search result may be inconsistent with same search conditions.
- 112. (V3.0.10.17) The recording does not include audio by manual record sometimes.

Removed

- 1. (V3.0.14.28) Removed POSNET for POS integration
- 2. (V3.0.14.28) Removed SunPark for Car Park integration



Compliant third-party integration devices

Type	Brand	Product
Point-of-sale (POS)	pcAmerica	pcAmerica
	NCR	Aloha Restaurant
IP Door Control Network I/O	Eterna	HID Armous
	Advantech	ADAM-6060
		ADAM-6066

Supported languages

Arabic, Czech, Dutch, English, French, German, Hungarian, Indonesian, Italian, Japanese, Polish, Portuguese, Romanian, Russian, Spanish, Simplified Chinese, Thai 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	2.0.13 or later

Supported Client Application

Application Name	App. Version
ACTi Mobile Client for iOS	1.02 or later
ACTi Mobile Client for Android	1.0.16 or later

Remark

1. Minimum Resolution is 1024x768.

2. You may need to open HTTP port 80 and ActiveMediaServer.exe in firewall. Alternatively, you can remove Anti-virus software and add exception in windows firewall.
3. Please check Microsoft website for Windows updated to protect your system or standalone NVR against WannaCry or other virus attacks.
4. Export Video function will need enough free space. The free space size will be depended on the image compression, frame rate, channel numbers, export duration time, and raw or avi video type. (If the free space is not enough, the Export result will still show Success.)
5. The account-naming rule is only English letters, numbers and specific symbols are allowed except some symbols “ / \ [] : ; | = , + * ? < > ”
6. When you configure the Disk Drive for recording, please make sure the “Free Space” is larger than “Reserve Space” in Setup page ->Storage tab.
7. Not support multicast mode.
8. Not support OSD Menu operation for speed dome camera.
9. SED and CAM series devices may not show correct Model Name.
10. For individual recording, if the total size is over 2GB, or the video encoder type, frame rate, resolution of this channel's stream once altered during the selected Time Duration, this export video file will be divided.
11. Mobile Client cannot login NVR while using digest authentication.
12. Unable to login NVR with domain user while using digest authentication.
13. In H.265 compression, live view may flash sometimes at lower resolution (e.g., 320 x 240).
14. The Video Push function can be supported for ACTi camera with firmware version v6.11 and newer versions.
15. ANS (ACTi Notification Services) is ACTi's implementation of Amazon SNS through the usage of ACTi's server domain and ACTi's member center accounts. Please contact us for more information regarding Notification Services.
16. The pre-installed NVR 3 software will be upgraded from NVR Enterprise to NVR 3 Corporate on these standalone NVR models, including NVR INR-100, INR-340, GNR-310, GNR-320, INR-410, INR-430, INR-440,

INR-450, INR-460, MNR-310, MNR-320P, MNR-330P and GNR-3000 (shipment after January 2017)

17. ACTi offers NVR 3 software with three editions, including NVR 3 Standard, NVR 3 Enterprise and NVR 3 Corporate. The different edition cannot be upgraded directly. Please check the NVR edition before starting the upgrade.
18. Please perform Fisheye Image Calibration function through OZT Manual Calibration tool. NVR will not display Calibration page from camera firmware version v8.03.
19. NVR will show MD1 event trigger if tampering of E924, E924M, E44A, E77, B51 and B53 is detected.
20. NVR will show DI 1 event trigger if touch button of Q950/Q951 is detected.
21. If audio out function is not working, please check the antivirus software running on the server, it may block the function.
22. The N-to-N Redundancy feature may require additional license LNVR3003 when there are not enough licenses installed to add the quantity of backup channels.
23. The Redundancy feature can work on NVR Corporate and Enterprise editions at the same time. The latest software version is recommended.
24. If camera firmware is v7.05 or earlier version, NVR may keep recording continuously without stop when Tampering event recording is triggered. Please upgrade camera firmware to v7.06 or newer version to solve the issue.
25. Hardware acceleration function must perform on the graphics card which supported hardware acceleration. Please use the graphics card GeForce GTX 1050Ti as a minimum spec.
26. "Absolute PTZ" option on NVR will be not available on the PTZ/Speed Dome camera models with S1.01 or S1.02 firmware versions, the impact models included B911, B912, B913, B915, B922, B923, B928 and B943. The function will be supported on these models with S1.03 firmware version and NVR newer version.
27. Gunshot Detection is supported through third party integration. Please contact us for more information.
28. For new camera models -A310, A311, A71, A74, A416, A418, A811 and A818, NVR is integrated the functions, including Video, Audio, Motion, PTZ, storage and dual stream mode. IVS events are not supported yet.
29. Full-featured web client is available for Microsoft Internet Explorer and

Microsoft Edge browser (compatibility mode). Lite Web Client is the simplified edition of the browser-based client application with less features, such as video streaming, Live view up to 16 channels, 1 channel embedded instant playback, PTZ control, Snapshot and Audio input. (H.254 is not supported on Firefox)

30. After upgrading the server to 3.0.16.88 and above, all existing LINE Topic Token data will be deleted. Users must rebind a new Channel Token and reconfigure the event handler for LINE notifications.

NVR3 Installation

ACTi NVR 3 Corporate is a typical web-based server/client system. There are two types of **Clients in NVR 3.0 system**: **Web Client** and **Workstation Client**. A user, connecting from whether web browser or workstation, will enjoy the same user interface and NVR functions.

- **Web Client**: the web version of interface to access NVR server without need of installing any client program to become a client. After the NVR3 server installation is complete, user can connect to <http://localhost:port> through Internet Explorer for full features or cross browsers with simplified interface.

- **Workstation Client**: the client application making accessing NVR server free from the use of browser. The workstation program that provide interface between users and the NVR server. It may be installed on the same PC as the NVR server, or they may be installed separately and connect to NVR3 Server via network. Please make sure the version of NVR server and workstation is the same.

The performance of NVR is largely determined by the hardware PC capability.

Condition	Installation
New Installation NVR v3.0.10.17 and newer	Condition1

Please refer to “**Getting Started**” section in **NVR3 System Administrator's Manual** for all details about System Requirement, necessary prerequisites before installation, and installation procedure. If you want to substitute for another computer or re-install the NVR server, please refer to “**Back Up System Data**” section for getting more information.

ACTi offers NVR 3 software with three editions, including NVR 3 Standard, NVR 3 Enterprise and NVR 3 Corporate. The different edition cannot be upgraded directly. **Please check the NVR edition before starting the upgrade.**

- **Condition 1: (New installation/NVR v3.0.10.17 and newer Installed)**
 1. Before starting to install NVR 3 server, be sure to check if the PC specifications is acceptable for NVR.

- a. Please prepare **64-bit operating system** and fully patch with latest service packs.
- b. Please reserve storage capacity of 10GB or above on the system drive for NVR 3 software.
(It is advised that you use a separate disk for video recordings, and reserve free space 40GB on system drive and also keep the total capacity of system drive is more than 100GB.)
- c. Check that the .NET Framework has been installed.
 - i. Open "Programs and Features" from the Windows Control Panel
 - ii. Check that "**Microsoft .NET Framework 4.0" or above version** has been installed on the computer correctly.
 - iii. If .NET Framework is older version or not present, please download and install the .NET Framework 4.0 or above version.
For example, Microsoft .NET Framework 4.5
2. If there is pop-up Security Warning message after using Windows compression tool to extract the NVR zipped file, please try to use other compression tool or right-click on the NVR zipped file -> open "Properties" -> click the "Unblock" button -> decompress the NVR zipped file again.
3. Go to "ACTi_NVR_Server" folder and then execute "**setup.exe**" installation application.
4. Follow the instructions of Install Shield Wizard to proceed and complete the installation.

If IIS Web Server has been installed on the computer and you are asked to restart the computer during installation process, please choose "Yes, I want to restart my computer now" to restart, and after the computer reboots, please continue to complete the NVR installation.

The **IP Port Checker** program will pop up to confirm the NVR HTTP port number with you. The installation program will use **80** as default. You may enter another available port number in "Listen Port" field and click "Apply".

5. For NVR3 workstation, please go to "ACTi_NVR_Workstation" folder,



and then execute “**setup.exe**” and follow the install shield to complete the installation.

Download and Documentation

NVR 3 Corporate v3.0.16.88 software (server and workstation), the Release Notes, the System Administrator’s and User’s manuals are all available for download.

You may check “Software NVR” product in “Video Management System” section on ACTi website for updates or release information about this software and documents.

<http://www.acti.com/products/software-nvr>

You may also visit ACTi Download Center for updates and documents

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

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>