

Title:	Firmware Release Notes	Version:	v3.4.3	Date:	10/26/16
Product:	DS-76xxNI-E1(E2)P Series NVR	Build:		Page:	1 of 8
Action Required:	None, Information Only				

- NVR Models Affected**

DS-7604NI-E1/4P	DS-7608NI-E2/8P	DS-7616NI-E2/16P
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- Compatible IP Camera Information**

IP Camera Model	IP Camera Firmware
2xx2 Series	v5.3.0_151016
40xx, 41xx, 42xx, 43xx, 6412FWD Series	v5.3.4_150812
1x02, 2xx0, 2x14 Series	v5.3.0_151016
4026FWD, 6026FHWD, iDS-6xxx Series	v5.3.4_150812
4xx5 Series	v5.3.4_150812
2x22FWD, 2x42FWD Series	v5.3.6_151105
IPD DF Series	v5.3.10_150917
IPD DF Series	v5.3.2_150519
IPD DE Series	v5.3.9_150910
DS-2CD2942F-IS (Fisheye)	v5.3.3_151016
DS-2CD6412FWD-C2	v5.1.7_140904
DS-2CD63xxF (Fisheye)	v5.0.9_141009

- Firmware v3.4.3 160822 Changes**

Added	Pattern security feature
	E-mail supports TLS 1.0 feature
	VCA triggers PTZ preset feature
	Fisheye heat map feature
Changed	Upgraded SSL encryption to 2048-bit
	Changed the picture of boot up screen from “net DVR” to “NVR”
Removed	Removed the display about estimate recording time with current storage
Fixed Bug	Fixed the issue that displayed black image when zooming in on image in playback interface
	Fixed the issue that Video Loss sound/e-mails couldn't be turned off when camera was offline (only could be configured in local NVR GUI)
	Fixed the issue that the NVR might show an added camera's IP address in the camera management interface if the camera has two IP addresses
	Fixed TOE related issue: NVR might restart abnormally if remote Web client connects to NVR frequently
Remaining Bugs To Be Fixed	Fixed the issue that the device notified the surveillance center beyond the arming schedule
	The NVR fails to get the PTZ information from the IPD
	There is no remote login log when login to the NVR/DVR from the Web browser

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- Firmware v3.4.21 160630 Changes**

Added	Added e-mail support TLS 1.0 feature
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- Firmware v3.4.2 160531 Changes**

EZVIZ Character Modified	Changed "EZVIZ Cloud P2P" to "Hik Cloud P2P," changed "dev.ezviz7.com" to "dev.hik-connect.com"
Changed	Removed the update button from the Web interface (System > System settings interface)
	Changed the boot up screen picture from "Copying" to "Copyright"
Bug Fixed	Fixed the bug that can't detect Mac Web plugin
	Fixed the Web component for Windows security issue

- Firmware v3.4.1 160411 Changes**

IP Channel Password Management	Supports IP channel's password synchronization that NVR will synchronize admin's password to HIKVISION IP cameras connecting with the NVR when the admin's password is modified by user (except EZVIZ cameras)
Support H265 Decoding Format	Supports H.265 decoding format, including stream receive, storage, remote viewing, and remote playback, but doesn't support local viewing, digital zoom, local playback, PTZ live view.
Password Reset Optimization	Increased the device code length to guarantee the password reset security
	Supports exporting the xml file by scanning the QR code on the SADP tool
IVMS-4500 Smart Notification	Supports uploading smart event notification to IVMS-4500
Ezviz	Supports PTZ control
	Added offline log
Reliable Transmission	Added SDK HRUDP protocol for remote view to support reliable transmission based on UDP
	Supports bitrate and bandwidth self-adaption for the network environment with high bandwidth fluctuates to guarantee the fluency of live view (this function may modify the IPC bitrate)
Optimize ONVIF Protocol Compatibility of Function	NVR can get stream from IPC with ONVIF even if NVR fails to get the compression parameters of IPC, NVR uses the default compression parameters instead
	Increase the ONVIF protocol compatibility
	NVR can get the language of IPC accessed through ONVIF (only HIKVISION products support this function)
	Optimized preset point function to guarantee the preset point order is correct
	Supports windshield wiper and light control with ONVIF

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• **Firmware v3.4.1 160411 Changes** (continued)

NVR SDK Module	Added transparent transmission SDK interface that NVR can transmit configuration parameters to IPC transparently
SDK Passenger Flows and Heat Map Data Real-Time Uploading	After 5200 software accesses NVR and arms, NVR will upload real-time passenger flows and heat map data to 5200 to display
SDK Overtime Is Configurable	SDK overtime is configurable
ISAPI Alarm Notification	NVR doesn't support "/ISAPI/event/notification/alertStream" function in older version when third-party device is integrated. New version enables "/ISAPI/event/notification/alertStream," and users could receive event notification (effective only for third-party IPCs)
Security	Exported configuration files encryption
	User name and password encrypted before saving in configuration files
	Encrypt SDK's sensitive information channel
New Serial Port Command	Added a new serial port command to show the resolution the device supports (showDevCapa)
Debug Commands of System Level	Developed a new serial port command debugging system
	New format of command: dt+ (space) command
	Former command such as getlp can be input in 2 ways: dt getlp or getlp
Remote Debugging Service	Added Remote Debugging Service (Debug Tool)
IP Channel Management	When IPC is plugged to PoE interface, the state shown in NVR is detecting
	When the IPC language is unmatched with the NVR, the IP channel state will be language unmatched instead of a hint
IPC Access	Optimized the event arming mechanism to fix the issue that NVR doesn't receive any event alarm if one of events configuration fails
Motion Detection	Limits the motion detection sensitivity configuration, the sensitivity can't be adjusted to 0. Added a new option: Enable dynamic analysis.
GUI	Optimized caps-lock on soft keyboard
User Lock	Optimized user lock
	The login failure attempts number could be restored if the time between two failure attempts was longer than the failure attempt number restoring time
	User's login attempts did not affect the lock time left
Live View Strategy	In multi-screen mode, NVR would automatically switch to sub-stream for live view if the channel's resolution was higher than 2 MP
Change	Renamed "People Counting" to "Counting"
Change	Supports multi-language (English, French, Spanish)

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- **Firmware v3.4.1 160411 Changes** (continued)

Change	EZVIZ device would not be discovered
Change	VCA pictures attached in e-mails was captured by NVR locally rather than uploaded by IPC in the old firmware version
Bug Fix	Video expiration time couldn't be configured in v3.3.4
Bug Fix	If the NVR IP address was modified when an event occurred, NVR couldn't receive event messages from the IPC afterwards

RESTRICTION: VCA photo cannot exceed 1920 x 1080. Otherwise in VCA Search/Face Search Interface, the photo will not be displayed.

- **Firmware v3.3.6_151229, Encode Version: v5.0, build, 150625 Changes**

- Encrypt SDK's sensitive information channel
- Bug Fix: Failed event recording

- **Firmware v3.3.5_151127, Encode Version: v5.0, build 150625, Changes**

- VGA default resolution set to 720p
- Supports R6 platform IPC
- IPC motorized lens operation is supported
- Using line crossing as the VCA e-mail name instead of traverse plane
- Recoding "Parameters Cannot Be Configured" issue have been fixed

- **Firmware v3.3.4_150811, Encode Version: v5.0, build 150625, Changes**

- Fixed bug that IE DDNS setting was not synchronized to local GUI
- Fixed reboot bug when alarm input was on and triggered "notifying surveillance center"
- Fixed bug that Web server can be triggered to reveal the absolute path for the Web root directory and/or other software installed on the host
- Fixed bug that prevented auto detection from functioning after selecting a DDNS region. For example, if "America"—"America" was selected in the DDNS tab and saved, if "auto detection" was then selected and saved, the setting would remain "America."

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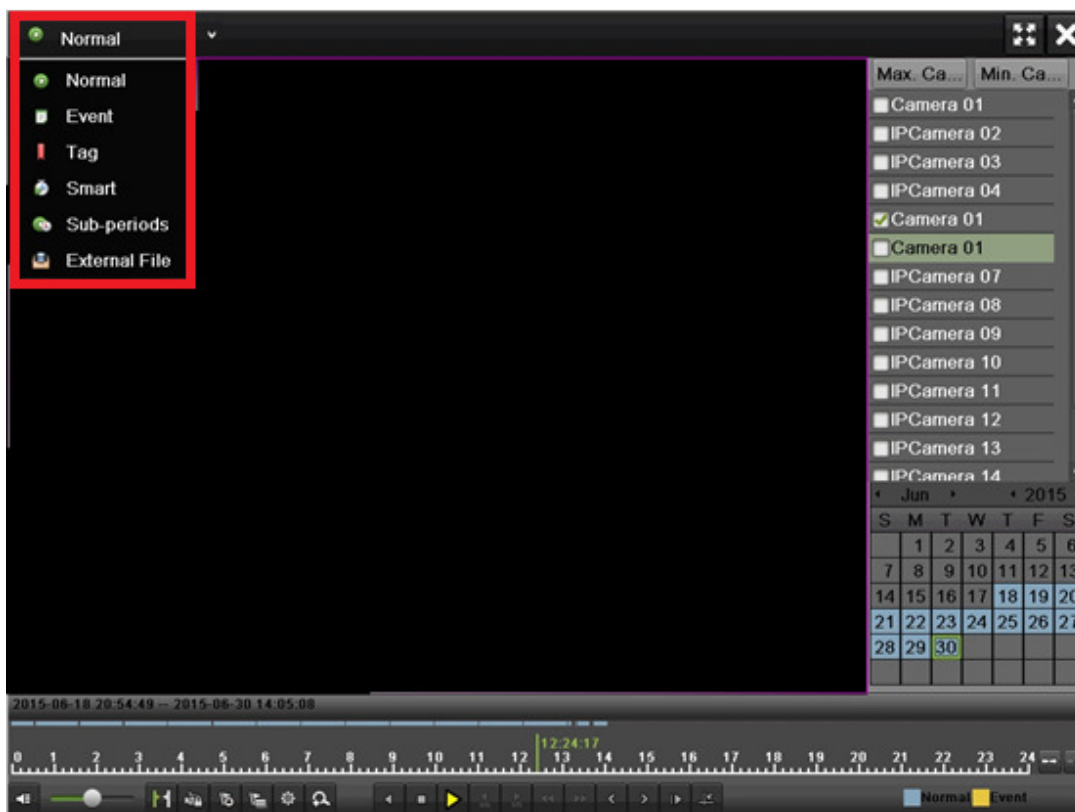
- Firmware v3.3.3_150724 Changes**

Compatible IP Camera Information

IP Camera Model	IP Camera Firmware
DS-2CD2xxx Series	v5.3.0 build 150513
IPC 4xx2, 4xx4, 6412FWD	v5.3.0 build 150513
IPC 4x26FWD, 6026FHWD	v5.3.0 build 150513
IPC 4xx5F ¹	v5.3.0 build 150513
Fisheye: DS-2CD63xx Series	v5.0.9 build 141009
Fisheye: DS-2CD2942F-IS	v5.2.1 build 141120
Pro: DS-2CD7xx/72xx/8xx/82	v5.2.0 build 140721

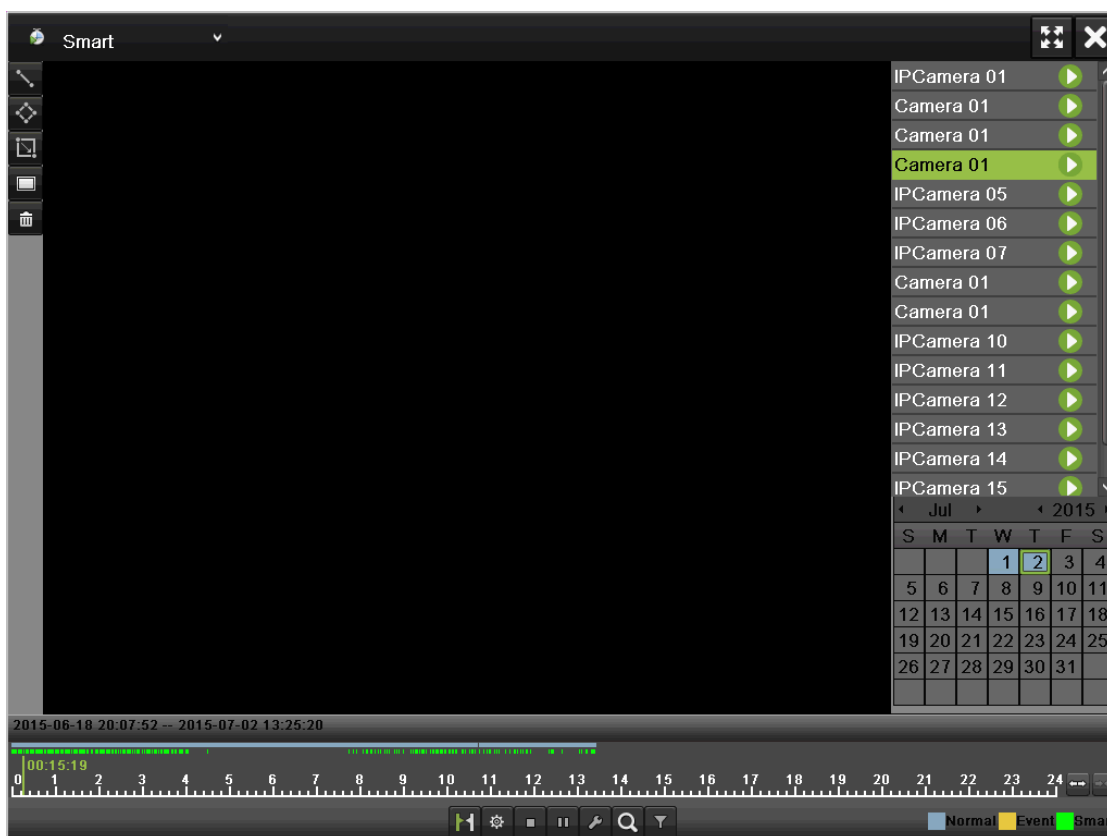
¹ **NOTE:** Not supported by DS-2CD4085F-A, DS-2CD4185F-IZ, DS-2CD4A85F-IZH, or DS-2CD4585F-IZH.

- Smart Playback screen removed from Normal Playback screen; Smart Playback and Normal Playback are now on separate screens.

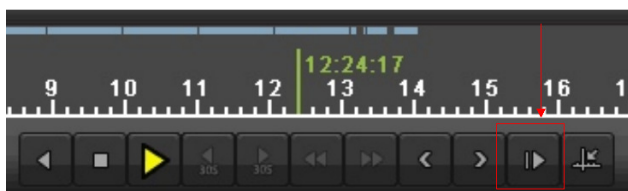


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- Smart Search available only while in Smart Playback mode; Smart Search is not supported during Normal Playback.



- Ability to use the single-frame playback button in the full-screen playback menu to display one single video frame at a time. Single-frame playback is available only during playback pause.



- The “Export” and “Export All” buttons in the tag menu can be used to back up tag-corresponding recorded files.

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File Management

Video Clips Locked File **Tag**

<input type="checkbox"/> Camera No.	Tag Name	Time	Edit	Delete
<input checked="" type="checkbox"/> D4	TAG	2015-07-02 00:00:05		
<input type="checkbox"/> D4	TAG	2015-07-02 04:43:27		
<input type="checkbox"/> D4	TAG	2015-07-02 05:46:29		
<input type="checkbox"/> D4	TAG	2015-07-02 08:01:28		
<input type="checkbox"/> D4	TAG	2015-07-02 09:49:28		
<input type="checkbox"/> D4	TAG	2015-07-02 11:33:01		

Total: 6 P: 1/1

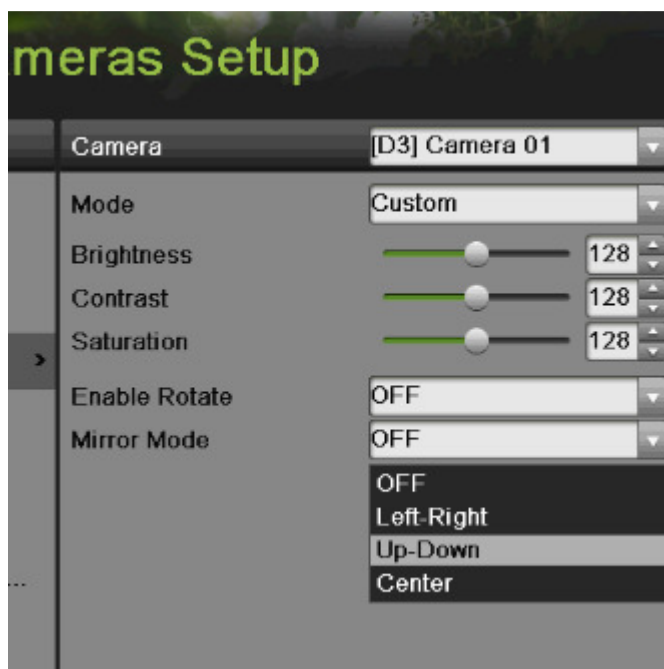
Export All **Export** Cancel

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

11:33:05

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- Rotate and Mirror modes are adjustable in Camera Setup -> Image.



- Update failure when upgrading from 3.0.5/3.0.6 fixed
- H.264+
- Playback by sub-periods
- VCA alarm for up to 15 VCA detections
- VCA search function for behavior search, face search (future feature), people counting, and heat map (future feature)
- Up to nine formats when exporting files to storage device
- Prompt appears when wrong user name or password is input in login interface
- Continent/country is selectable for HiDDNS settings
- PTZ control panels and operations optimized
- “ezviz Cloud” changed to “EZVIZ Cloud P2P”