



Netra V3.3.1 Release Notes

2015-06-03

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General Information

Firmware Version	V3.3.1 build150522
Web Component	V4.0.1 build150328
Related iVMS-4200	v2.00.14.08 build20150331
Related SDK	V5.0.3.20 build20150318
ONVIF Compliance	ONVIF Server V2.2, ONVIF Client Profile S
Language	Multi-lingual

Netra DVR/HDVR/NVR Model

Series	Model	Type
9200HWI-ST	DS-9204/08/16HWI-ST	Network DVR
9100HFI-ST	DS-9104/08/16HFI-ST	Network DVR
9100HWI-ST	DS-9104/08/16HWI-ST	Network DVR
9100HFI-RT	DS-9104/08/16HFI-RT	Network DVR
9100HFI-XT	DS-9116HFI-XT	Network DVR
9000HFI-ST	DS-9004/08/16HFI-ST	Network HDVR
9000HWI-ST	DS-9004/08/16HWI-ST	Network HDVR
9000HFI-RT	DS-9004/08/16HFI-RT	Network HDVR
9000HFI-XT	DS-9016HFI-XT	Network HDVR
8100HFI-ST	DS-8104/08/16HFI-ST	Network DVR
8100HWI-ST	DS-8104/08/16HWI-ST	Network DVR
8000HFI-ST	DS-8004/08/16HFI-ST	Network HDVR
8000HWI-ST	DS-8004/08/16HWI-ST	Network HDVR
7200HWI-SV	DS-7208/16HWI-SV	Network DVR
9600NI-ST	DS-9608NI-ST DS-9616NI-ST DS-9632NI-ST DS-9664NI-ST	Network Video Recorder
9600NI-RT	DS-9608NI-RT DS-9616NI-RT DS-9632NI-RT	Network Video Recorder

	DS-9664NI-RT	
9600NI-XT	DS-9616NI-XT DS-9632NI-XT DS-9664NI-XT	Network Video Recorder
8600NI-ST	DS-8608NI-ST DS-8616NI-ST DS-8632NI-ST DS-8664NI-ST	Network Video Recorder
7700NI-ST	DS-7708NI-ST DS-7716NI-ST DS-7732NI-ST DS-7764NI-ST	Network Video Recorder
7700NI-SP	DS-7708NI-SP DS-7716NI-SP DS-7732NI-SP	Network Video Recorder
7600NI-ST	DS-7608NI-ST DS-7616NI-ST DS-7632NI-ST	Network Video Recorder
7600NI-SP	DS-7608NI-SP DS-7616NI-SP DS-7632NI-SP	Network Video Recorder

V3.3.1 Firmware Updates

1. Introduce device activation mechanism in the V3.3.1 firmware: default admin password is removed; user must activate the device by creating a password for the admin account at the first time of utilization. Before activation, device cannot be used for live view streaming, playback, configuration, etc.
 - Newly manufactured device with the new firmware must be activated before use.
 - If a device is upgraded from old firmware version to the new firmware version, the device will be activated automatically with the same old password.
 - If an activated device is reset to factory setting, it becomes inactive and must be activated again before use.

Activation

User Name: admin

Create New P...: ***** Strong

Confirm New P...: *****

✓ Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.

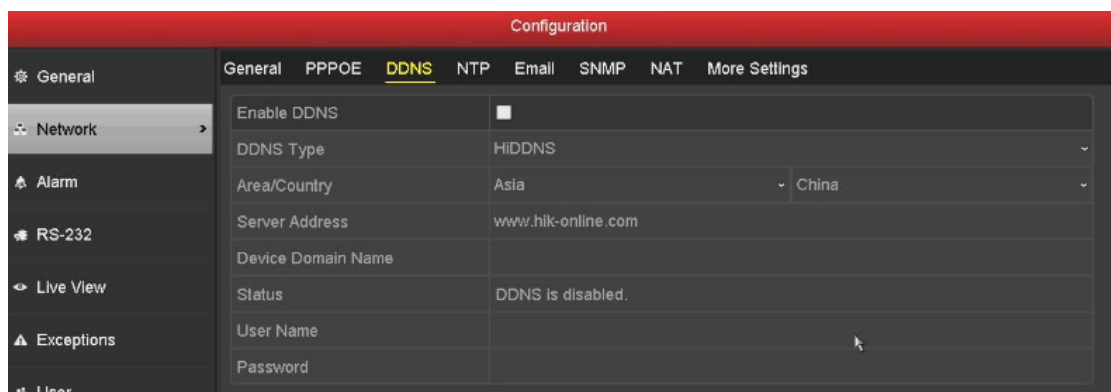
Power icon OK Cancel

2. Add the password level indication while creating a new password.



A warning dialog box titled "Warning" with a red header. It contains three input fields: "Old Password" with masked text "*****", "New Password" with masked text "*****" and a green "Strong" label to its right, and "Confirm" with masked text "*****". Below the fields is a green checkmark icon followed by the text: "Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained." At the bottom are "OK" and "Cancel" buttons.

3. Optimize Hikvision DDNS Configuration Page:
Continent/country of the DDNS registration server can be selected;
DDNS connection status is added.



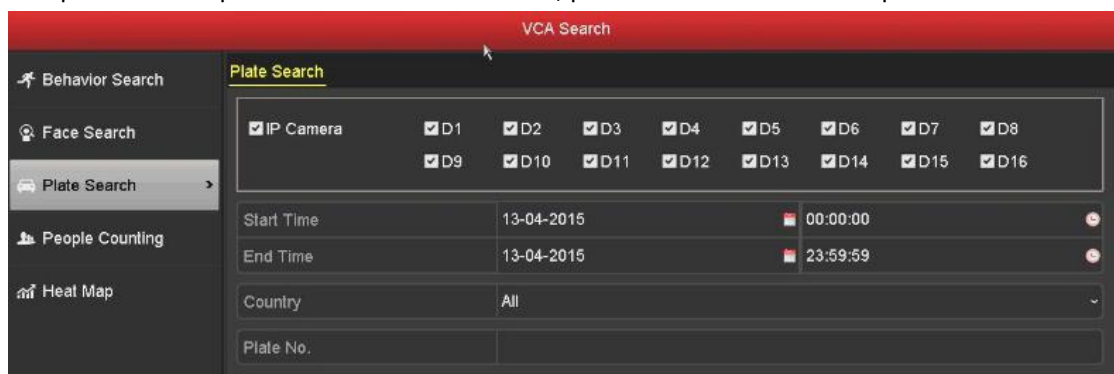
The "Configuration" page for DDNS settings. The left sidebar shows a tree view with "General", "Network", "Alarm", "RS-232", "Live View", "Exceptions", and "User". The "Network" section is expanded, showing sub-items like "General", "PPPOE", "DDNS", "NTP", "Email", "SNMP", "NAT", and "More Settings". The "DDNS" tab is selected. The main area contains a table with the following fields:

Configuration	
Enable DDNS	<input type="checkbox"/>
DDNS Type	HIDDNS
Area/Country	Asia China
Server Address	www.hik-online.com
Device Domain Name	
Status	DDNS is disabled.
User Name	
Password	

4. Add vehicle detection as a new VCA event type in NVR (NVR shall work with specific IP camera to support this function.)



5. Add plate search option in the VCA search menu, plate information can be exported as excel.



6. Device with V3.3.1 firmware cannot be downgraded via local menu, web browser, or client software.
7. Other Updates.

Tested-compatible IP Camera

Tested-compatible Hikvision IPC

Type	Model	Version	Max. Resolution	Sub-stream	Audio
SD Network Camera	DS-2CD7133F-E	V5.1.0 build 131202	640*480	√	×
	DS-2CD793NFWD-EI	V5.1.0 build 131202	704*576	√	√
	DS-2CD802NF	V2.0 build 090522	704*576	√	√
		V2.0 build 090715			
		V2.0 build 110301			
	DS-2CD833F-E	V5.1.0 build 131202	640*480	√	√
	DS-2CD893PF-E	V5.1.0 build 131202	704*576	√	√
HD Network Camera	DS-2CD2012-I	V5.1.6 build 140412	1280*960	√	×
	DS-2CD2132-I	V5.1.6 build 140412	2048*1536	√	×
	DS-2CD2410FD-I(W)	V5.1.7 build 140528	1280*720	√	√
	DS-2CD2612F-I	V5.1.6 build 140412	1280*960	√	×
	DS-2CD2612F-IS	V5.1.6 build 140412	1280*960	√	√
	DS-2CD2632F-I	V5.1.6 build 140412	2048*1536	√	×
	DS-2CD2632F-IS	V5.1.6 build 140412	2048*1536	√	√
	DS-2CD2710F-I	V5.1.7 build 140527	1280*960	√	×
	DS-2CD2720F-I	V5.1.7 build 140527	1920*1080	√	×
	DS-2CD4010F	V5.1.7 build 140528	1280*960	√	√
	DS-2CD4012F	V5.1.7 build 140527	1280*1024	√	√
	DS-2CD4026FWD	V5.1.7 build 140527	1920*1080	√	√
	DS-2CD4026FWD-SDI	V5.1.7 build 140527	1920*1080	√	√

Type	Model	Version	Max. Resolution	Sub-stream	Audio
	DS-2CD4032FWD	V5.1.7 build 140527	2048*1536	√	√
	DS-2CD4065F	V5.1.6 build 140528	3072*2048	√	√
	DS-2CD4124F-I(2.8-12mm)	V5.1.7 build 140527	1920*1080	√	√
	DS-2CD4132FWD-I(2.8-12mm)	V5.1.7 build 140527	2048*1532	√	√
	DS-2CD4212F-I(2.8-12mm)	V5.1.7 build 140527	1280*1024	√	×
	DS-2CD4212F-IS(2.8-12mm)	V5.1.7 build 140527	1280*1024	√	√
	DS-2CD4212FWD-I	V5.1.7 build 140527	1280*960	√	×
	DS-2CD4212FWD-IS	V5.1.7 build 140527	1280*960	√	√
	DS-2CD4224F-I	V5.1.7 build 140527	1920*1080	√	×
	DS-2CD4232FWD-I	V5.1.7 build 140527	2048*1536	√	×
	DS-2CD4232FWD-IS(2.8-12mm)	V5.1.7 build 140527	2048*1536	√	√
	DS-2CD4312F-I	V5.1.7 build 140527	1280*1024	√	×
	DS-2CD4312FWD-I	V5.1.7 build 140527	1280*960	√	×
	DS-2CD4324F-I	V5.1.7 build 140527	1920*1080	√	×
	DS-2CD4332FHWD-IS	V5.1.7 build 140527	2048*1536	√	√
	DS-2CD4332FHWD-I	V5.1.7 build 140527	2048*1536	√	×
	DS-2CD4332FWD-I	V5.1.7 build 140527	2048*1536	√	×
	DS-2CD6026FHWD	V5.1.7 build 140527	1920*1080	√	√
	DS-2CD6213F	V5.1.0 build 131202	1280*960	√	×
	DS-2CD6223F	V5.1.0 build 131202	1920*1080	√	×
	DS-2CD6233F	V5.1.0 build 131202	2048*1536	√	×

Type	Model	Version	Max. Resolution	Sub-stream	Audio
	DS-2CD7153-E	V5.1.0 build 131202	1600*1200	√	×
	DS-2CD7164-E	V5.1.0 build 131202	1280*720	√	×
	DS_2CD754F-EI	V5.1.0 build 131202	2048*1536	√	√
	DS-2CD754FWD-E	V5.1.0 build 131202	1920*1080	√	√
	DS-2CD754FWD-EIZ	V5.1.0 build 131202	2048*1536	√	√
	DS_2CD783F-EI	V5.1.0 build 131202	2560*1920	√	√
	DS-2CD8153F-E	V5.1.0 build 131202	1600*1200	√	√
	DS-2CD8464F-EI	V5.1.0 build 131202	1280*960	√	√
	DS-2CD852MF-E	V2.0 build 110614	1600*1200	√	√
		V2.0 build 110426			
		V2.0 build 100521			
	DS-2CD855F-E	V5.1.0 build 131202	1920*1080	√	√
	DS-2CD862MF-E	V2.0 build 110614	1280*960	√	√
		V2.0 build 110426			
		V2.0 build 100521			
	DS-2CD863PF/NF-E	V5.1.0 build 131202	1280*960	√	√
	DS-2CD864FWD-E	V5.1.0 build 131202	1280*720	√	√
	DS-2CD876MF/BF-E	V4.0.3 build120913	1600*1200	√	√
	DS-2CD877BF	V4.0.3 build120913	1920*1080	√	√
	DS-2CD886MF-E	V4.0.3 build 120913	2560*1920	√	√
	DS-2CD9111(B)	V3.7.1 build140417	1360*1024	√	×
	DS-2CD9120-H	V3.7.1 build140417	1600*1200	√	×
	DS-2CD9121	V3.7.1 build140417	1600*1200	√	×

Type	Model	Version	Max. Resolution	Sub-stream	Audio
	iDS-2CD9121	V3.7.1 build140417	1600*1200	√	×
	DS-2CD9121A	V3.7.1 build140417	1600*1200	√	×
	iDS-2CD9121A	V3.7.1 build140417	1600*1200	√	×
	DS-2CD9122	V3.7.1 build140417	1920*1080	√	×
	DS-2CD9122-H	V3.7.1 build140417	1920*1080	√	×
	DS-2CD9131	V3.7.1 build140417	2048*1536	√	×
	iDS-2CD9131	V3.7.1 build140417	2048*1536	√	×
	DS-2CD9131-K	V3.7.0 build140403	2048*1536	√	√
	DS-2CD9151A	V3.7.1 build140509	2448*2048	√	×
	iDS-2CD9151A	V3.7.1 build140509	2448*2048	√	×
	iDS-2CD9151A-E	V3.7.0 build140403	2448*2048	√	×
	DS-2CD9152	V3.7.1 build140417	2560*1920	√	×
	iDS-2CD9152	V3.7.1 build140417	2560*1920	√	×
	DS-2CD9152-H	V3.7.1 build140417	2592*2048	√	×
	iDS-2CD9152-H	V3.7.1 build140417	2592*2048	√	×
	DS-2CD9152-HK	V3.7.0 build140403	2592*2048	√	√
	DS-2CD9182-H	V3.7.0 build 140403	3296*2472	√	×
	iDS-2CD9282	V3.5.0 build130810	3296*2472	√	×
	DS-2CD966(B)	V3.1 build 120423	1360*1024	×	×
	DS-2CD966-V(B)	V3.1 build 120423	1360*1024	×	×
	DS-2CD976(C)	V3.1 build 120423	1600*1200	×	×
	DS-2CD976-V(C)	V3.1 build 120423	1600*1200	×	×
	DS-2CD977(C)	V3.1 build 120423	1920*1080	×	×

Type	Model	Version	Max. Resolution	Sub-stream	Audio
	DS-2CD986A(C)	V3.1 build 120423	2448*2048	×	×
	DS-2CD986C (B)	V2.3.6 build 120401	2560*1920	×	×
Network Speed Dome	DS-2DF1-402	V3.2.0 build 131223	704*576	√	√
	DS-2DF1-518	V3.2.0 build 131223	704*576	√	√
	DS-2DE5172-A	V5.1.8 build 140530	1280*960	√	√
	DS-2DF5274-A	V5.1.8 build 140616	1280*960	√	√
	DS-2DF5284-A	V5.1.8 build 140530	1920*1080	√	√
	DS-2DE7174-A/AE/D	V5.1.8 build 140530	1280*960	√	√
	DS-2DE7186-A/AE	V5.1.8 build 140530	1920*1080	√	√
	DS-2DF7274-A	V5.1.8 build 140616	1280*960	√	√
	DS-2DM7274-A	V5.1.8 build 140616	1280*960	√	√
	DS-2DF7284-A	V5.1.8 build 140530	1920*1080	√	√
	DS-2ZCN3006	V5.1.6 build 140409	1280*960	√	√
	DS-2ZCN3007	V5.1.6 build 140409	1920*1080	√	√
SD Encoder	DS-6501HCI	V1.0.1 build130607	352*288	√	√
	DS-6501HCI-SATA	V1.0.1 build130607	352*288	√	√
	DS-6501HFI	V1.0.1 build130607	704*576	√	√
	DS-6501HFI- SATA	V1.0.1 build130607	704*576	√	√
	DS-6502HCI	V1.0.1 build130607	352*288	√	√
	DS-6502HCI- SATA	V1.0.1 build130607	352*288	√	√
	DS-6502HFI	V1.0.1 build130607	704*576	√	√

Type	Model	Version	Max. Resolution	Sub-stream	Audio
	DS-6502HFI- SATA	V1.0.1 build130607	704*576	√	√
	DS-6504HCI	V1.0.1 build130607	352*288	√	√
	DS-6504HCI- SATA	V1.0.1 build130607	352*288	√	√
	DS-6504HFI	V1.0.1 build130607	704*576	√	√
	DS-6504HFI- SATA	V1.0.1 build130607	704*576	√	√
	DS-6508HCI	V1.0.1 build130607	352*288	√	√
	DS-6508HCI- SATA	V1.0.1 build130607	352*288	√	√
	DS-6508HFI	V1.0.1 build130607	704*576	√	√
	DS-6508HFI- SATA	V1.0.1 build130607	704*576	√	√
	DS-6516HCI	V1.0.1 build130607	352*288	√	√
	DS-6516HCI- SATA	V1.0.1 build130607	352*288	√	√
	DS-6516HFI	V1.0.1 build130607	704*576	√	√
	DS-6516HFI- SATA	V1.0.1 build130607	704*576	√	√
	DS-6601HCI	V1.2.1 build131202	352*288	√	√
	DS-6602HCI	V1.2.1 build131202	352*288	√	√
	DS-6604HCI	V1.2.1 build131202	352*288	√	√
	DS-6601HFI(-SATA)	V1.2.1 build131202	704*576	√	√
	DS-6602HFI(SATA)	V1.2.1 build131202	704*576	√	√
	DS-6604HFI(-SATA)	V1.2.1 build131202	704*576	√	√
	DS-6701HWI	V1.2.0 build140414	960*576	√	√
	DS-6701HWI-SATA	V1.2.0 build140414	960*576	√	√

Type	Model	Version	Max. Resolution	Sub-stream	Audio
	DS-6704HWI	V1.2.0 build140414	960*576	√	√
	DS-6704HWI-SATA	V1.2.0 build140414	960*576	√	√
	DS-6708HWI	V1.2.0 build140414	960*576	√	√
	DS-6708HWI-SATA	V1.2.0 build140414	960*576	√	√
	DS-6716HWI	V1.2.0 build140414	960*576	√	√
	DS-6716HWI-SATA	V1.2.0 build140414	960*576	√	√
HD Encoder	DS-6601HFHI	V1.0.4 build130115	1920*1080	√	√
	DS-6601HFHI/L	V1.0.4 build130115	1920*1080	√	√

Tested-compatible Third-party IPC

IP Camera Manufacturer or Protocol	Model	Version	Max. Resolution	Sub-stream	Audio
ACTi	ACM3401-09L-X-00227	A1D-220-V3.13.16-AC	1208*1024	×	×
	TCM4301-10D-X-00083	A1D-310-V4.12.09-AC	1208*1024	×	√
	TCM5311-11D-X-00023	A1D-310-V4.12.09-AC	1208*960	×	√
Arecont	AV1305 M	65175	1208*1024	√	×
	AV2815	65220	1920*1080	√	×
	AV3105M	65175	1920*1080	√	×
	AV8185DN	65172	1600*1200	×	×
Axis	M1114	5.09.1	1024*640	√	×
	M3011(ONVIF compatibility)	5.21	640*480 (704*576)	√ (×)	×
	M3014(ONVIF compatibility)	5.21.1	1280*800	√	×
	P1346	5.40.9.2	2048*1536	√	√
	P3301(ONVIF compatibility)	5.11.2	640*480 (768*576)	√	√ (×)
	P3304(ONVIF compatibility)	5.20	1280*800 (1440*900)	√	√ (×)

IP Camera Manufacturer or Protocol	Model	Version	Max. Resolution	Sub-stream	Audio
	P3343(ONVIF compatibility)	5.20.1	800*600	√	√ (×)
	P3344(ONVIF compatibility)	5.20.1	1280*800 (1440*900)	√	√ (×)
	P5532	5.15	720*576	√	×
	Q7404	5.02	720*576	√	√
Bosch	AutoDome Jr 800 HD (ONVIF compatibility)	39500450	1920*1080	×	√ (×)
	Dinion NBN-921-P (ONVIF compatibility)	10500453	1280*720	×	√ (×)
	NBC 265 P (ONVIF compatibility)	07500452	1280*720	×	√ (×)
Brickcom	CB-500Ap(Brickcom-50xA) (ONVIF compatibility)	v3.2.1.3	1920*1080	×	√ (×)
Canon	VB-H410(ONVIF compatibility)	Ver.+1.0.0	1920*1080 (1280*960)	×	√
	VB-S9000F	Ver. 1.0.0	1920*1080	×	×
	VB-S300D	Ver. 1.0.0	1920*1080	×	×
	VB-H6100D	Ver. 1.0.0	1920*1080	×	×
	VB-H7100F	Ver. 1.0.0	1920*1080	×	√
	VB-S8000	Ver. 1.0.0	1920*1080	×	×
Panasonic	SP306H (ONVIF compatibility)	Application:1.34 Image data:1.06	1280*960	√ (×)	√
	SF336H	Application:1.06 Image data: 1.06	1280*960	√	√
Pelco	D5118 (ONVIF compatibility)	1.8.2-20120327-2.9310-A1.7852	1280*960	√	×
	IX30DN-ACFZHB3 (ONVIF compatibility)	1.8.2-20120327-2.9080-A1.7852	2048*1536	√	×
	IXE20DN-AAXVUU2 (ONVIF compatibility)	1.8.2-20120327-2.9081-A1.7852	1920*1080	√	×
Sanyo	2300P(with lens)	2.03-02 (110318-00)	1920*1080	×	×
	2500P(with lens)	2.02-02 (110208-00)	1920*1080	×	√
	4600P	2.03-02 (110315-00)	1920*1080	×	√
SONY	SNC-CH220	1.50.00	1920*1080	×	×
	SNCDH220T (ONVIF only)	1.50.00	2048*1536	×	×
	SNC-EP580 (ONVIF compatibility)	1.53.00	1920*1080	√	√

IP Camera Manufacturer or Protocol	Model	Version	Max. Resolution	Sub-stream	Audio
	SNC-RH124 (ONVIF compatibility)	1.79.00	1280*720	√	√
SUMSUNG	SND-5080 (ONVIF compatibility)	3.10_130416	1280*1024	√	√
Vivotek	IP7133	0203a	640*480	×	×
	FD8134 (ONVIF compatibility)	0107a	1280*800	×	×
	IP8161 (ONVIF compatibility)	0104a	1600*1200	×	√ (×)
	IP8331 (ONVIF compatibility)	0102a	640*480	×	×
	IP8332 (ONVIF compatibility)	0105b	1280*800	×	×
Zavio	D5110 (ONVIF compatibility)	MG.1.6.03P8	1280*1024	√ (×)	×
	F3106 (ONVIF compatibility)	M2.1.6.03P8	1280*1024	√ (×)	√
	F3110 (ONVIF compatibility)	M2.1.6.01	1280*720	√ (×)	√
	F3206 (ONVIF compatibility)	MG.1.6.02c045	1920*1080	√ (×)	√
	F531E (ONVIF compatibility)	LM.1.6.18P10	640*480	√ (×)	√

Firmware Update History

V3.2.1 Updates

Firmware Version	V3.2.1 build150310
Web Component	V4.0.1 build150202
Related iVMS-4200	V2.00.14.03 build20150203
Related SDK	V5.0.3.15 build20150129
ONVIF Compliance	ONVIF Server V2.2, ONVIF Client Profile S
Language	Multi-lingual

1. Add the event recording as a new record type in the record schedule. Event recording can be triggered by any of the following event occurrences such as motion detection, alarm input, VCA event.
2. IP camera's rotate mode, and mirror mode can be configured on NVR's local menu. After camera's rotate mode is enabled, camera's corridor mode can be viewed in single screen live view window.
3. Add a QR code in DVR/NVR's local GUI: Menu->System maintenance->System Info, the QR code includes device information such as IP address, port number, username and password, it can be scanned on Hikvision mobile app iVMS-4500 for a quick device add.
4. Add the function of copy and paste for the edit box of local menu
5. Now up to 8 IPSAN can be added to the DVR/NVR as network storage, for the old firmware only 1 IPSAN can be added.
6. Add a prompt dialog box for changing the admin's password in the login page if the default login password is not changed
7. The user account will be locked after several incorrect login attempts on local menu, the login IP will be locked after several incorrect login attempts from remote.
8. Add the option of common menu in the right click menu of DVR/NVR, high frequently used sub menu will be displayed in the common menu option, common menu supports up to 5 sub menu options.
9. IP cameras' VCA detection rule now can be configured via NVR. After checking the "Save VCA picture" checkbox, NVR will be able to save the VCA capture uploaded by IPC in local HDD.
10. Add the VCA search menu to search for the results of behavior analysis, face detection, people counting and heat map (VCA data is uploaded from IP camera with related features).
11. Add more playback speed options for fast forward: 32x, 64x, 128x, 256x.
12. Playback a single camera by sub-periods: Playback the different time segment of record file of one camera in split-screens, up to 16 split screens are supported.
13. Optimize the smart playback function: Now you can skip the non-related video, set the playback speed (up to 16) of related video and non-related video.
14. Change the web interface style to flat design.
15. Optimize the way of select live view streaming profile on the web interface.
16. Add a sub menu on web interface for picture search and download. Add the HDD detection on the web interface: Configuration->Storage->Storage Management.
17. Remove the telnet enable option from web interface.
18. Add the flow control function to improve the remote live view performance under low bandwidth condition.
19. Other Updates.