DS-7608NXI-K2(D)

8-CH 1U K SERIES ACUSENSE 4K NVR

8-ch IP Inputs | Up to 12 MP Decoding | 2 SATA up to 16 TB each

TECHNICAL DATASHEET

English | Reference edition v1.0

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Branded reference copy - product model DS-7608NXI-K2(D)



Key Feature

- Up to 8-ch IP camera inputs
- H.265+/H.265/H.264+/H.264 video formats
- Up to 2-ch@12 MP or 4-ch@8 MP or 8-ch@4 MP or 16-ch@1080p decoding capacity
- Up to 80 Mbps incoming bandwidth
- Adopt Hikvision Acusense technology to minimize manual effort and security costs



Smart Function

- All channels support Motion Detection 2.0
- 2-ch video analysis for human and vehicle recognition to reduce false alarm
- 1-ch facial recognition for video stream, or 4-ch facial recognition for face picture
- Smart search for the selected area in the video, and smart playback to improve the playback efficiency

Professional and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Adopt stream over TLS encryption technology which provides more secure stream transmission service

HD Video Output

- Provide simultaneous HDMI and VGA outputs
- HDMI video output at up to 4K resolution

Storage and Playback

- Up to 2 SATA interfaces for HDD connection (up to 16 TB capacity per HDD)
- 8-ch synchronous playback

Network & Ethernet Access

- 1 self-adaptive 10/100/1000 Mbps Ethernet interface
- Hik-Connect for easy network management

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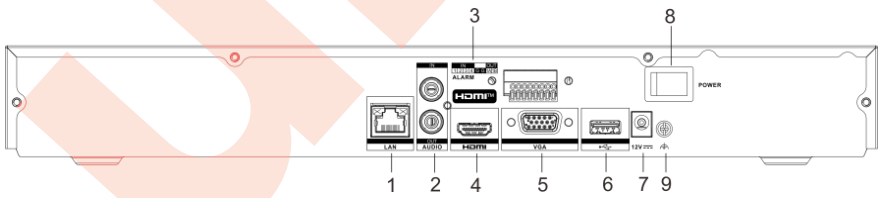
▪ Specification

Intelligent Analytics	
AI by Device	Facial recognition, perimeter protection, motion detection 2.0
AI by Camera	Facial recognition, perimeter protection, throwing objects from building, motion detection2.0, ANPR, VCA
Facial Recognition	
Facial Detection and Analytics	Face picture comparison, human face capture, face picture search
Face Picture Library	Up to 16 face picture libraries, with up to 20,000 face pictures in total (each picture ≤ 4 MB, total capacity ≤ 1 GB)
Facial Detection and Analytics Performance	1-ch, 8 MP
Face Picture Comparison	4-ch
Motion Detection 2.0	
By Device	All channels, 4 MP (when enhanced SVC mode is enabled, up to 8 MP) video analysis for human and vehicle recognition to reduce false alarm
By Camera	All channels
Perimeter Protection	
By Device	2-ch, 4 MP (HD network camera, H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm
By Camera	All channels
Video and Audio	
IP Video Input	8-ch
Incoming Bandwidth	80 Mbps
Outgoing Bandwidth	160 Mbps
HDMI Output	1-ch, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz
VGA Output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz
Video Output Mode	HDMI/VGA independent output
CVBS Output	N/A
Audio Output	1-ch, RCA (2.0 Vp-p, 1 KΩ, using the audio input)
Two-Way Audio	1-ch, RCA (Linear, 1 KΩ)
Decoding	
Decoding Format	H.265/H.265+/H.264+/H.264
Recording Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous playback	8-ch
Decoding Capability	AI on: 2-ch@12 MP (30 fps)/3-ch@8 MP (30 fps)/6-ch@4 MP (30 fps)/12-ch@1080p (30 fps) AI off: 2-ch@12 MP (30 fps)/4-ch@8 MP (30 fps)/8-ch@4 MP (30 fps)/16-ch@1080p (30 fps)
Stream Type	Video, Video & Audio
Audio Compression	G.711ulaw/G.711alaw/G.722/G.726/AAC
Network	
Remote Connection	128
API	ONVIF (profile S/G); SDK; ISAPI

Compatible Browser	IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network Interface	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Auxiliary Interface	
SATA	2 SATA interfaces
Capacity	Up to 16 TB capacity for each HDD
USB Interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 2.0
Alarm In/Out	4/1
General	
GUI Language	English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz , Brazilian Portuguese, Indonesian
Power Supply	12 VDC, 3.3 A
Consumption	≤ 15 W (without HDD)
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10% to 90%
Dimension (W × D × H)	385 mm × 315 mm × 52 mm (15.2"× 12.4" × 2.0")
Weight	≤ 1 kg (without HDD, 2.2 lb.)
Certification	
CE	EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017
Obtained Certification	CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS

▪ Physical Interface

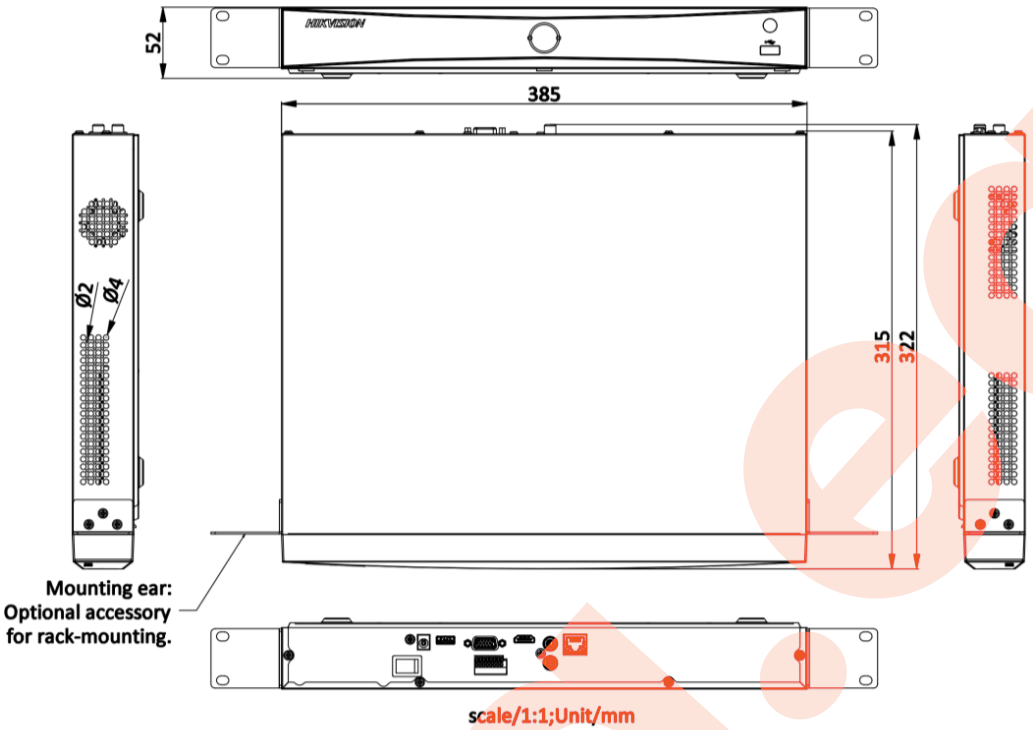


No.	Description	No.	Description
1	LAN network interface	6	USB interface
2	AUDIO IN and AUDIO OUT	7	Power supply
3	ALARM IN and ALARM OUT	8	Power switch
4	HDMI interface	9	GND
5	VGA interface		

▪ Available Model

DS-7608NXI-K2(D)

▪ Dimension



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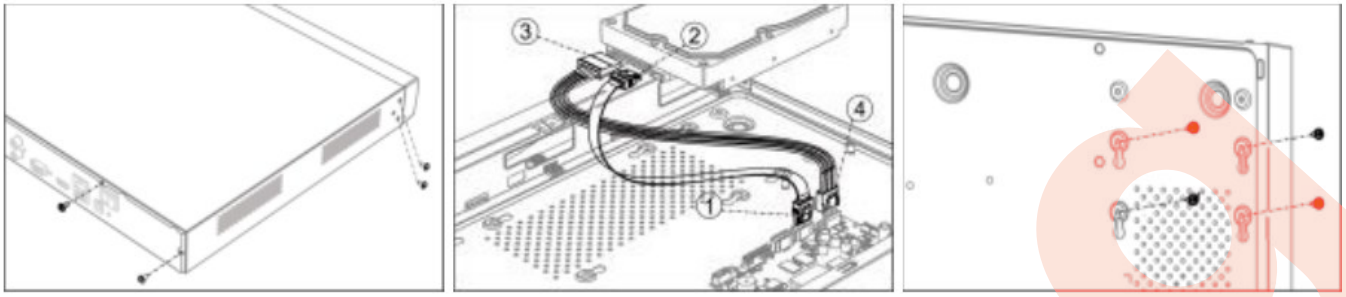
HDD Installation (1U Chassis)



1. Remove the Cover

Remove the screws on the back and sides of the device, then remove the cover.

2. Connect the Cables

Connect the HDD data cable and power cable between the motherboard and the HDD.

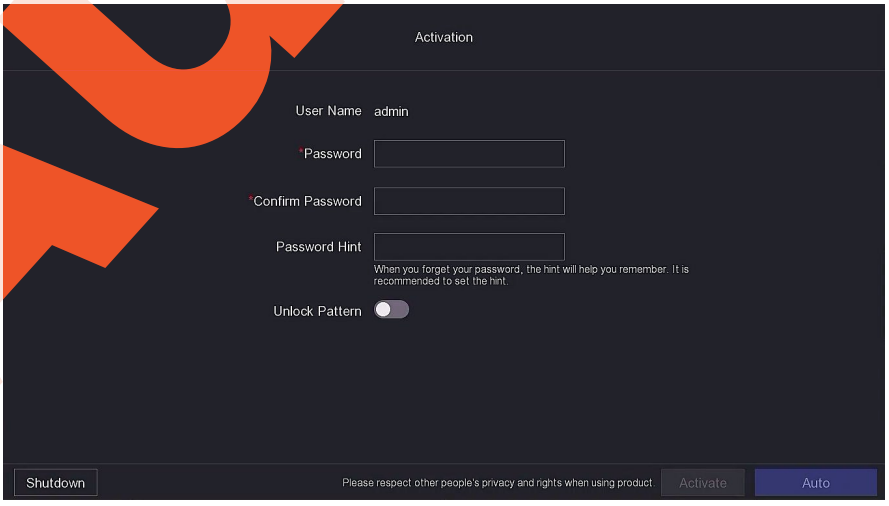
3. Fix the HDD

Place the HDD and fix it with the screws on the bottom of the chassis, then refit the cover.

Storage: Up to 2 SATA HDDs, up to 16 TB each. Use the factory-recommended HDD where possible.

Startup & Activation

- Plug the power supply into an electrical outlet and press the power switch on the rear panel.
- Select the GUI language and click Apply. The default output is 1280 x 720/60 Hz; with an HDMI monitor it adjusts to 1920 x 1080/60 Hz automatically.
- Enter the same admin password in Password and Confirm Password (default user name: admin). No operation is allowed before activation.
- Optional: set a password hint and an unlock pattern (at least 4 dots), then click Activate.
- The device can also be activated via web browser, SADP, or client software.



Activation screen (local GUI)

Password Rules & Reset

- 8 to 16 characters, using at least 2 types: digits, upper-case letters, lower-case letters, special characters.
- Must not contain the user name, "123", "admin", 4+ consecutive increasing/decreasing digits, or 4+ repeated characters.
- Configure at least one password-reset method: reserved email, Hik-Connect, or security questions.
- After 5 wrong unlock-pattern attempts, the device switches to normal password login.

Default Network Ports

Port	Protocol	Service	Default
80	TCP	HTTP web service	Enabled
443	TCP	HTTPS web service (TLS)	Disabled
8000	TCP	SDK / client service	Enabled
8443	TCP	SDK service (TLS)	Enabled
554	TCP	RTSP streaming	Enabled
7681	TCP	WebSocket	Enabled
22	TCP	SSH	Disabled
161 / 162	TCP	SNMP management / trap	Disabled
3702	UDP	ONVIF discovery	Disabled
37020	UDP	SADP device discovery	Enabled
49152	UDP	UPnP discovery	Disabled
123 / 25	TCP	NTP / SMTP (outgoing, configurable)	Disabled

Note: HTTP, HTTPS, SDK, RTSP, SNMP, NTP and SMTP ports are configurable. Hik-Connect uses outgoing connections only.

Installation & Safety Notes

- Indoor use only; install in a well-ventilated, dust-free place without liquids, secured on a rack or shelf.
- Keep at least 200 mm around the device for ventilation and do not block the vents.
- Connect to an earthed mains socket; use the device with a UPS and the original 12 VDC power supply.
- USB ports are for mouse, keyboard, USB flash drive or Wi-Fi dongle only (max. 0.1 A).
- Above 45 °C the power of some adapters may decrease; keep the device and HDDs in a cool environment.
- Use a surge suppressor in exposed sites (mountain top, iron tower, forest). Power off before wiring or servicing.

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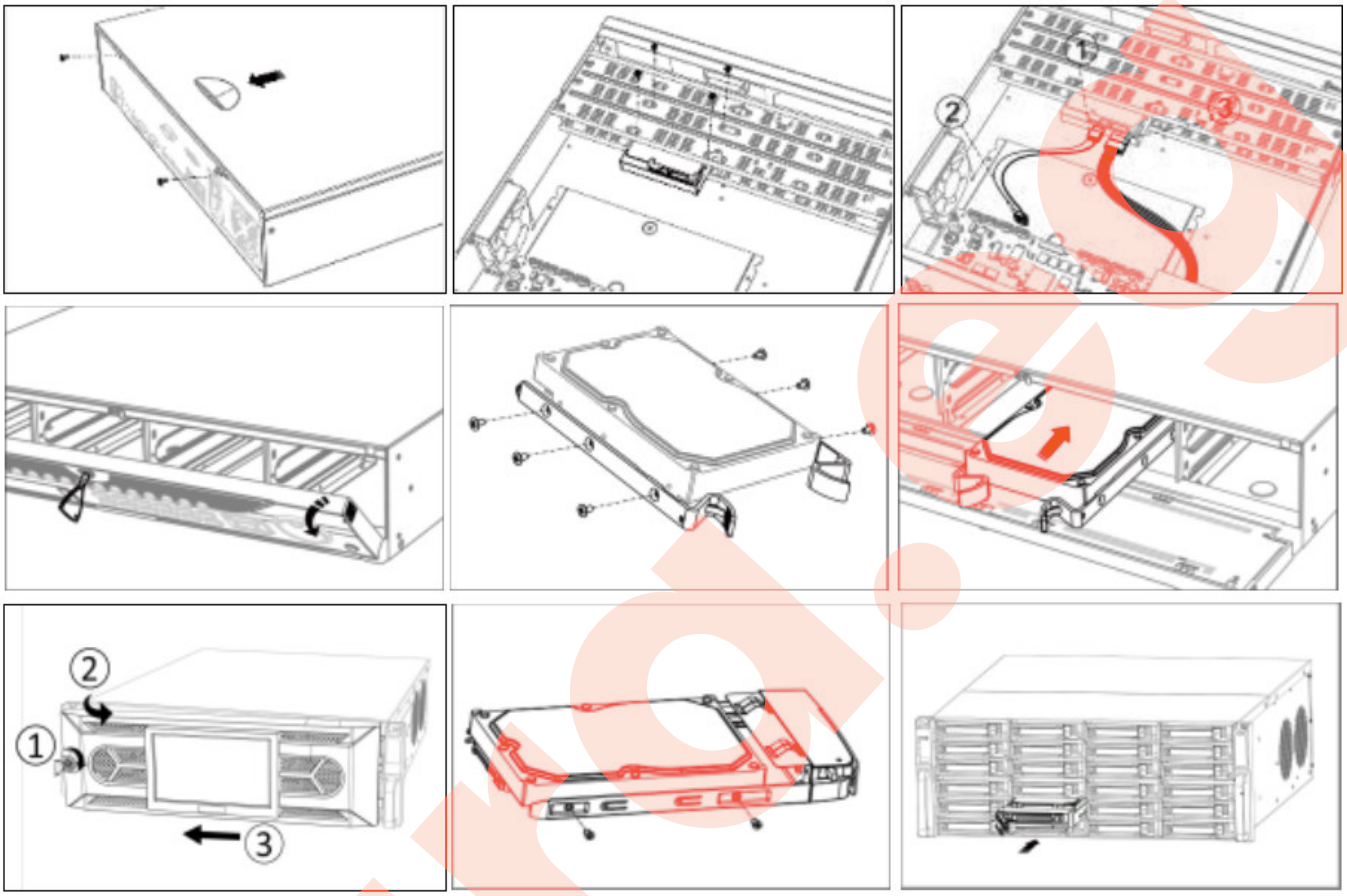
HDD Installation - Other Chassis Types

Reference drawings from the quick start guide for other recorder chassis (top cover, front-loading tray and hot-swap bay types).



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GUI Reference (Local Menu & Web)

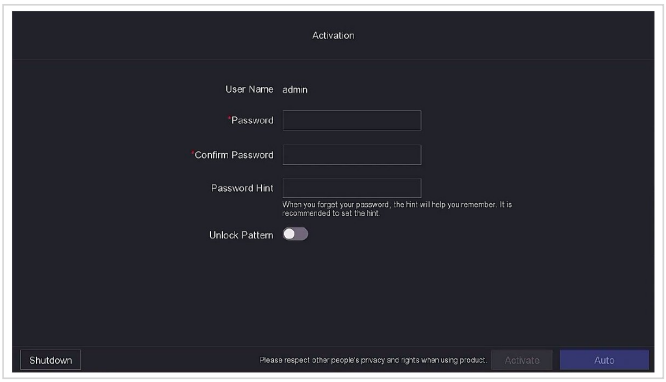

Fig. 1-1 Activation

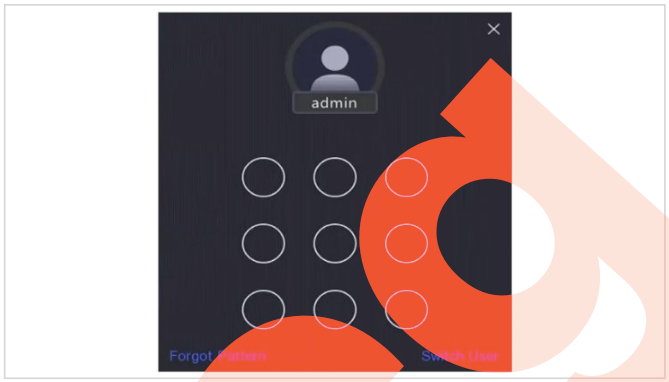

Fig. 1-2 Draw the Unlock Pattern

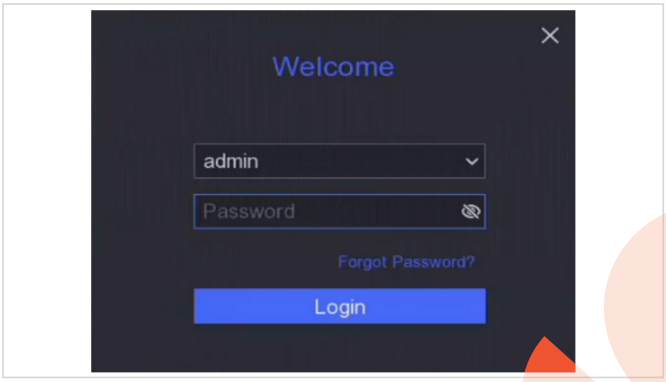

Fig. 1-3 Login Interface

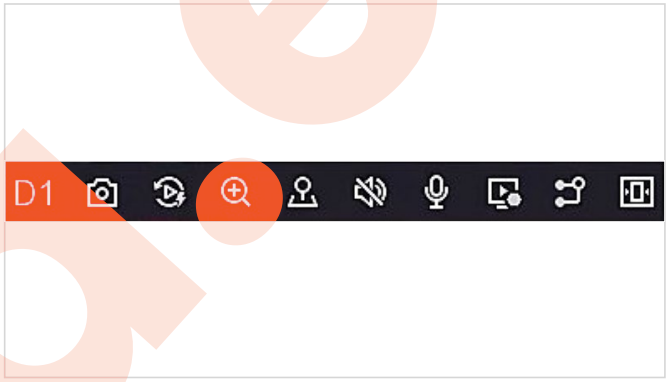

Fig. 2-1 Shortcut Menu

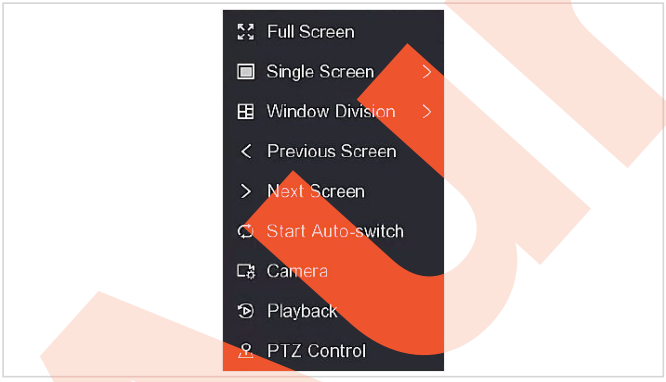

Fig. 2-2 Right Click Shortcut Menu

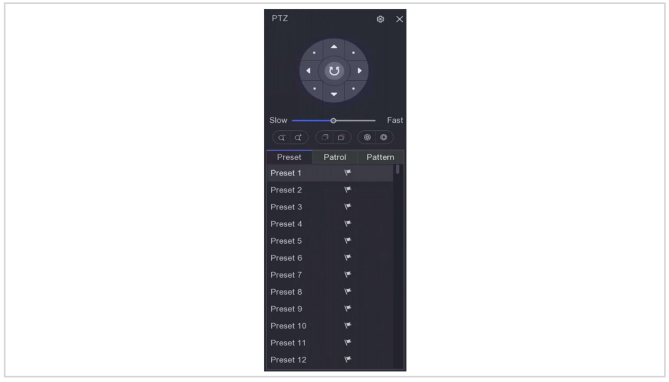

Fig. 2-3 PTZ Settings

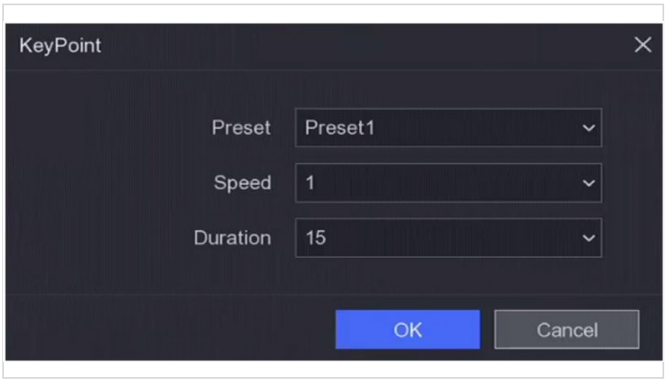

Fig. 2-4 Patrol Settings

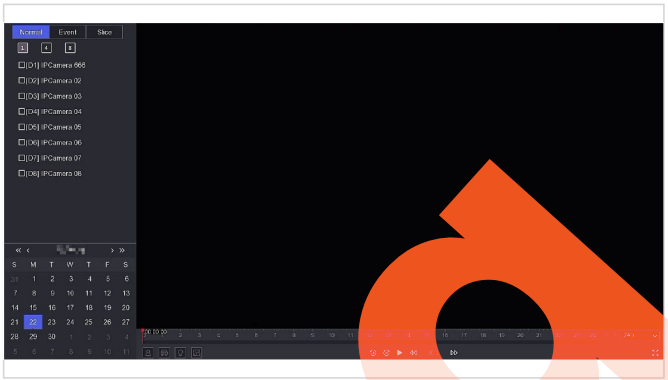

Fig. 3-1 Playback

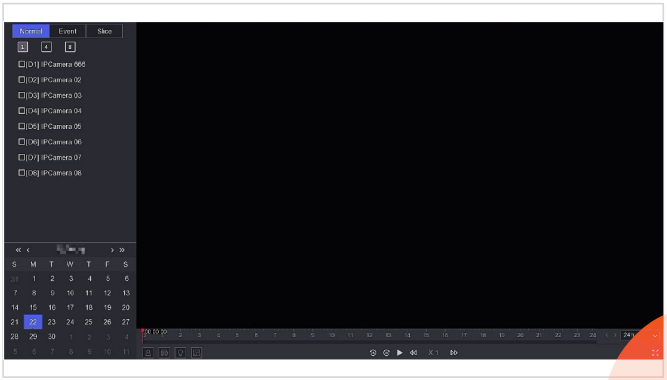

Fig. 3-2 Timeline



Fig. 3-3 Playback

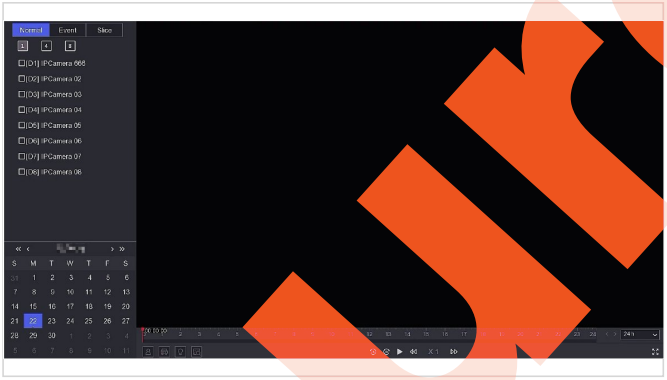

Fig. 3-4 Control Bar

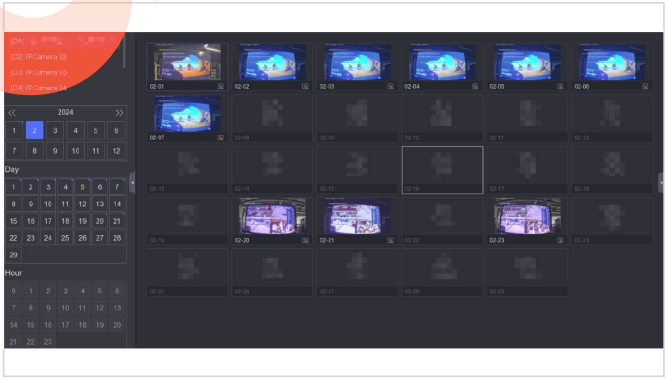

Fig. 3-5 Slice Playback

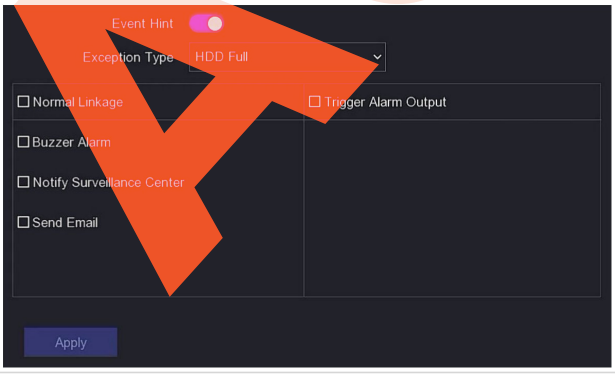

Fig. 5-1 Exception

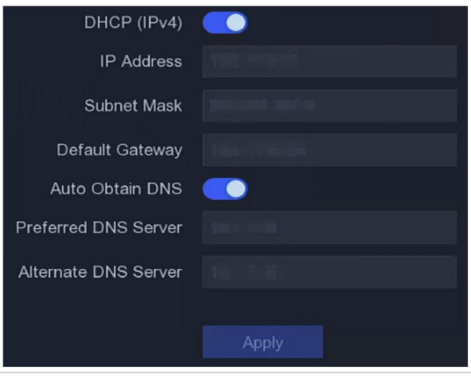

Fig. 5-2 Network

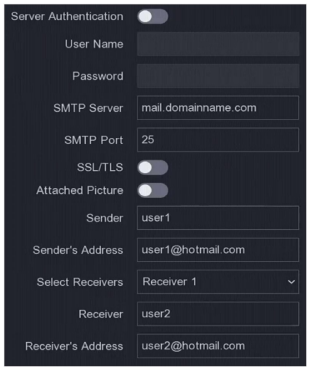

Fig. 5-4 Email

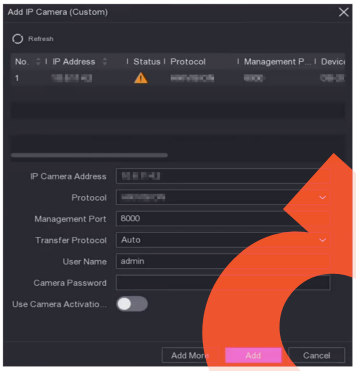

Fig. 5-5 Add Network Camera

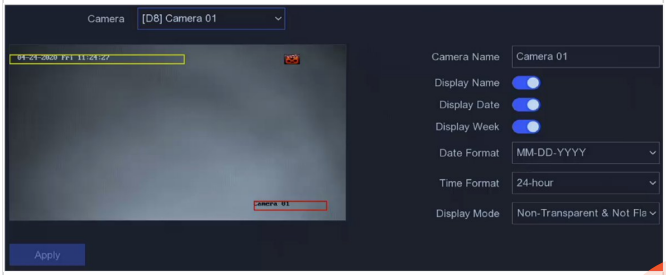

Fig. 5-6 OSD



Fig. 5-7 Motion Detection



Fig. 5-8 Set Arming Schedule

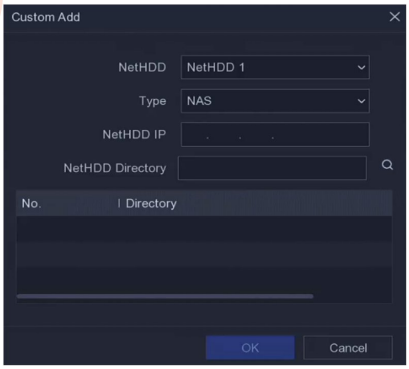

Fig. 5-9 Add NetHDD

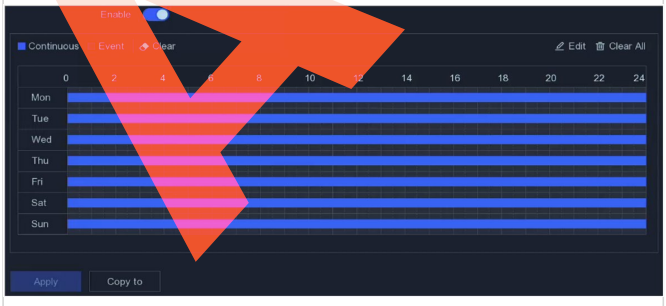

Fig. 5-10 Recording Schedule

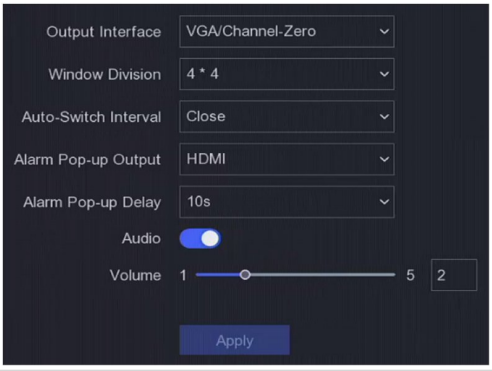

Fig. 6-1 Live View-General

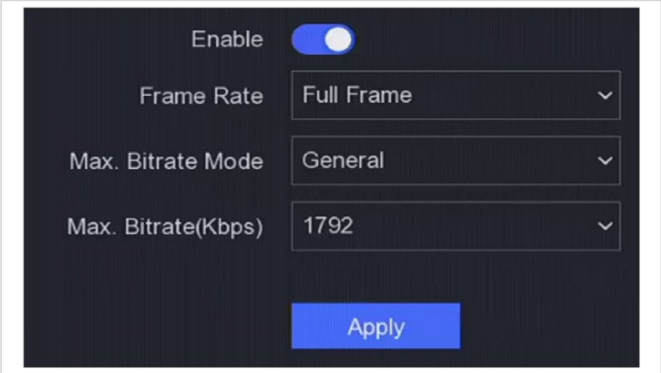

Fig. 6-2 Channel-Zero

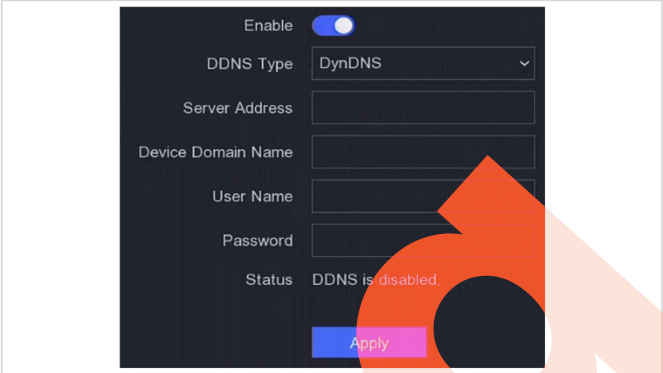

Fig. 6-3 DDNS

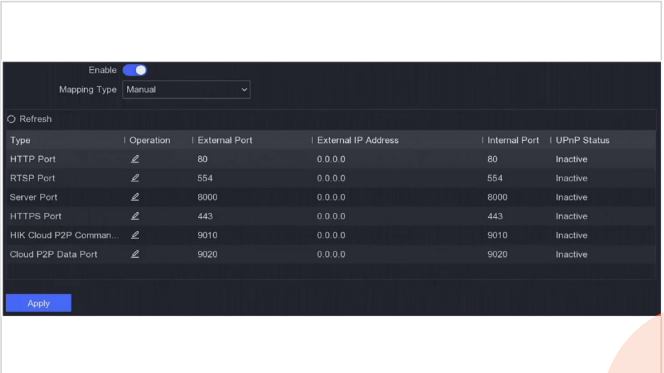

Fig. 6-4 NAT

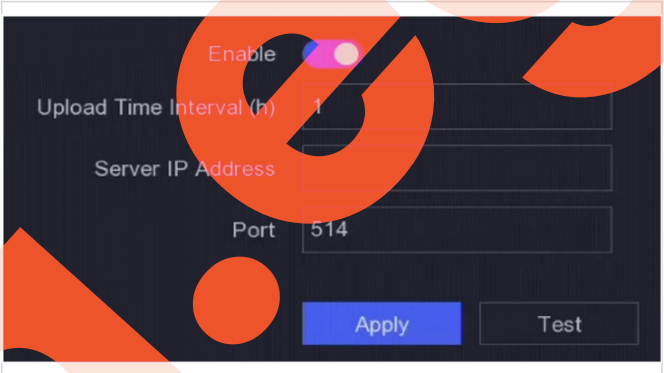

Fig. 6-5 Log Server Settings

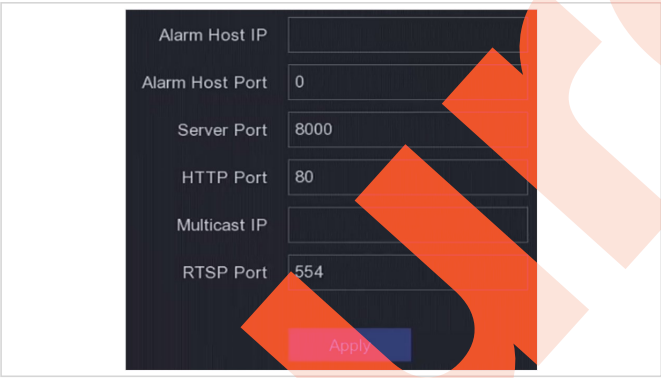

Fig. 6-6 Port Settings

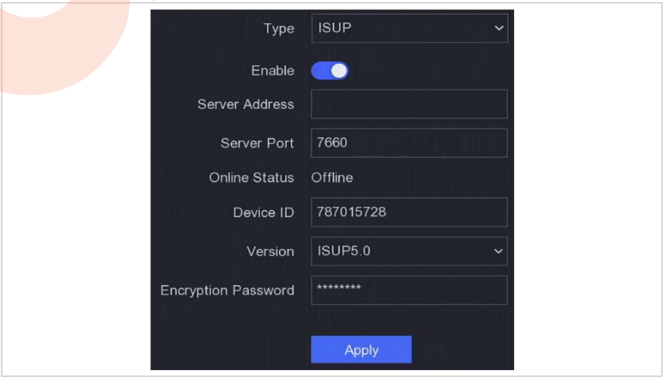

Fig. 6-7 ISUP

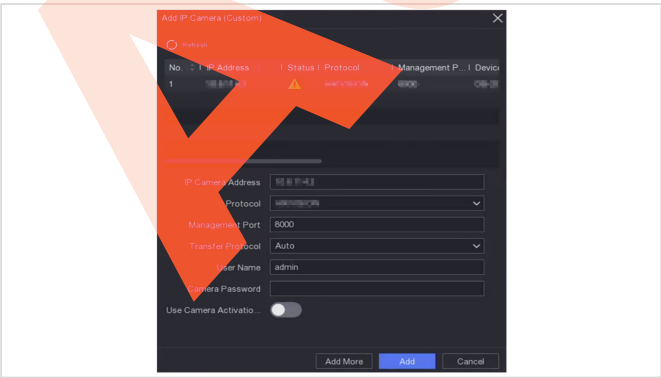

Fig. 6-8 Add IP Camera

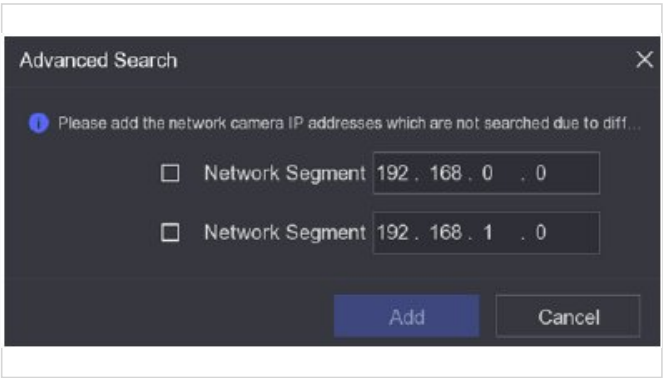

Fig. 6-9 Enter Network Segment

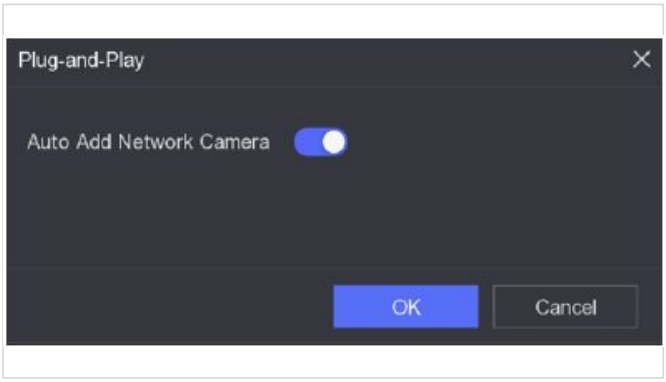

Fig. 6-10 Auto Add Network Camera

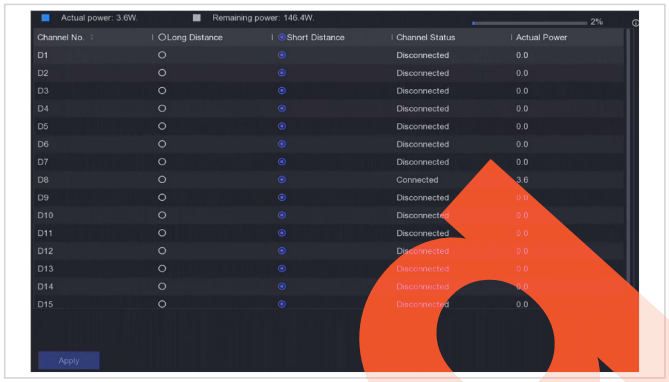

Fig. 6-11 Add PoE Camera

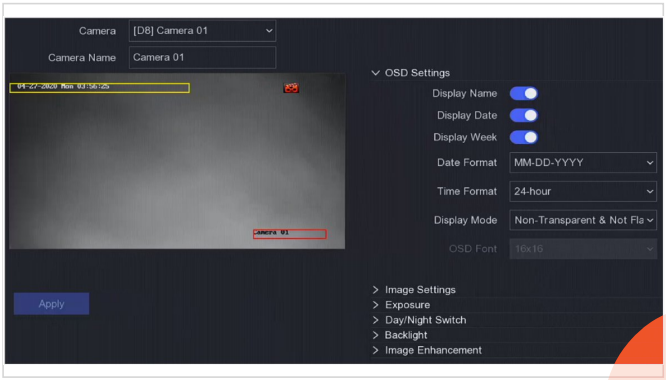

Fig. 6-12 OSD

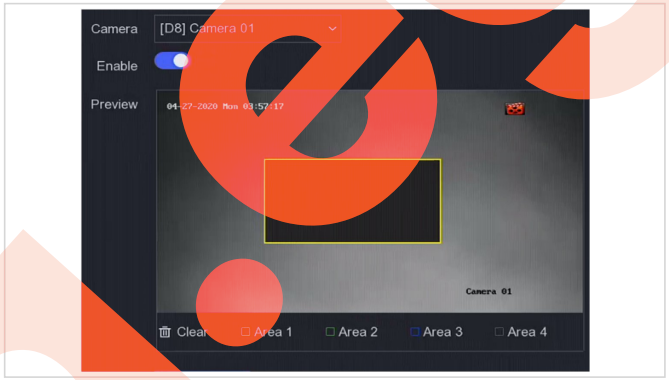

Fig. 6-13 Privacy Mask

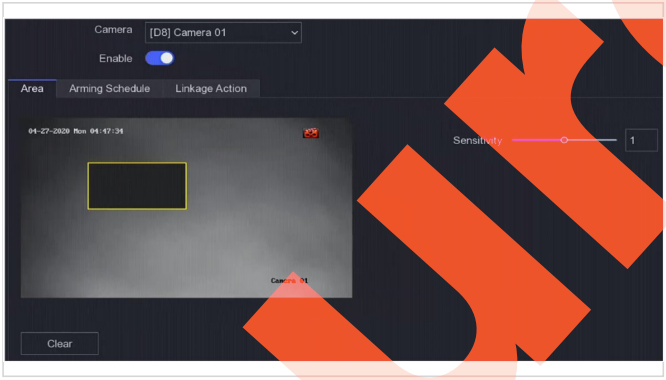

Fig. 6-14 Video Tampering

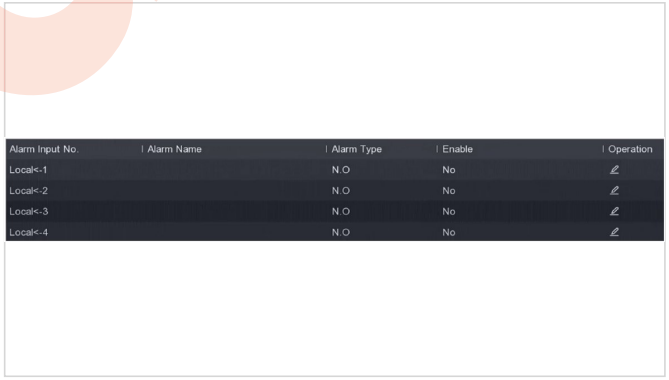

Fig. 6-15 Alarm Input

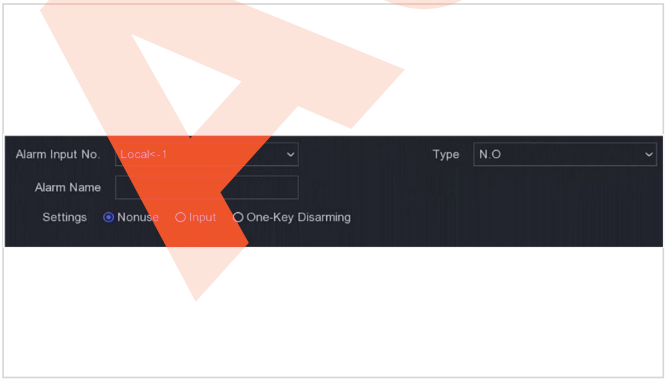

Fig. 6-16 Edit Alarm Input

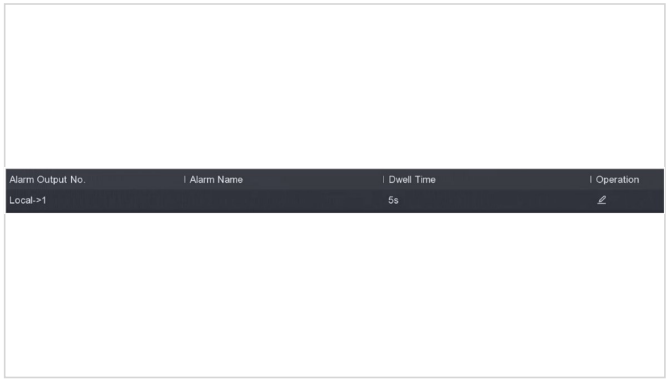

Fig. 6-17 Alarm Output

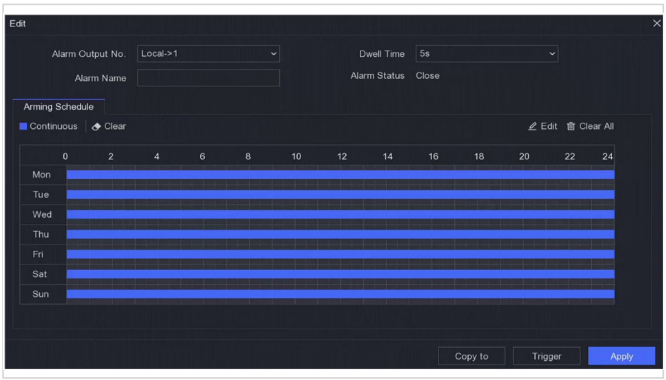

Fig. 6-18 Edit Alarm Output

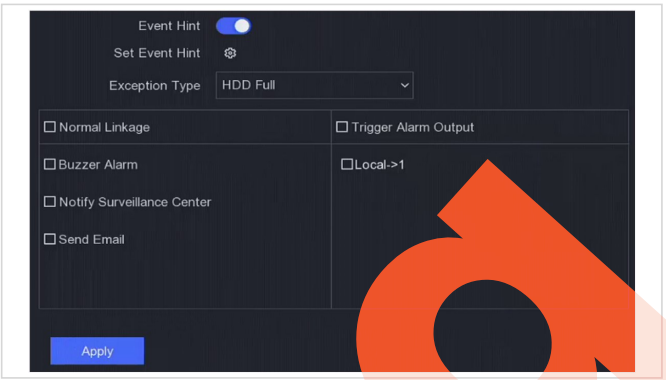

Fig. 6-19 Exceptions



Fig. 6-20 Face Capture

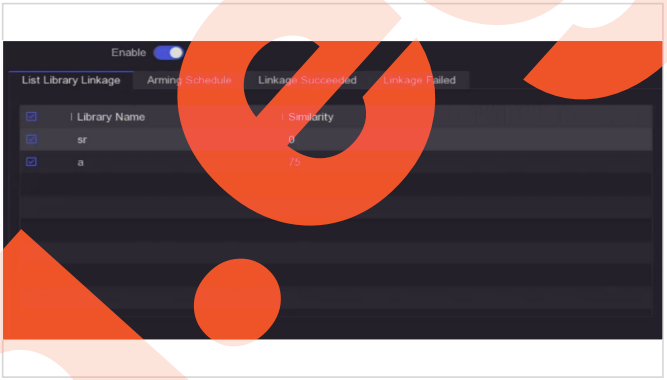

Fig. 6-21 Face Picture Comparison

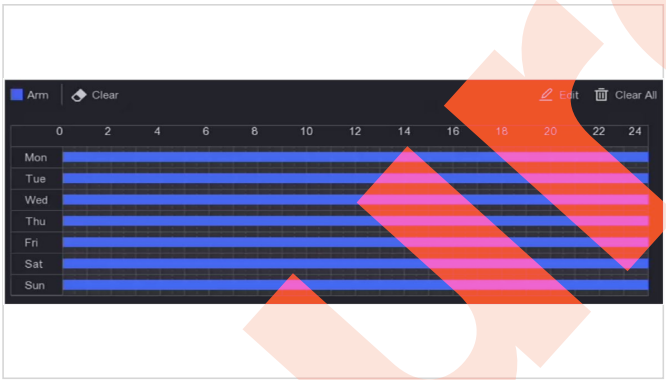

Fig. 6-22 Set Arming Schedule

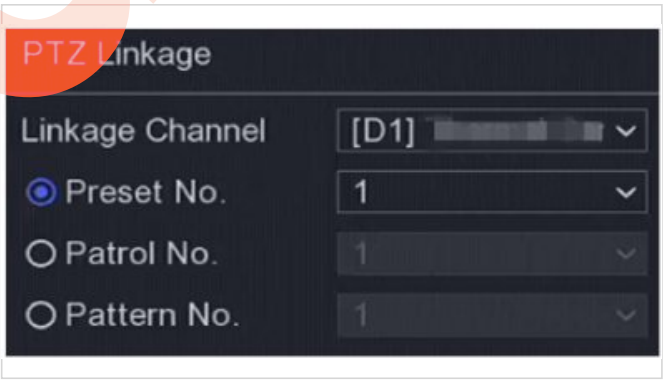

Fig. 6-23 PTZ Linkage

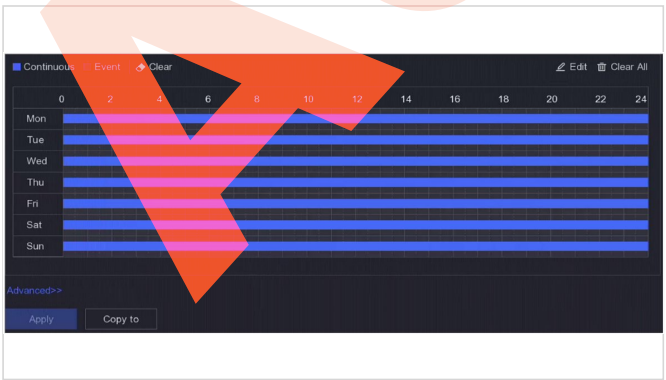

Fig. 6-24 Recording Schedule

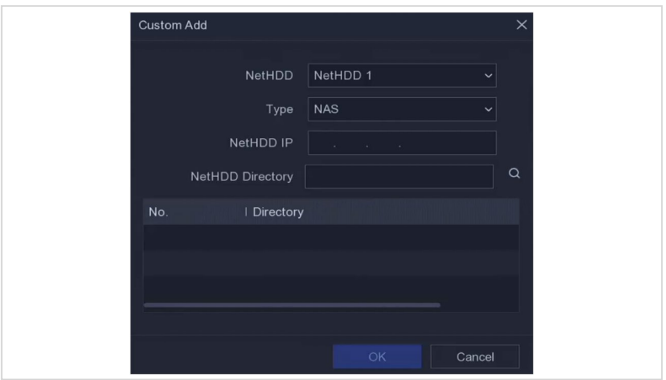

Fig. 6-25 Add NetHDD

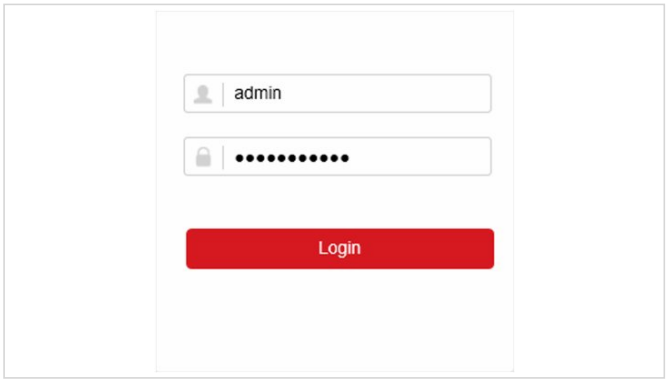

Fig. 9-1 Login



Fig. 9-2 Live View

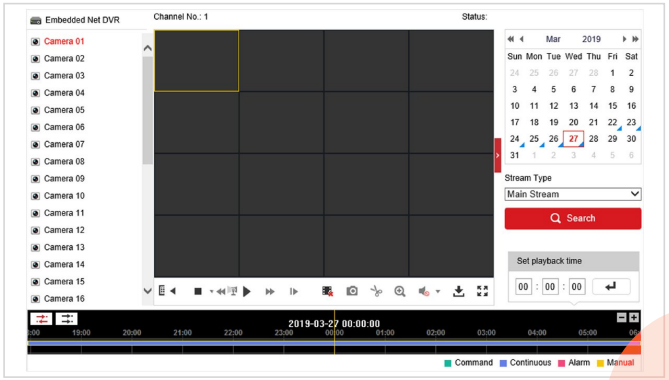

Fig. 9-3 Playback

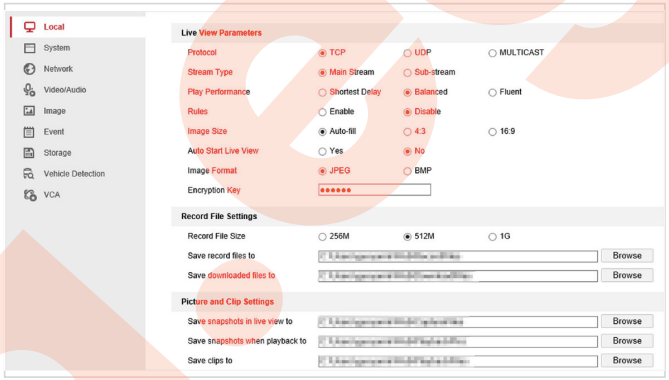

Fig. 9-4 Configuration

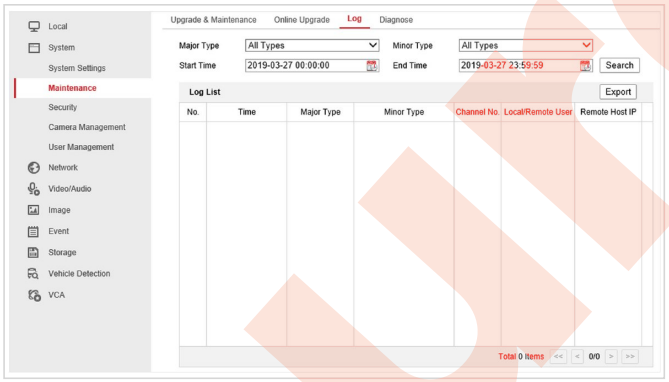

Fig. 9-5 Log