DS-7604NXI-K1/4P

4-CH POE 1U K SERIES ACUSENSE 4K NVR

4-ch PoE | Up to 12 MP Decoding | 1 SATA up to 10 TB

TECHNICAL DATASHEET

English | Reference edition v1.0

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Branded reference copy - product model DS-7604NXI-K1/4P



- Up to 4-ch IP camera inputs, plug & play with 4 power-over-Ethernet (PoE) interfaces
- H.265+/H.265/H.264+/H.264 video formats
- Up to 1-ch@12 MP or 2-ch@8 MP or 5-ch@4 MP or 10-ch@1080p decoding capacity
- Up to 40 Mbps incoming bandwidth
- Adopt Hikvision Acusense technology to minimize manual effort and security costs

Specification

Model		DS-7604NXI-K1/4P(USA-STD)/Alarm4+1/SP
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	Face Attributes	N/A
	Facial Detection and Analytics	Face picture comparison, human face capture, face picture search
	Face Picture Library	
	Facial Detection and Analytics Performance	
	Face Picture Comparison (Captured from Camera)	2-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	1-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	4-ch
	Incoming Bandwidth	40 Mbps
	Outgoing Bandwidth	80 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
	VGA Output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz
	Video Output Mode	HDMI1/VGA simultaneous output
	CVBS Output	N/A
	Audio Output	1-ch, RCA (Linear, 1 KΩ)
	Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 KΩ, using the audio input)
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	4-ch
	Decoding Capability	AI on: 1-ch@12 MP (30 fps)/1-ch@8 MP (30 fps)/3-ch@4 MP (30 fps)/6-ch@1080p (30 fps) AI off: 1-ch@12 MP (30 fps)/2-ch@8 MP (30 fps)/5-ch@4 MP (30 fps)/10-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
PoE	Interface	4, RJ-45 10/100 Mbps self-adaptive Ethernet interface
	Power	≤ 50 W
	Standard	IEEE 802.3af/at
Auxiliary Interface	SATA	1 SATA interface
	Capacity	Up to 10 TB capacity for each HDD
	USB Interface	Front panel: 1 × USB 2.0; Rear panel: 1 × USB 2.0
	Alarm In/Out	

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	48 VDC, 1.35 A
	Consumption	≤ 10 W (without HDD and PoE off)
	Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
	Working Humidity	10% to 90%
	Dimension (W × D × H)	320 mm × 240 mm × 48 mm (12.6"× 9.4" × 1.9")
	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	

**Note:*
**Alarm in/out can be optional for certain models. If you select a device model with "/Alarm4+1", then the device will have 4 alarm inputs and 1 alarm outputs.*

▪ Function

Smart Function

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 1 SATA interface for HDD connection (up to 10 TB)

4-ch synchronous playback

Network & Ethernet Access

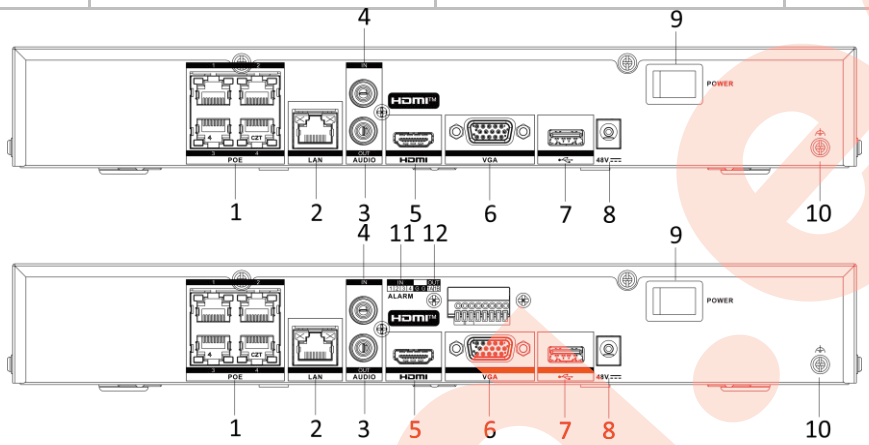
4 independent PoE network interfaces

1 self-adaptive 10/100 Mbps Ethernet interface

Hik-Connect for easy network management

▪ Physical Interface

No.	Description	No.	Description
1	Network interfaces with PoE function	7	USB interface
2	LAN network interface	8	Power supply
3	AUDIO OUT	9	Power switch
4	AUDIO IN	10	GND
5	HDMI interface	11	ALARM IN
6	VGA interface	12	ALARM OUT



▪ Available Model

DS-7604NXI-K1/4P(USA-STD)/Alarm4+1/SP

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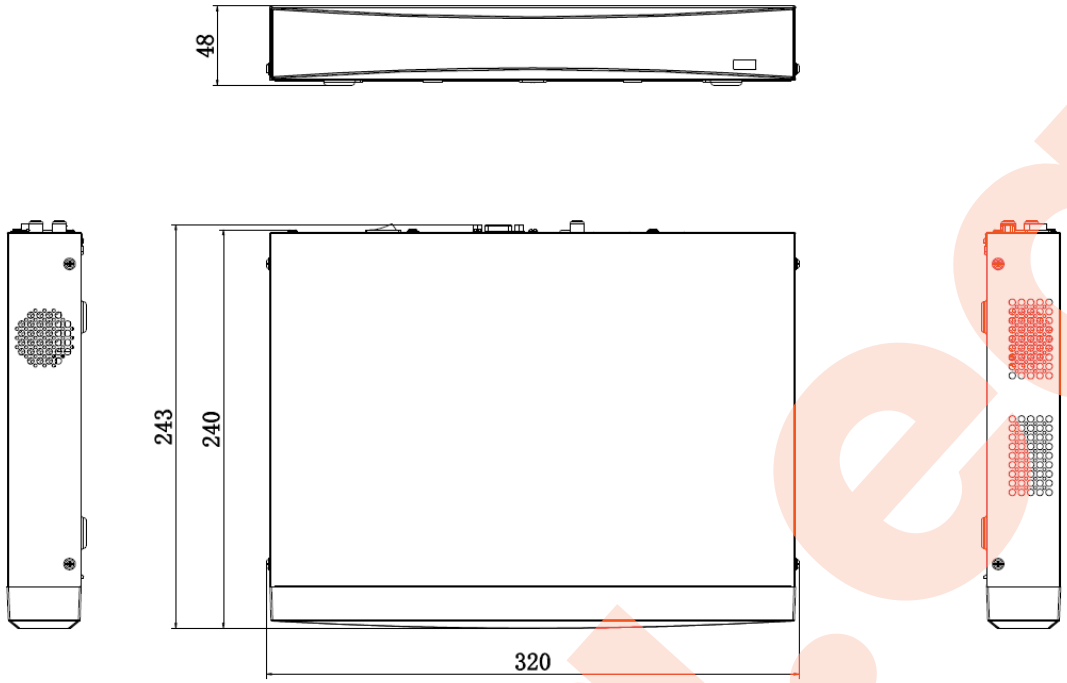
▪ Dimension



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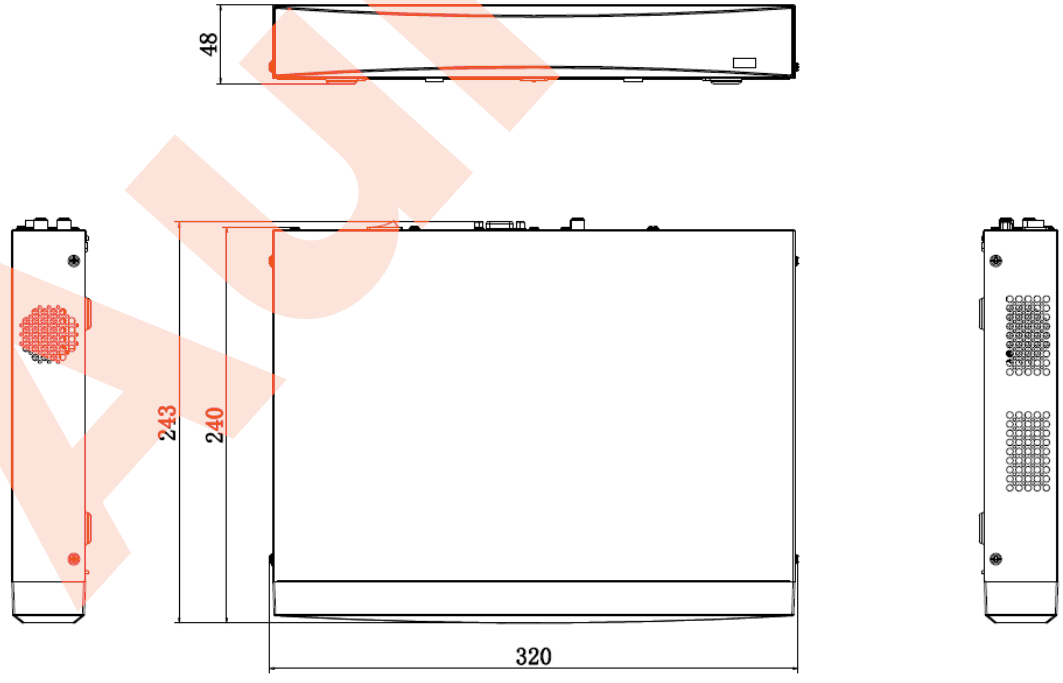
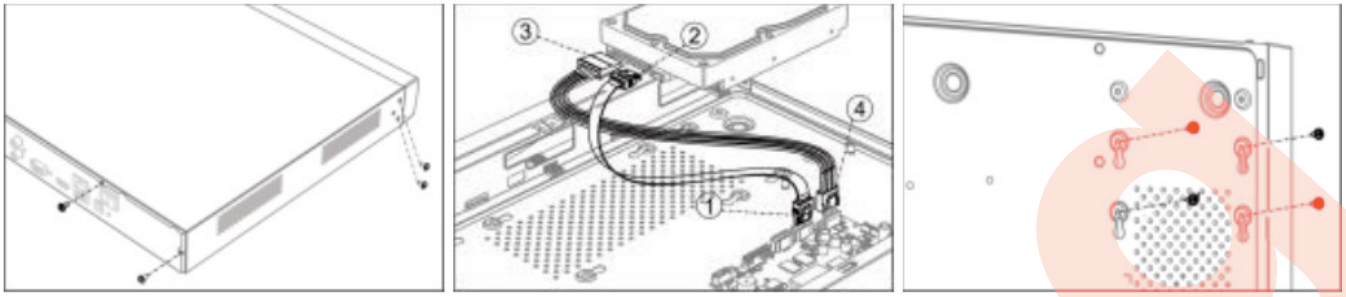


scale/1:1;Unit/mm

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.

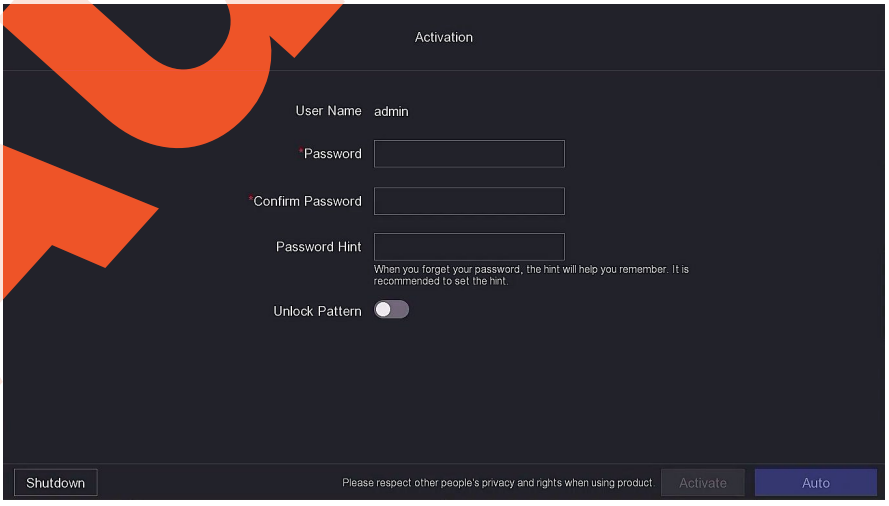
3. Fix the HDD

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

Storage: 1 SATA HDD, up to 10 TB. 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.

PoE: Up to 4 network cameras connect plug & play to the 4 PoE ports (PoE budget up to 50 W).

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 48 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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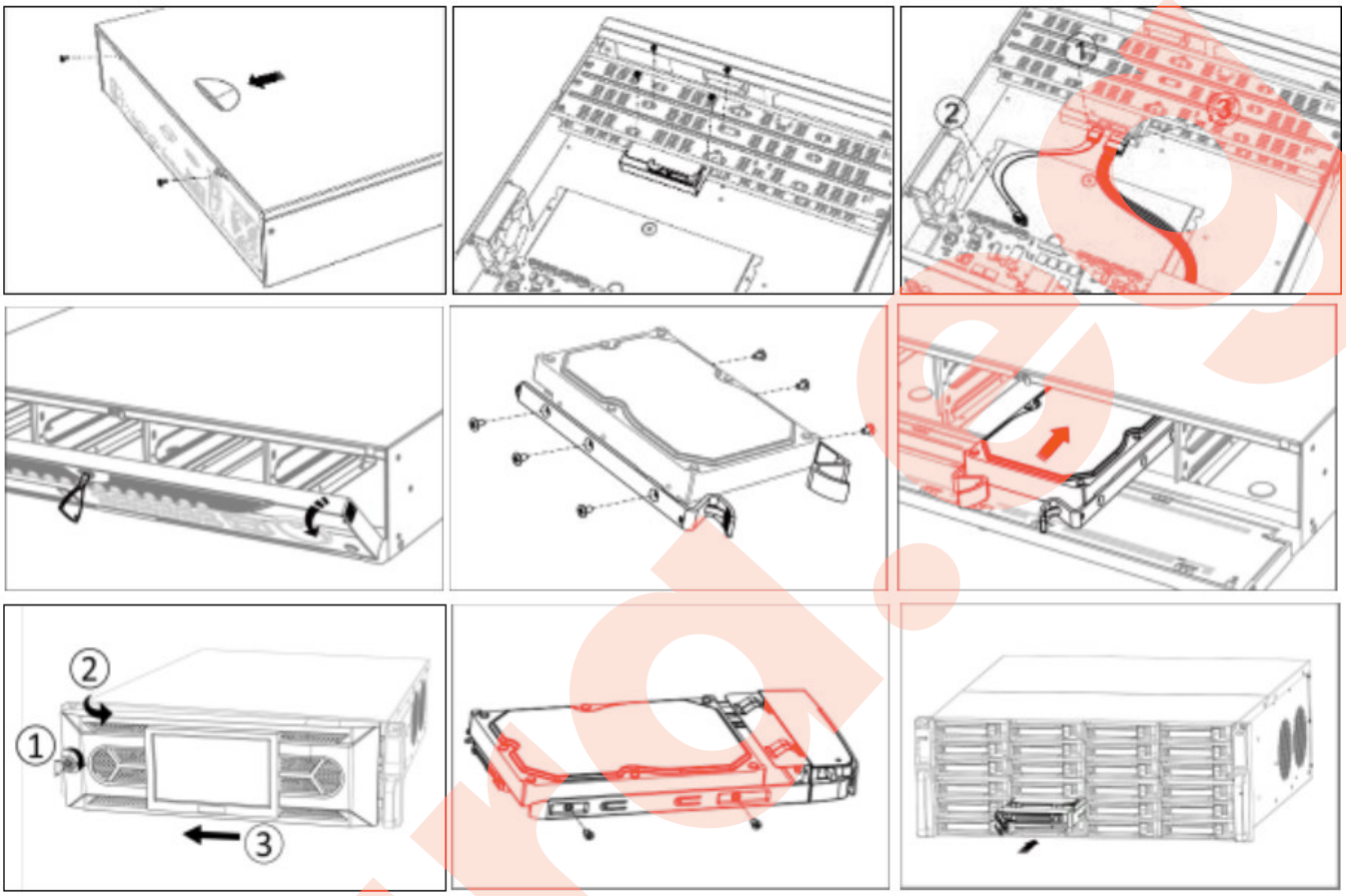
HDD Installation - Other Chassis Types

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)

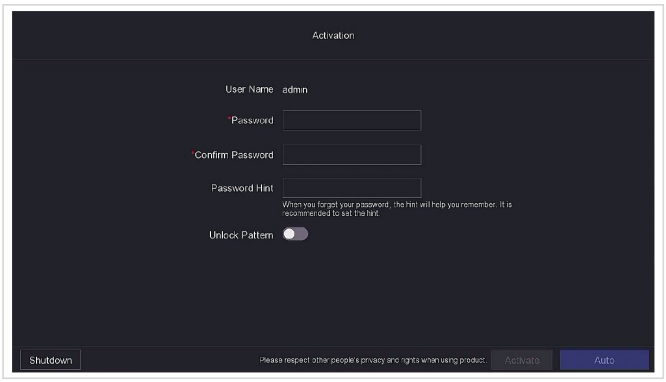

Fig. 1-1 Activation

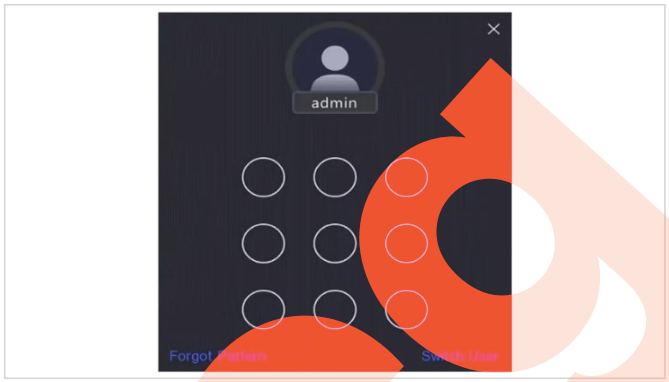

Fig. 1-2 Draw the Unlock Pattern

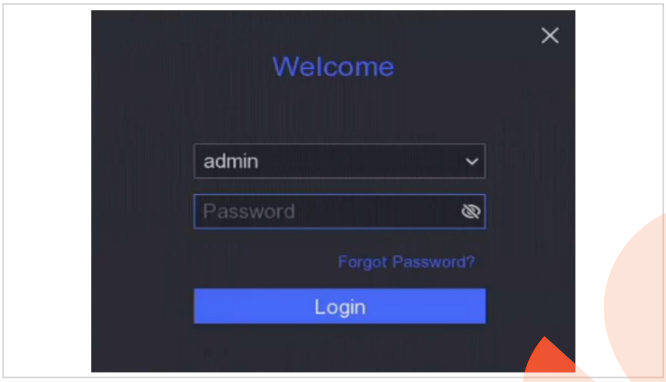

Fig. 1-3 Login Interface

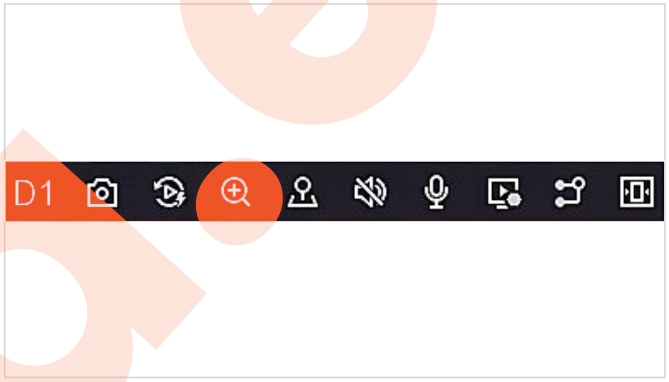

Fig. 2-1 Shortcut Menu

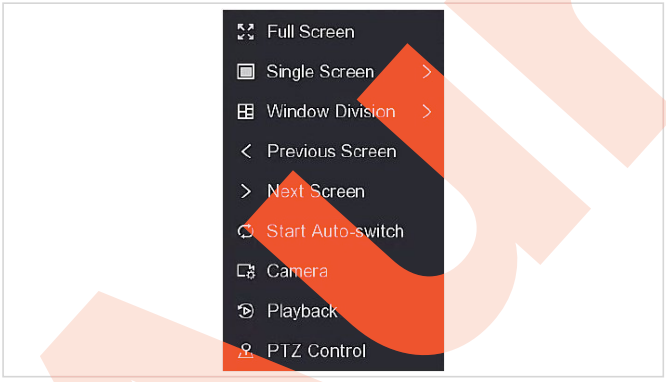

Fig. 2-2 Right Click Shortcut Menu

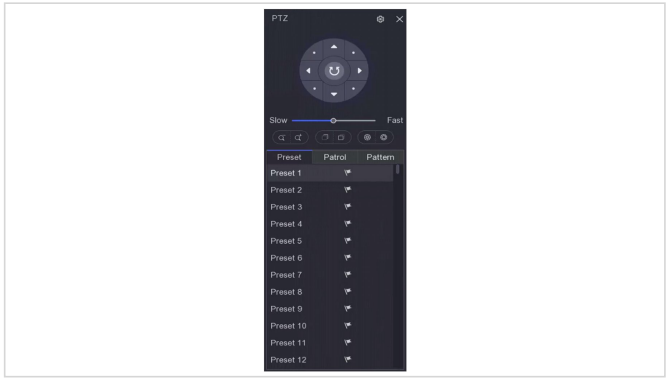

Fig. 2-3 PTZ Settings

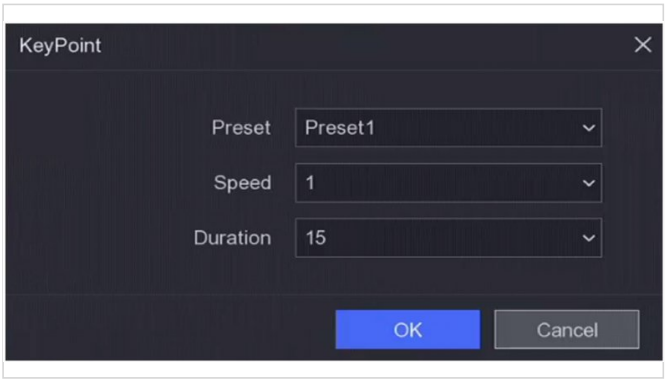

Fig. 2-4 Patrol Settings

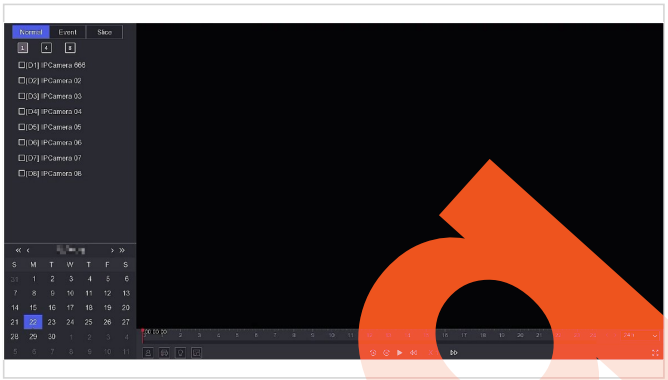

Fig. 3-1 Playback

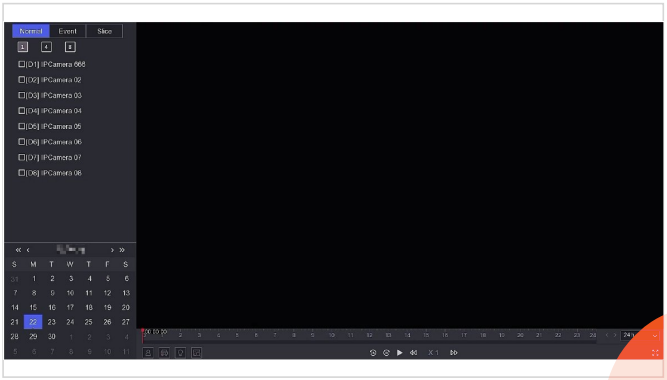

Fig. 3-2 Timeline



Fig. 3-3 Playback

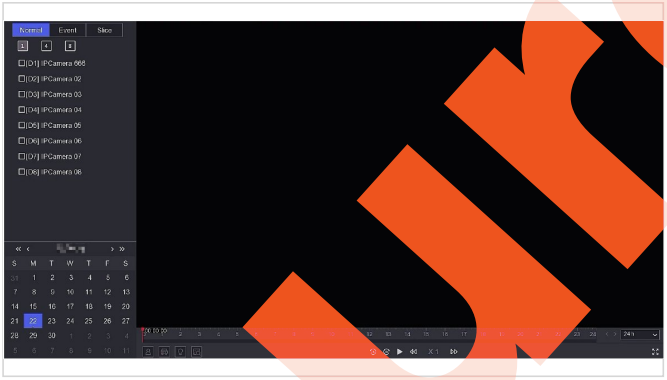

Fig. 3-4 Control Bar

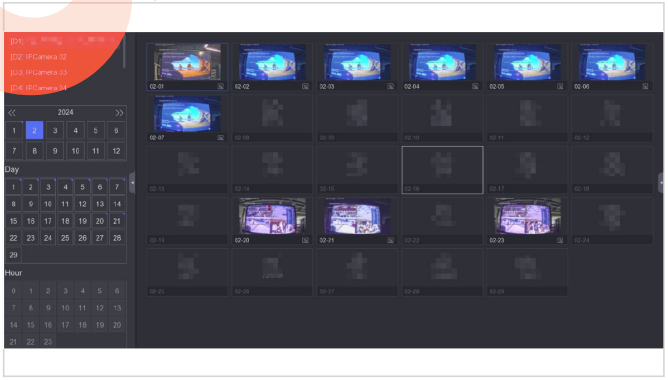

Fig. 3-5 Slice Playback

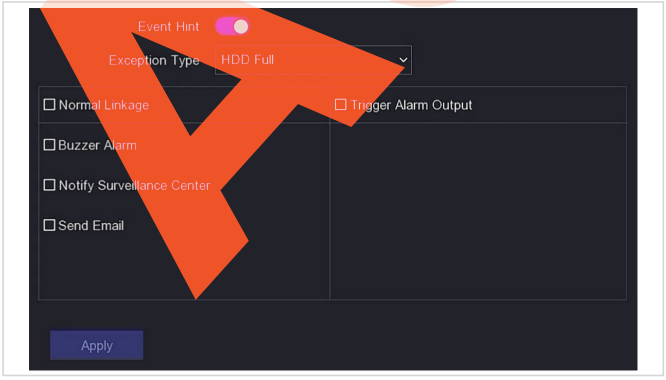

Fig. 5-1 Exception

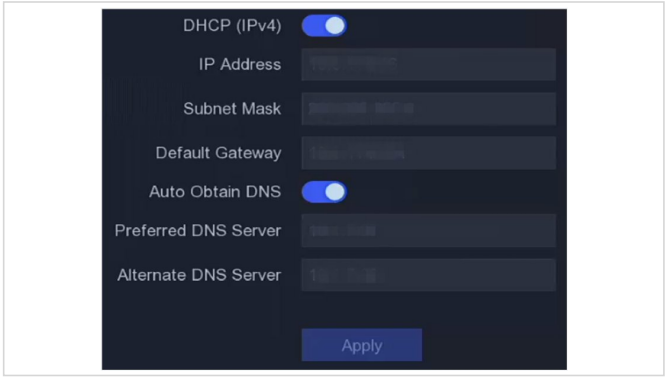

Fig. 5-2 Network

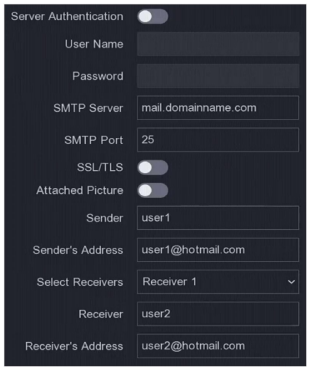

Fig. 5-4 Email

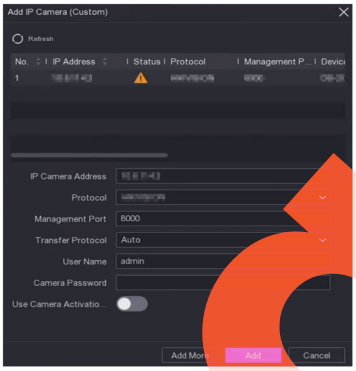

Fig. 5-5 Add Network Camera

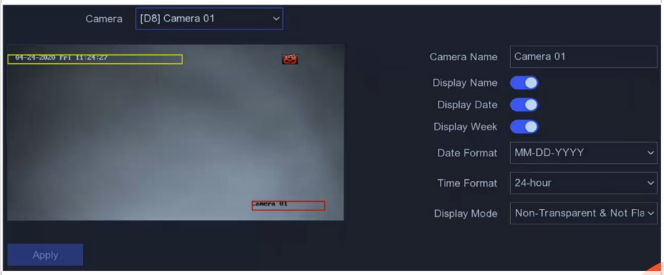

Fig. 5-6 OSD



Fig. 5-7 Motion Detection



Fig. 5-8 Set Arming Schedule

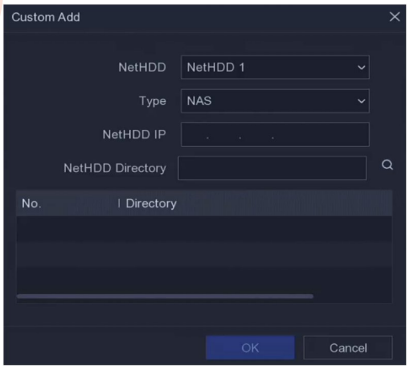

Fig. 5-9 Add NetHDD

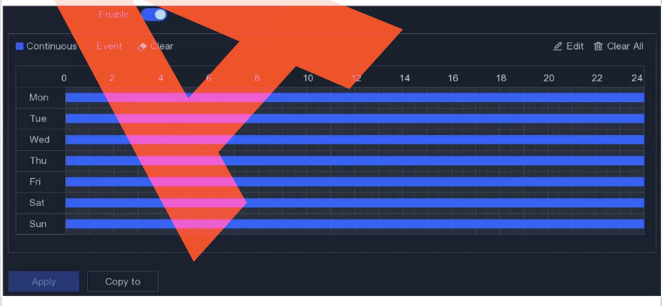

Fig. 5-10 Recording Schedule

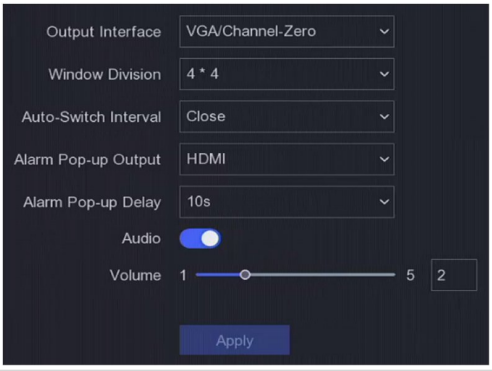

Fig. 6-1 Live View-General

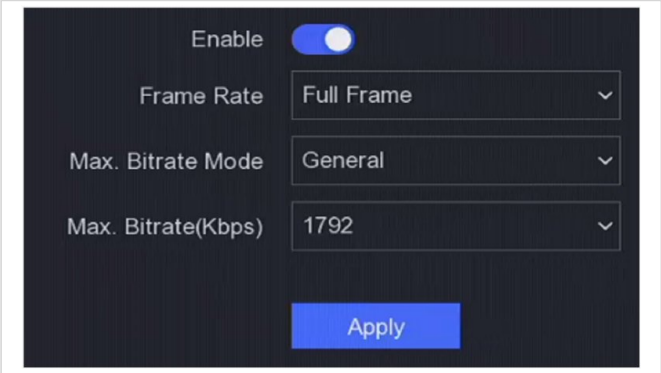

Fig. 6-2 Channel-Zero

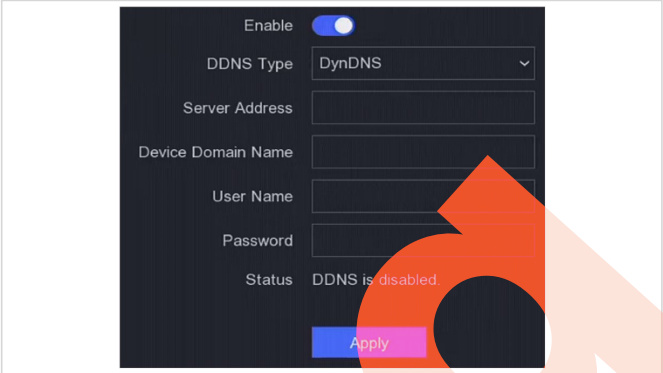

Fig. 6-3 DDNS

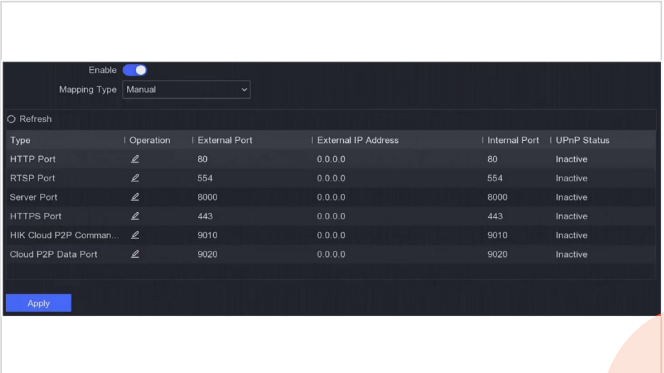

Fig. 6-4 NAT

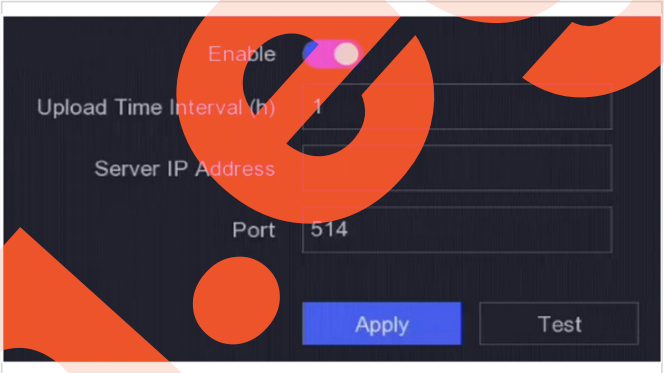

Fig. 6-5 Log Server Settings

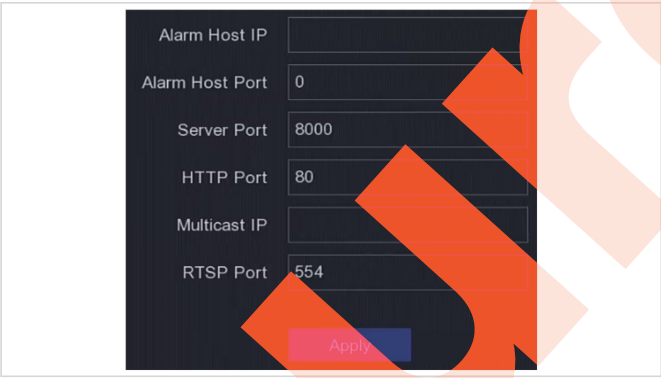

Fig. 6-6 Port Settings

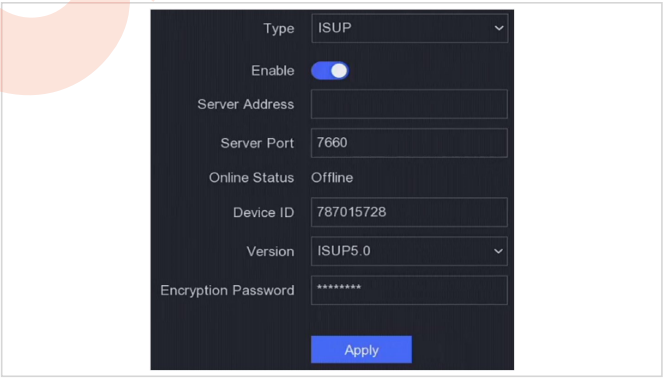

Fig. 6-7 ISUP

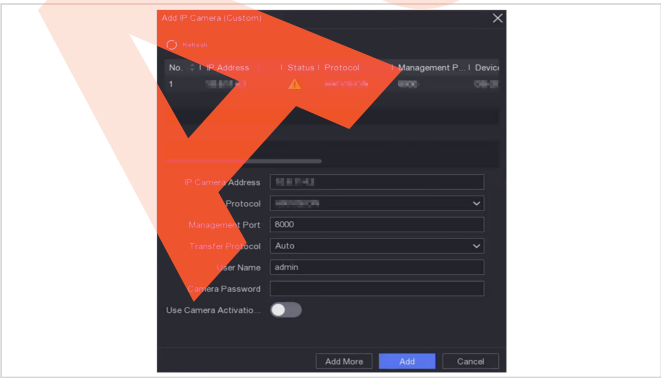

Fig. 6-8 Add IP Camera

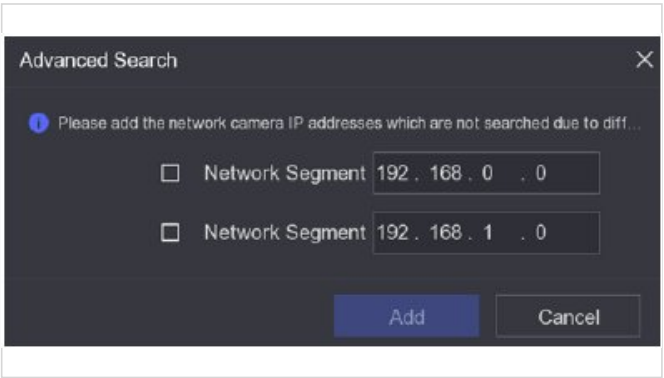

Fig. 6-9 Enter Network Segment

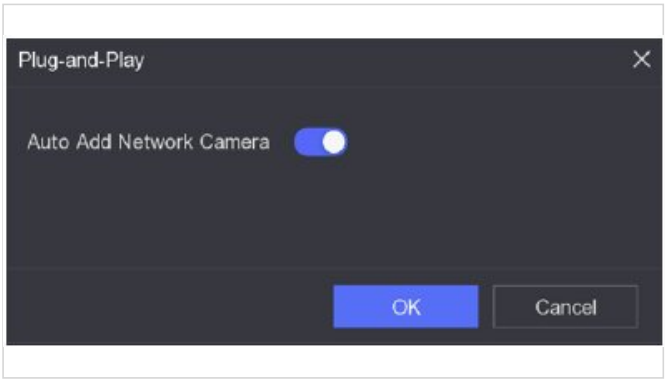

Fig. 6-10 Auto Add Network Camera

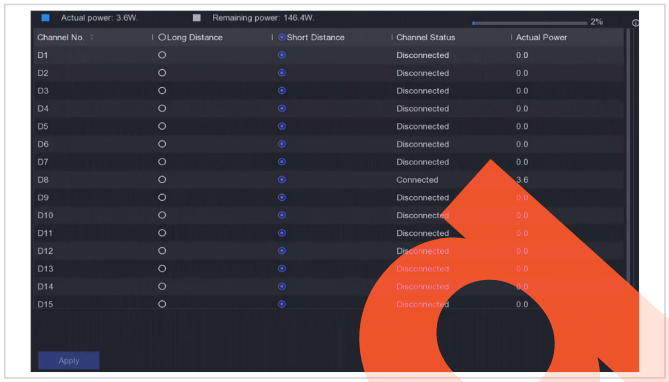

Fig. 6-11 Add PoE Camera

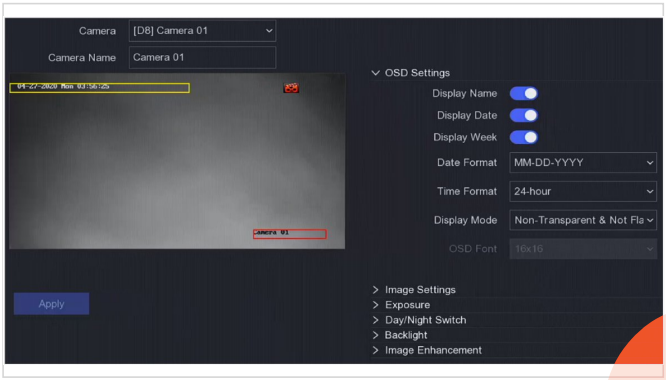

Fig. 6-12 OSD

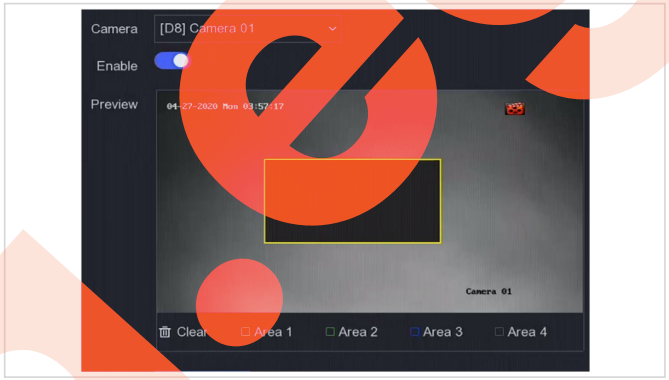

Fig. 6-13 Privacy Mask



Fig. 6-14 Video Tampering

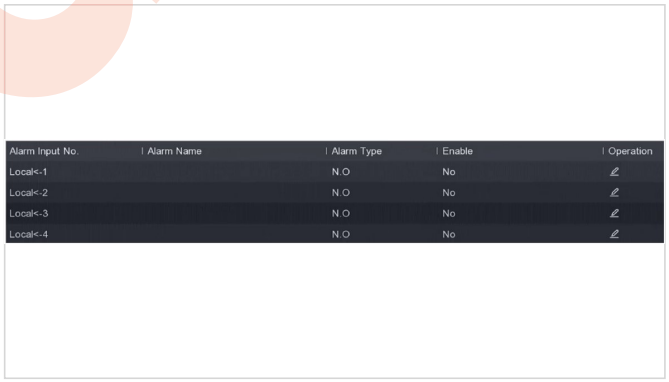

Fig. 6-15 Alarm Input

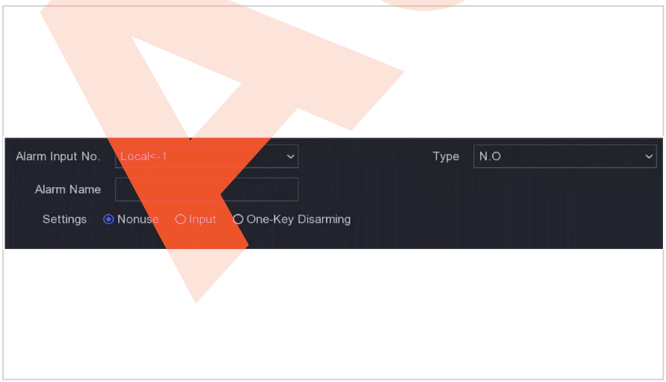

Fig. 6-16 Edit Alarm Input

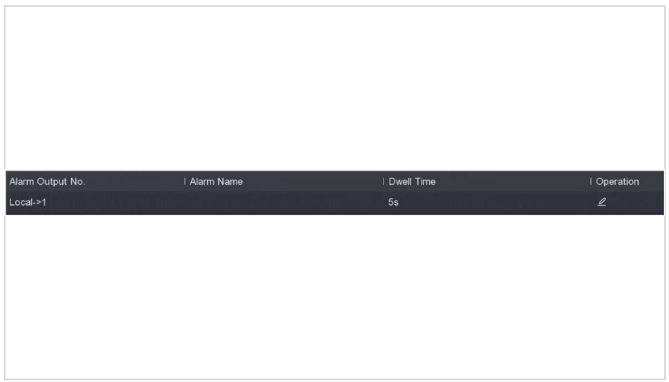

Fig. 6-17 Alarm Output

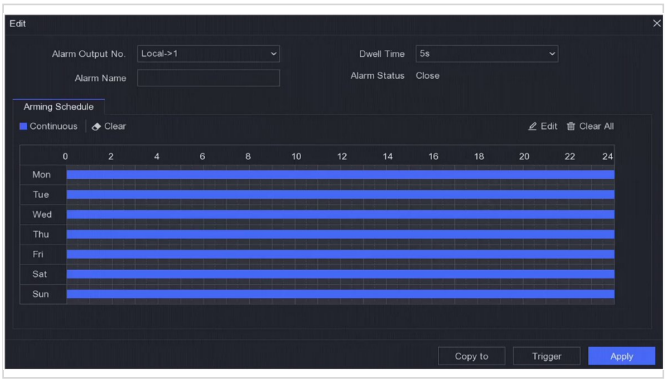

Fig. 6-18 Edit Alarm Output

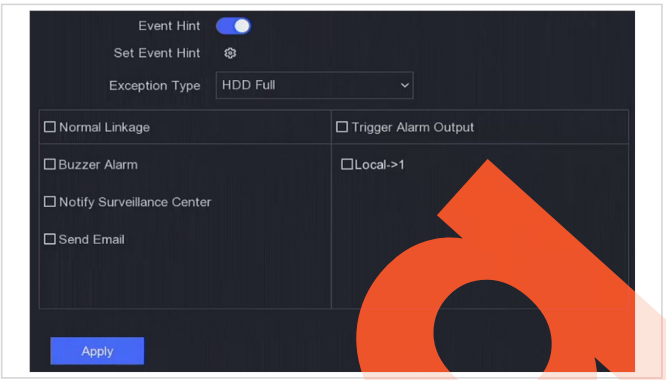

Fig. 6-19 Exceptions



Fig. 6-20 Face Capture

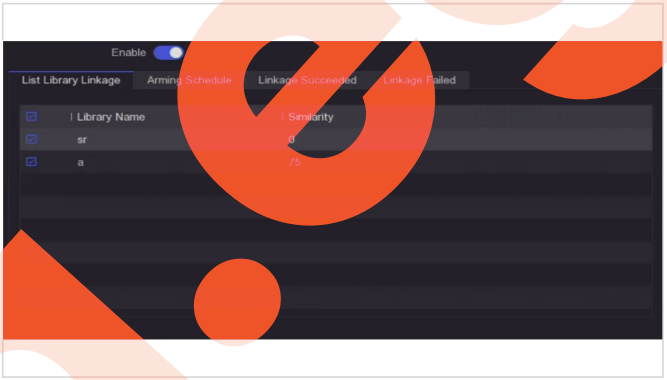

Fig. 6-21 Face Picture Comparison

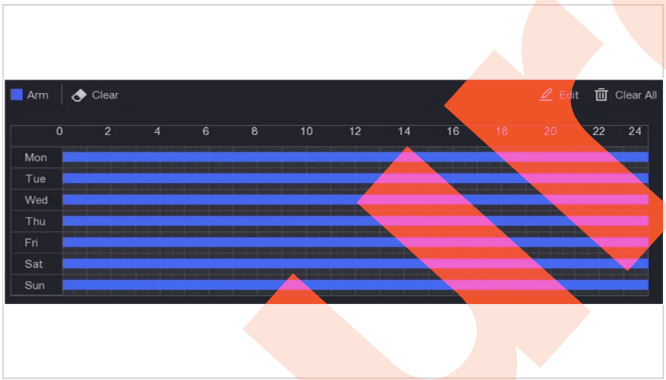

Fig. 6-22 Set Arming Schedule

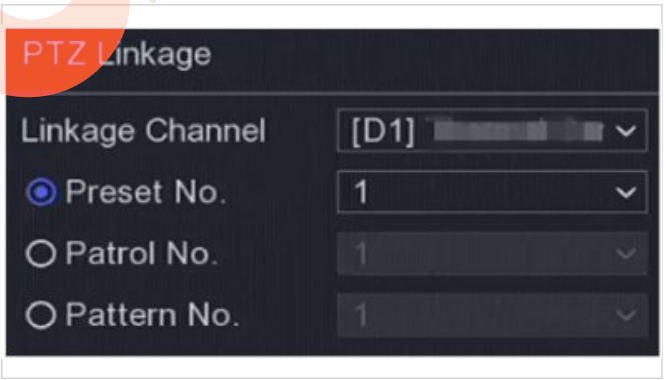

Fig. 6-23 PTZ Linkage

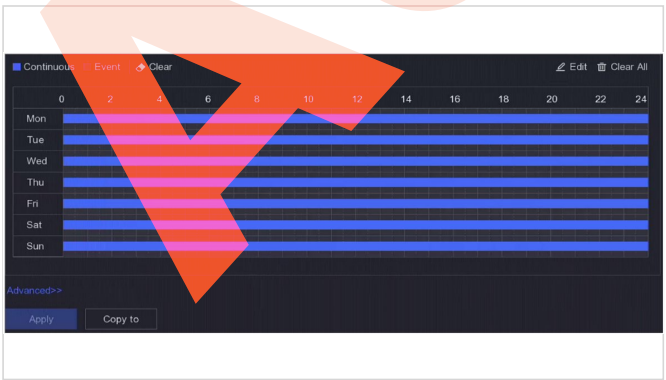

Fig. 6-24 Recording Schedule

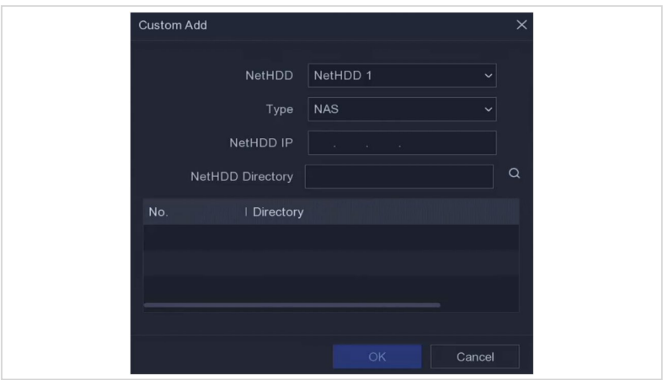

Fig. 6-25 Add NetHDD

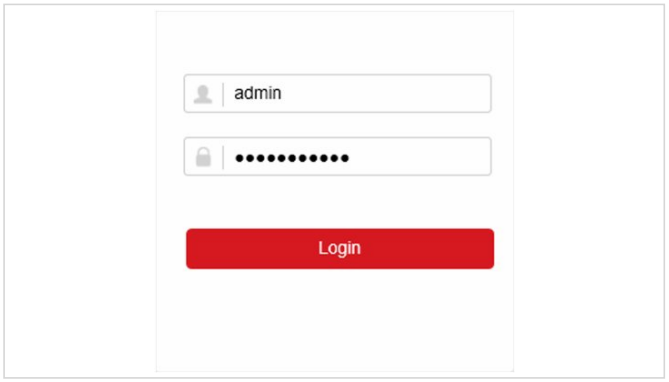

Fig. 9-1 Login



Fig. 9-2 Live View

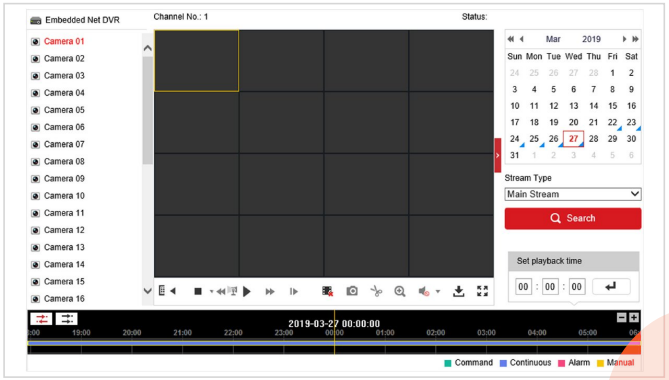

Fig. 9-3 Playback

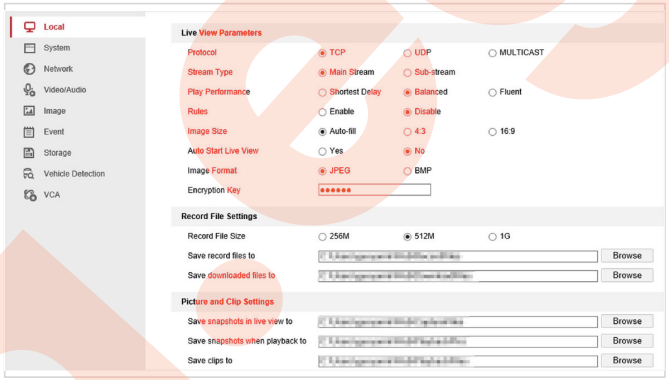

Fig. 9-4 Configuration

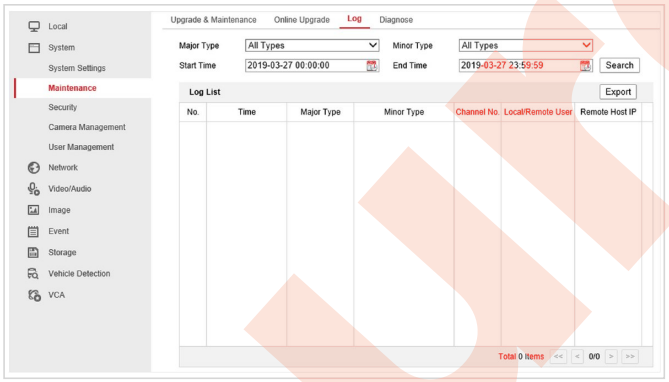

Fig. 9-5 Log