

Phoenix-32HP

32 Channel 1.5U H.265 Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264
- Up to 8MP(4K) resolution preview & playback
- Up to 32 channel IP camera inputs, 16 port PoE
- Up to 2ch@4K/8ch@1080P decoding
- Max 200Mbps Incoming Bandwidth
- HDMI/VGA simultaneous video output
- Support 4 SATA HDD up to 6TB, 2USB (2.0,3.0)

System Overview

Clearview's newest generation Phoenix-32HP provides excellent performance at an affordable price. For applications where image details are highly required, it delivers the capability of 4K resolution processing. This 32 channel NVR features an 16 port built in PoE and new Smart H.265+ decoding technology, saving up to 50% HDD and storage space compared to traditional H.264.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with many different IP cameras.

Functions

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Flexible Recording

The AVR offers a variety of configurable recording options and schedule that saves HDD space and active monitoring time. The recorder monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The recorder can also be programmed to record on a schedule or at different intervals. The recording options and schedules can be set for each individual camera or copied to all cameras..

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

4K resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image detail. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

Technical Specification

System

Main Processor	Quad-core embedded processor
Operating System	Embedded LINUX

Video

IP Video Input	32 channel
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Audio

Input	N/A
Output	N/A
Two-way Talk	1 channel Input, 1 channel Output, RCA

Display

Interface	1 HDMI ,1 VGA
Resolution	HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720
Decoding Capacity	2ch@4K 30fps, 8ch@1080P 30fps
Display Split	1/4/8/9/16/25/36
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Recording

Video/Audio Compression	Smart H.265+/H.265/Smart H.264+/H.264
Image Resolution	8MP/6MP/5MP/4MP/3MP/1080P/ 720P/ D1&etc.
Record Rate	200Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec

Video Detection & Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank
Alarm Input	16 Channel
Relay Output	4 Channel

Playback & Backup

Sync Playback	1/4/9/16
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
Backup Mode	USB Device/Network

Network

Ethernet	1 RJ-45 port (10/100/1000Mbps)
PoE	16 ports (IEEE802.3at/af)
Network Functions	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search, P2P
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone
Interoperability	ONVIF 2.4, SDK, CGI

Storage

Internal HDD	4 SATA Port, up to 6TB capacity
External HDD	N/A

Auxiliary Interface

USB	2 ports(1 USB2.0, 1 USB3.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control

General

Power Supply	AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	NVR: < 13.7W(without HDD) PoE: Max 25.5w for single port, 150w in total
Working Environment	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Dimensions (W×D×H)	1.5U, 440mm×411.1mm×76mm (17.3" x 16.2" x 3.0")
Net Weight	4.7kg (10.4lb) (without HDD)
Gross Weight	7.5kg(16.5 lb)(without HDD)

Certifications

Certifications	EN55032, EN55024, EN50130-4, EN60950-1 Part 15 Subpart B, ANSI C63.4-2014 UL60950-1
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Dimensions (mm/in)

