

# NE16P2P12-EP

## 16CH 4K NVR with 16POE



### System Overview

This is a 16 channel IP Network Video Recorder (NVR) with 16 ports of standard PoE and 8 of those supporting ePoE. This unit is capable of recording resolutions as high as 12MP and still as low as 1MP. With ANR, it will trigger storage of video data to an IP camera's SD card when there is a network loss plus automatically download the video once the network connection is renewed. The NVR has IVS or Intelligent Video System capabilities that allow for triggers based on a wide range of Smart features including Tripwire, Intrusion Detection, Missing and Abandoned Object Detection, Face Detection and even People Counting capabilities.

### Features

#### Smart H.265+

Smart H.265+ technology is a collection of intelligent encoding algorithms based on H.265. To meet the characteristics of video surveillance, Smart H.265+ adopts some key video encoding techniques can be flexibly added/deleted or combined according to different applications and products. Smart H.265+ codec can effectively enhance video encoding efficiency according to the characteristics of different surveillance environments; furthermore, it can greatly reduce transmission bit rate, storage capacity to improve the overall system.

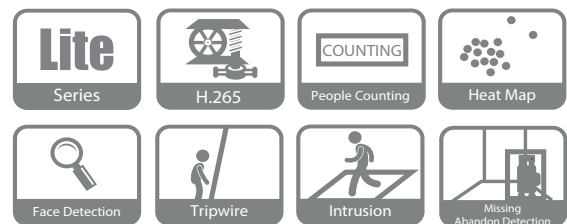
#### ePoE Technology

The ePoE technology adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. It supports PoE and PoC power supply technology which has greatly simplified construction and wiring. ePoE technology offers a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

#### Smart Fan

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically adjusts fan speed according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Max 320Mbps Incoming Bandwidth
- Up to 12MP Resolution for Preview and Playback
- HDMI/VGA simultaneous video output
- 1-8 PoE Ports Support 800m ePoE & EoC



#### Fisheye Dewarping

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The NVR offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

#### ANPR

Automatic Number Plate Recognition available for convenient entrance/exit management. Support license plate recognition, black/white list import/export, add/delete B/W list number, search result from recorded video.

#### Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search algorithm.

#### Automatic Network Replenishment (ANR) Technology

NVRs with the ANR function can automatically store video data on the IP camera storage card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

## Technical Specification

### System

Main Processor	Quad-core embedded processor
Operating System	Embedded LINUX

### Audio and Video

IP Camera Input	16/32 Channel
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 , 1024 × 768 VGA: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)
Multi-screen Display	16CH: 1/4/8/9/16 32CH: 1/4/8/9/16/25/36
OSD	Camera title, Time, Camera lock, Motion detection, Recording

### Recording

Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule (Regular, MD(Motion Detection) , Alarm, IVS), Stop
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

### Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering
Alarm input	4 Channel
Relay Output	2 Channel

### Playback and Backup

Sync Playback	1/4/9/16
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network

### Third-party Support

Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more
---------------------	---

### Network

Interface	1 RJ-45 Ports (10/100/1000Mbps)
PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4IP
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, SDK, CGI

### Storage

Internal HDD	2 SATA III Ports, Up to 10 TB capacity for each HDD
eSATA	N/A

### Auxiliary Interface

USB	2 USB Ports (1 Rear USB 3.0 , 1 Front USB 2.0 )
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ control

### Electrical

Power Supply	Single, AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	NVR: <15.2W (Without HDD) PoE: Max 25.5W for single port 130W total rated power, 80% control for protection
Fan	Smart fan, automatically adjust running speed

### Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH

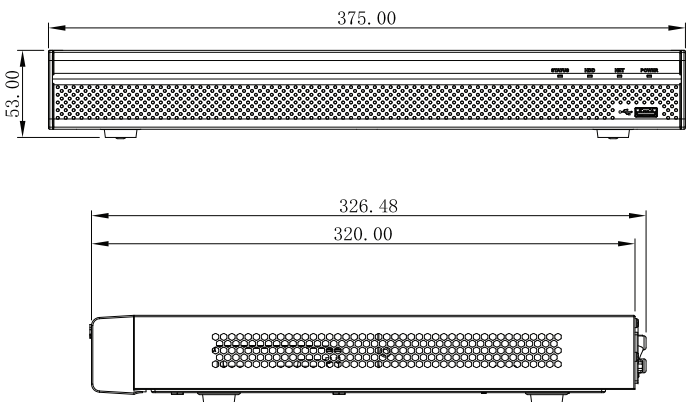
### Construction

Dimensions	1U, 375mm x 326.5mm x 53mm ; (14.8" x 12.9" x 2.1")
Net Weight	2.7kg (6.0 lb) (without HDD)
Gross Weight	4kg (8.8 lb) (without HDD)

### Certifications

CE	EN55032, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL 60950-1

Dimensions (mm)



Rear Panel

