NE64U8N12-H
64 Channel 4K Hot Swap NVR

· Intel Processor
· Max 64 IP Camera Inputs
· Max 384Mbps Incoming Bandwidth
· Up to 12MP Resolution for Preview and Playback
· Supports RAID 0/1/5/10
· Smart Tracking and Intelligent Video

System Overview
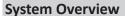
This is a 64 Channel 4K High Definition Network Video Recorder, that can record up to 64 ONVIF IP Megapixel Cameras at the same time up to 12MP each. The hard drives in this unit are completely Hot Swappable meaning that when you want to swap it out, there is no need to shut down your NVR. You can install up to 8 Hard Drives anywhere from 1TB to 8TB. From this NVR you can trigger a siren, a strobe, a PTZ etc based on motion events. You can even use this device to unlock doors, open garages, turn on lights and more. This device comes equipped with 16 Alarm Inputs and 8 Relay Outputs. You can connect an eSATA drive and backup to that. Or you can connect an external hard drive, a flash drive or a DVD Burner to one of the 4 USB ports.

intel | H.265 | Smart Tracking | Heat Map | Face Detection
Tripwire | Intrusion | People Counting | Missing/ Abandon Detection

Features

RAID 0/1/5/10
Offering a balance between storage performance, storage capacity, and data integrity, this NVR features Fruitfull RAID 0/1/5/10 for faster and safer recording.

Fisheye Dewarping
This NVR features multiple fisheye dewarping modes to make viewing video easy whether its live or during playback.

4K Resolution
The NVR supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

Intelligent Video System (IVS)
IVS system provides advanced, accurate video analytic for both IP and analog cameras. The IVS engine can track, classify and analyze the behavior of individual or group of objects over long distance to greatly improve parameter security and monitoring efficiency.

Heat Map
The NVR's Heat Map option highlights the areas with the highest concentration of people. This information can then be exported into a customized report to assist in business or forensic analysis.

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.

Smart Tracking
The Smart Tracking function is an innovative technology for PTZ dome cameras, which can enhance the effectiveness of the video surveillance system. In surveillance scenes where the occasional presence of people or vehicles require special attention (e.g., bank vaults, hotel corridors, parking garages, etc.), smart tracking can be used to detect moving objects and follow their movements until they're out of view.

ANR (Automatic Network Replenishment 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.

Onvif

Technical Specification

System

Main Processor	Intel Quad-core Processor
Operating System	Embedded LINUX

Audio and Video

IP Camera Input	64 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Display

Interface	2 HDMI (up to 3840 x 2160 , Different Source), 1 VGA
Resolution	3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Recording

Compression	H.265/H.264/MJPEG
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P etc.
Record Rate	384Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule (Regular, MD (Motion Detection), Alarm, IVS), Holiday, 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, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering
Alarm input	16 Channel, Low Level Effective, Green Terminal Interface
Relay Output	8 Channel, NO/NC Programmable, Green Terminal Interface
Tracking Trigger Event	Zoom, Tracking, Recording, Preset, Snapshot, Alarm, etc.

Playback and Backup

Playback	128 Mbps in Raid 5 Mode; 64 Mbps in single HDD Mode
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, Repeat, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network/eSATA Device

Third-party Support

Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more

Network

Interface	2 RJ-45 Ports (10/100/1000Mbps)
Ethernet Port	2 Ethernet Ports Joint Working or 2 Independent 1000Mbps Ethernet Ports
PoE	N/A
Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.)
Optical Fiber Interface	N/A
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, CGI Conformant

Storage

Internal HDD	8 SATA III Ports, Up to 8 TB capacity for each HDD
HDD Mode	Single, Raid 0/1/5/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)
SAS	N/A

Auxiliary Interface

Front Cover	Support Hot-swap
USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control

Electrical

Power Supply	AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	<20W (Without HDD)

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	2U, 444mm x 457.08mm x 95mm (17.5" x 18" x 3.7")
Net Weight	9kg (19.8 lb) (without HDD)
Gross Weight	10.5kg (23.1 lb)
Installation	Rack-mounted

Certifications

CE	EN55022, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL 60950-1 and CAN/CSA C22.2 No.60950-1

Dimensions (mm)

486

444

89

95

457.08