

NVR-FX08POE-1U4K1

8 Channel 1U 8PoE 4K & H.265 Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264
- Up to 8MP Resolution for Preview and Playback
- Supports IVS, iMD by camera
- Up to 2ch@4K/8ch@1080P decoding
- HDMI/VGA simultaneous video output
- Supports up to 2 8TB HDDs, 8 PoE ports
- Rack-mountable

System Overview

IC Realtime's NVR-FX08POE-1U4K1 is a compact, rack mountable, 8 channel NVR with an 8 port built-in PoE. This NVR supports both H.264 and H.265 encoding as well as 4K HDMI output. It is capable of up to 8 cameras at 1080P or 2 cameras at 4K resolution. Up to 2 8TB HDDs can be installed for maximum storage. The NVR also supports IVS and iMD equipped IC Realtime cameras. It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with numerous third-party devices making it the perfect solution for surveillance systems that work independently of video management system (VMS).

Made in South Korea and conforms to the Trade Agreements Act (TAA).

IVS (Intelligent Video System) by camera

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR is also capable of recording business analysis data – Audio Detect, People Counting and Heat Map – from IP cameras with built-in Intelligent Business Analytics.

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 details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

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.

iMD (Intelligent Motion Detect) by camera

This is an upgraded version of motion detection currently known as Intelligent Motion Detection (iMD). The upgraded Plus version greatly improves alarm accuracy by pre-loading a deep learning algorithm that recognizes people and vehicles. Motion detection alerts containing a human and/or vehicle intrusion event are now possible with up to 95% accuracy. Eliminate false alarms, save time and keep stress levels low knowing you're protected.

Technical Specification

System

| | |
|------------------|-------------------------------------|
| Main Processor | Industrial-grade embedded processor |
| Operating System | Embedded LINUX |

Video

| | |
|-------------------------|--|
| Max IP Channels | 8 Channel |
| Network Bandwidth | 128 Mbps for access, 128 Mbps for storage and 64 Mbps for forwarding |
| Third Party IPC Support | ONVIF, RTSP |

Audio

| | |
|-------------------|--|
| Two-way Talk | 1 Channel Input, 1 Channel Output, RCA |
| Audio Compression | G.711A/G.711U/PCM/G726 |

Display

| | |
|-------------------|---|
| Interface | 1 HDMI, 1 VGA |
| Resolution | HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 |
| Display Split | 1/4/9 |
| Decoding Capacity | 2ch-4K@30fps, 8ch-1080P@30fps |

Intelligence

| | |
|---------------------------------|--|
| IVS | Heat Map, Tripwire and Intrusion, Missing, and Abandon object (by camera) |
| Advanced IVS | Perimeter Protection (by camera), People Counting (Line crossing, dual lens support) |
| Intelligent Motion Detect (iMD) | Supported (by camera) |
| Other | Audio Detection (by camera) |

Recording

| | |
|-------------------|--|
| Video Compression | Smart H.265+/H.265/Smart H.264+/H.264 |
| Image Resolution | 8MP/ 5MP/ 4MP /3MP /1080P /720P /D1 /CIF |
| Record Mode | Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording |

Alarm

| | |
|---------------|--|
| General Alarm | Motion detection, privacy masking, video loss, IPC alarm |
| Anomaly Alarm | Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly |
| Alarm Linkage | Video recording, snapshot, log, preset point, tour |
| Alarm Input | 4 Channel |
| Alarm Output | 2 Channel |

Playback & Backup

| | |
|--------------------|--|
| Sync Playback | 1/4/8 |
| Playback Functions | 1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off |
| Backup Mode | USB Device/Network |

Network

| | |
|-------------------|--|
| Ethernet | 1x RJ-45 Ports (10/100/1000Mbps) |
| PoE | 8x RJ-45 ports with PoE power supply (10/100 Mbps) |
| Network Functions | HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS, FTP, P2P |
| Web Access | Chrome, IE9 or above, Firefox |
| Smart Phone | Android, iOS, iPhone |
| Interoperability | ONVIF (profile S), CGI, SDK |

Storage

| | |
|--------------|---|
| Internal HDD | 2 SATA III Ports, Up to 8TB capacity for each HDD |
| External HDD | N/A |

Auxiliary Interface

| | |
|-------|---|
| USB | 2 USB Ports (Front: 1 USB 2.0 , Back: 1 USB 2.0) |
| RS232 | N/A |
| RS485 | N/A |

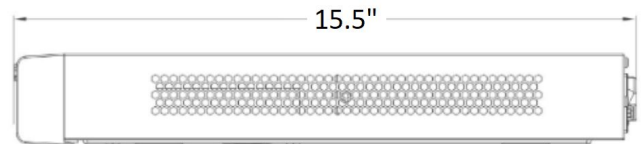
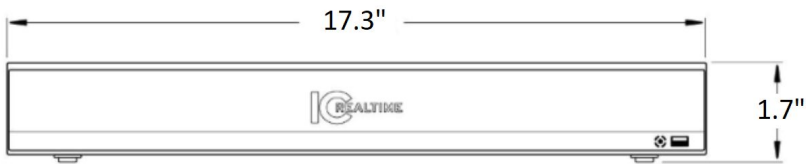
General

| | |
|---------------------|---|
| Power Supply | AC100V ~ 240V, 47Hz~63Hz, 3.5A |
| Power Consumption | Total output of NVR is ≤ 10W (without HDD) Total output power of PoE is 117W, the maximum output power of a single port is 25.5W |
| Working Environment | +14°F to +131°F (-10°C to +55°C) |
| Operating Humidity | 10%~90% |
| Dimensions (W×D×H) | 17.3" x 15.5" x 1.7" (439mm x 393mm x 43mm) |
| Weight | 5.53 lb (2.51kg) (without HDD) |
| Installation | Rack mountable |

Certifications

| | |
|----------------|------------------------|
| Certifications | FCC: Part 15 Subpart B |
|----------------|------------------------|

Dimensions (mm/in)



Panels

