

NVR-EG08POE-1U4K1

8 Channel 2U 8PoE Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264 support
- Supports 8 channels, max 8MP
- Built-in 8 port PoE
- 80Mbps Throughput
- Perimeter Protection and Intelligent Motion Detect (supported by camera)
- 1 HDD, up to 10TB capacity

System Overview

The NVR-EG08POE-1U4K1 is the newest entry in IC Realtime's Edge lineup. The NVR features a built-in 8 port PoE, H.265 support as well as a 10GB HDD storage support. In addition, the NVR is able to utilize Perimeter Protection and Intelligent Motion Detection when used with IPMX, IPFX and IPEL series IC Realtime AI enabled cameras. It is also ONVIF compliant, enabling interoperability with third party IP cameras.

*All Edge series products come with a 7 year limited warranty

Functions

Perimeter Protection by camera

IC Realtime's Perimeter Protection features significantly improve detection accuracy. The benefits of Perimeter Protection include up to a 90% reduction in false alarms. Other advantages include a decrease in pixel count requirement for object detection, which translates into more efficiency with less strain on the system. Perimeter Protection options let you customize tripwires based on the object type and allow intelligent automation within a limited area of access such as pedestrian or vehicle-only zones. The combination of advanced AI analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

Interoperability

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

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 Embedded processor
Operating System	Embedded LINUX, ICR 4.0

Video

Max IP Channels	8 Channels
Throughput	Access: 80 Mbps Storage: 80 Mbps Forward: 60 Mbps
Video Compression	Smart H.265; H.265; Smart H.264; H.264
Image Resolution	8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1

Audio

Interface	1 Channel Input, 1 Channel Output, RCA
Two-way Talk	Supported
Audio Compression	PCM; G711A; G711U; G726

Display

Interface	1HDMI, 1 VGA (Simultaneous Output)
Resolution	HDMI: 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720
Display Decode	1-channel 8MP@30 fps 2-channel 5MP@30 fps 3-channel 4MP@30 fps 6-channel 1080p@30 fps
Display Split	1/4/8/9
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Playback & Backup

Multi-channel Playback	1/4/8
Record Mode	Manual record; alarm record; motion detection record; schedule record
Playback Functions	1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (video clip/file); partially zoom in; audio on/off
Backup Mode	USB Device

Alarm

Alarm Input / Output	N/A
General Alarm	Motion detection; privacy masking; video loss; PIR alarm
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception
Intelligent Alarm	Perimeter Protection; Intelligent Motion Detect
Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour

Network

Ethernet	1 × RJ-45, 10/100 Mbps self-adaptive Ethernet port
PoE	8 Ports
Network Functions	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search (Supports IC Realtime IP cameras, DVR, NVS, etc.); P2P
Smart Phone	Android, iOS, iPhone
Interoperability	ONVIF (profile T/S/G); CGI; SDK
Browser Compatibility	Chrome, IE 9 or later, Edge, Safari, Firefox

Storage

Internal HDD	1 SATA III Ports, Up to 10 TB capacity for each HDD
--------------	---

Auxiliary Interface

USB	1 front USB 2.0 port, 1 rear USB 2.0 port
RS232	N/A
RS485	N/A

General

Power Supply	48/53 VDC, 2/1.8 A
	Total output of NVR is ≤ 10 W (without HDD)
Power Consumption	Total output power of PoE is 72 W, the maximum output power of asingle port is 25.5 W
Operating Humidity	10%~93% (RH)
Operating Conditions	14 °F to +131 °F (−10 °C to +55 °C)
Installation Type	Desktop
Dimensions (W×D×H)	10.24" × 9.16" × 1.87" (260 mm × 232.7 mm × 47.6 mm)
Weight	1.95lb (0.89kg) (without HDD)
Gross Weight	4.28lb (1.94kg) (without HDD)

Certifications

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

Intelligence

IVS

Capabilities(AI by Recorder)	N/A
Capabilities (AI by Camera)	Tripwire, Intrusion

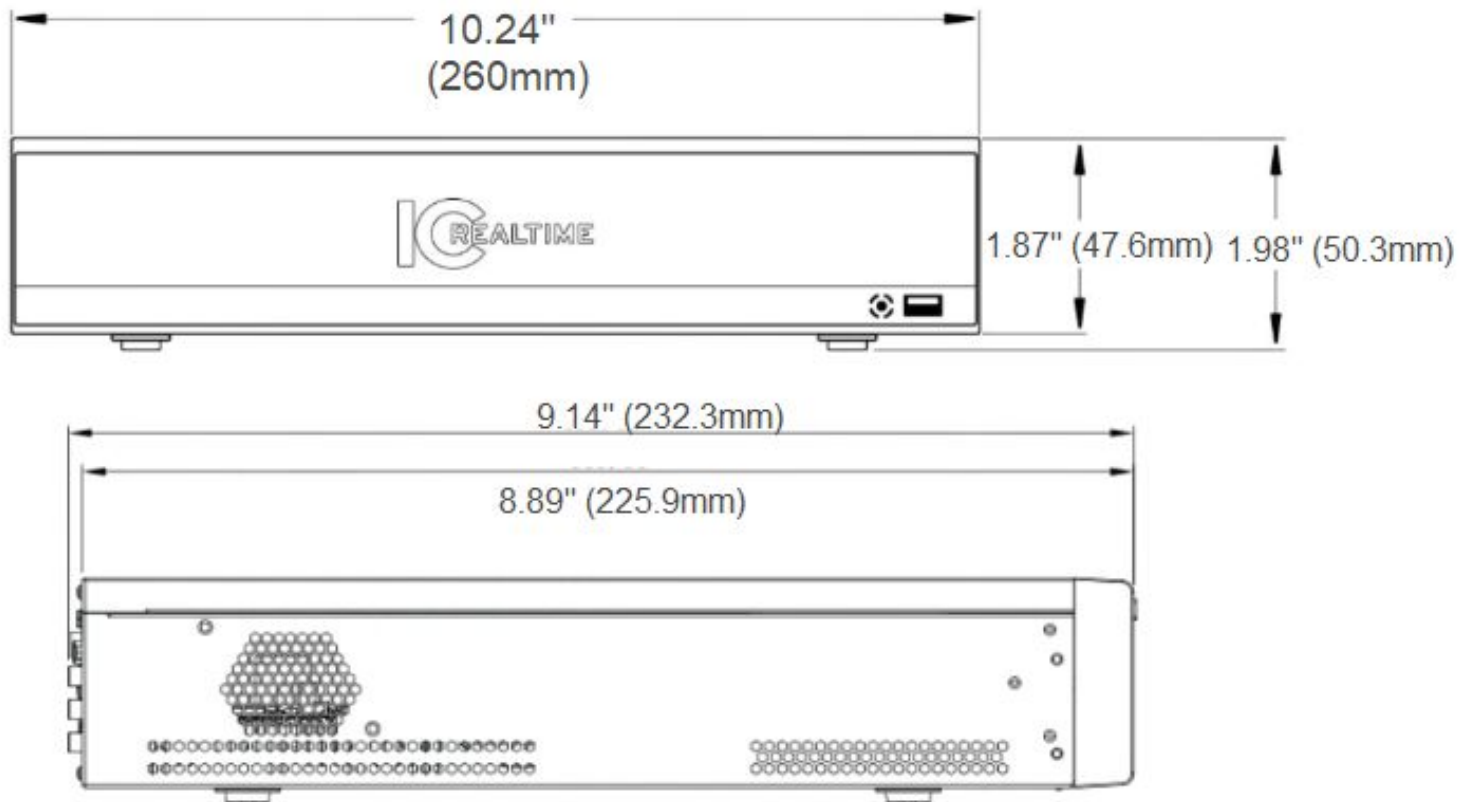
Perimeter Protection

Capabilities	Tripwire & intrusion; Recognition of human and vehicle
Performance (AI by Camera)	4 channels
AI Search	Search by target classification (Human, Vehicle)

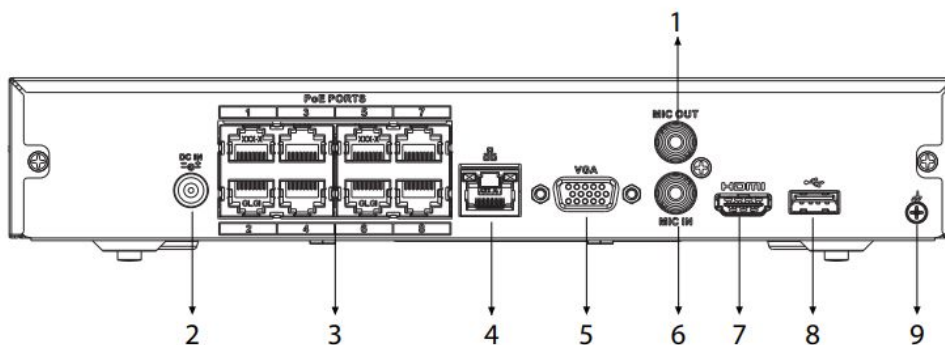
Intelligent Motion Detect (iMD)

Capabilities	Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change
Performance (AI by Camera)	4 channels
AI Search	Search by target classification (Human, Vehicle)

Dimensions (mm/in)



Panels



- | | |
|----------------------------|---------------------------|
| 1 AUDIO OUT, RCA Connector | 2 Power Input |
| 3 PoE Ports | 4 Network Port |
| 5 VGA Port | 6 AUDIO IN, RCA Connector |
| 7 HDMI Port | 8 USB Port |
| 9 Ground | |