NVR-EL128-4U12MP1
128 Channel 3U 4K Network Video Recorder

IC REALTIME

- Max 128 IP Camera Inputs

- Intel Quad Core Processor, 384Mbps Incoming Bandwidth

- IVS, Face Detect, People Counting and Heat Map

- Up to 12MP Resolution for Preview and Playback

- iSCSI and Mini SAS for Expanded Storage Space

- Four 10/100/1000 Network ports, Supports RAID 0/1/5/10

- Redundant Power, Built-in 7-inch HD LCD Monitor

System Overview

IC Realtime's NVR-EL128-4U12MP1 offers next generation unparalleled recording technology for IP video surveillance applications. This enterprise-level, rack mountable 128 channel NVR is equipped with a powerful Intel quad core processor that supports up to 12MP cameras as well as 384 Mbps total bandwidth and up to 4K resolution display support. Additionally, the NVR features a built-in 7 inch LCD monitor, four gigabit ethernet ports, remote management and control, RAID 0/1/5/10 support, 160TB total hard drive storage, edge storage, and backup storage. This NVR is ideal for a wide range of applications where expansion flexibility, high reliability and centralized storage management is desired.

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

Functions

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.

IVS
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 advanced IVS – Facial Detection, People Counting, and Heat Map – from supported IP cameras.

Automatic Network Replenishment (ANR)
Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

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

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

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Technical Specification

System

Main Processor	Intel Quad-core Processor
Operating System	Embedded LINUX

Video

Max IP Channels	128 Channel

Audio

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
Display Split	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

Video/Audio Compression	H.265/ H.264/ MJPEG
Image Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P
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

Intelligence

IVS	Heat Map, Tripwire and Intrusion, Missing, and Abandon object
Advanced IVS	People Counting , Fisheye Dewarp

Video Detection & 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
Alarm Output	8 Channel, NO/NC Programmable, Green Terminal Interface
Tracking Trigger Event	Zoom, Tracking, Recording, Preset, Snapshot, Alarm, etc.

Playback & 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 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/eSATA Device

Third-party Support

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

Network

Interface	4 RJ-45 Ports (10/100/1000Mbps)
Ethernet Port	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports
Network Functions	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, IP Search
Optical Fiber Interface	2 Giga Optical Fiber Interface
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone
Interoperability	ONVIF 2.4, CGI Conformant

Storage

Internal HDD	16 SATA III Ports, Up to 10TB 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 support to confirm the compatible device)
SAS	1 Mini SAS Port, for Storage Expansion

Auxiliary Interface

Front Panel	Supports Hot-swap, 7-inch HD LCD screen supports (1920 × 1080 , 1280 × 1024, 1024 × 768)
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

General

Power Supply	AC100V ~ 240V, 50 ~ 60 Hz, Redundant
Power Consumption	<51W (Without HDD)
Working Environment	+14°F ~ +131°F (-10°C ~ +55°C), 86 ~ 106kpa
Dimensions (W×D×H)	19.1" x 20.9" x 5 .2" (3U, 485mm x 529.9mm x 133.2mm)
Installation	Rack-mounted
Weight	43.2 lb (19.6kg) (without HDD)
Gross Weight	63.9 lb (29kg)

Certifications

Certifications	FCC: Part 15 Subpart B

Dimensions (mm/in)

485
448
133.2

516.55
529.9