

HDVR-EL1616-2U4K1

16 Channel Penta-brid 4K 2U Digital Video Recorder



- H.265+/H.265 dual-stream video compression
- Supports HD-AVS/AHD/TVI/CVBS/IP video inputs
- Supports 32 (16+16) channels of IPC access, each channel up to 12MP input; Max 320Mbps incoming bandwidth
- Intelligent Video System all channel support Tripwire & Intrusion; First 4 channels support Object Abandoned & Missing
- Supports 4K on HDMI1, HDMI2 for spot output
- 8 SATA Ports, up to 10TB capacity for each disk

System Overview

IC Realtime's newest generation digital video recorder adopts HD-AVS technology, this technology is an over-coaxial-cable analog HD video transmission standard, allowing long-distance HD transmission at a lower cost to meet the requirements for a complex and large installation. It supports up to 16 channels of HD-AVS/CVBS inputs, or up to 32 channels IP camera total (with analog disabled), 36 local live-view channels, 16 playback channels and 4K output.

Designed as a low-cost, easy installation product, this AVR is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education. It is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.42.

HDAVS/AHD/TVI/CVBS Auto Detect

The AVR can auto-recognize the signal of a camera without any configuration needing to be done. It makes operations friendlier and more convenient.

Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

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

Intelligent Video System (IVS)

With built-in intelligent video analytics, the AVR has the ability to detect and analyze moving objects for improved video surveillance. The AVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as Tripwire and intrusion analytics, allowing the camera to detect when a predetermined line has been crossed.

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.

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video

IP Video Input	16+16 Channels, each channel up to 12MP
Analog Video Input	16
AVS Resolution	4K, 4MP, 1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
AHD Resolution	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
TVI Resolution	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
CVBS Standard	PAL/NTSC

Audio

Input	16 channel, BNC
Output	1 channel, BNC
Two-way Talk	1 Mic In, 1 Mic Out, BNC

Display

Interface	2 HDMI(HDMI1 up to 4K), 1 VGA, 1 TV
Resolution	HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 /VGA: 1920×1080, 1280×1024, 1280×720
Multi Screen	Main+ Extra screen (Only IP cams from channels 1-16 are supported on extra screen)
Display Split	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36
Privacy Masking	4 rectangular zones (each camera)
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Intelligence

IVS	Face Detect, People Counting, Tripwire & Intrusion Channels 1-4 support Object Abandoned & Missing
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Recording

Video/Audio Compression	H.265+/H.265/H.264+/H.264
Image Resolution	4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF
Record Rate	Main stream: 4K(1~7fps); 6MP(1~10fps); 5MP(1~12fps); 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/CIF(1~25/30fps) Sub stream:960H(1~15fps); D1/CIF(1~25/30fps)
Bit Rate	32Kbps ~ 8192Kbps Per Channel
Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

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, Tampering and Diagnosis
Alarm Input	16 channel
Relay Output	6 channel

Playback & Backup

Sync Playback	1/4/9/16
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

Network

Ethernet	2 RJ-45 ports (1000M)
Network Functions	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search (Supports IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone

Storage

Internal HDD	8 SATA Ports, up to 10TB capacity for each disk
eSATA	1 Port

Auxiliary Interface

USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
RS232	1 port, For PC communication & Keyboard
RS485	1 Port, for PTZ Control
Loop Out	16 Channel, BNC, support HDCVI/AHD/TVI/CVBS
RS422	1 Port, for PTZ Control

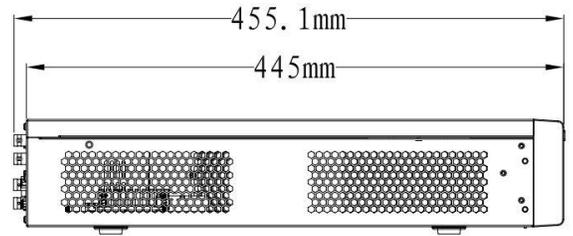
General

Power Supply	AC100V-240V,50/60Hz
Power Consumption	<35W (Without HDD)
Working Environment	+14°F ~ +131°F (-10°C ~ +55°C), 0~ 90% RH
Dimensions (W×D×H)	2U, 17.3"×17.9"×3.7" (440mm×455mm×95mm)
Weight	15.2lb (6.9kg)
Installation	Desktop installation/ Rack-mountable

Certifications

Certifications	FCC: Part 15 Subpart B UL: UL 60950-1
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Dimensions (mm/in)



Panels

