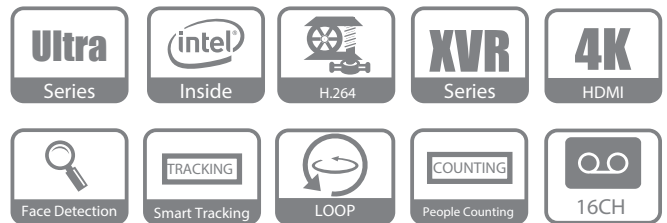


PENDVR-EL16-4MS

16 Channel Pentabrid 4MP 2U DVR



- Embedded processor
- Smart H.264 dual-stream video compression
- Support HDCVI/AHD/CVBS/TVI/IP video inputs
- Max 64 channels IP camera inputs, each channel up to 12MP
- Max 256Mbps Incoming Bandwidth, 384Mbps Forwarding Bandwidth
- Smart Search and Intelligent Video System
- Support HDCVI/CVBS Loop Out



System Overview

Throughout the years, HDCVI technology has gained in popularity and become a preferred standard for video surveillance, and has never stopped evolving. From 2MP to 4MP, and now HDCVI has moved into the 4K era. It presents a much clearer and vivid world. As the perfect solution to upgrade existing video surveillance systems, these DVRs support penta-brid access technology including HDCVI, AHD, TVI, CVBS and IP to effortlessly integrate with popular industry formats, offering an affordable solution loaded with flexible options. Designed as a fully compatible product, these DVRs are able to provide the end user the simplicity of analog system, namely lower system cost, simple installation and use of existing cable. It is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education.

Function

Loop Out

The loop out function allows you to connect an individual camera to a monitor thereby providing an independent video feed. This lets you monitor individual areas or show people they are being watched, without showing your complete security system.

HDCVI/TVI/AHD/CVBS Full Compatibility

Offers compatibility with all of the relevant technologies including HDCVI, TVI, AHD and CVBS signals.

Smart tracking

Smart tracking can track people or objects automatically with the linkage between stationary cameras and PTZ cameras.

Spot Output and Video Matrix

Spot out allows the operator to view one special monitor assigned to a selected camera or video inputs from higher security areas. Video matrix is for use with TV output.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the DVR has the ability to detect and analyze moving objects for improved video surveillance. The DVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Face Detection

It is a type of technology being used in a variety of applications that search for or identify individuals.

People Counting

People counting can show the flow of people coming and going and export that information in daily/monthly report

Smart Search

This function helps you get more motion detection video during a short time by drawing a region during playback. It is very useful when an emergency occurs.

Fisheye Dewarp

The function of fisheye dewarping can be utilized with HDCVI & IP fisheye cameras. This series supports 4MP HDCVI fisheye camera access, including preview, recording and dewarping.

PENDVR-EL16-4MS

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Display

Interface	2 HDMI(HDMI1 up to 4K), 1 VGA, 1 TV
Resolution	3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720, 1024×768
Multi-screen Display	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

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, Tampering and Diagnosis
Alarm input	16
Relay Output	6 channel

Playback and Backup

Playback	1/4/9/16
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

Storage

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

Auxiliary Interface

USB	4 USB Ports (2USB 2.0 , 2 USB 3.0)
RS232	1 Port, for PC communication & Keyboard
RS422	1 Port, for PTZ Control
RS485	1 Port, for PTZ Control
LOOP	HDCVI/CVBS 16 BNC

Audio and Video

HDCVI Camera Input	16 Channel
IP Camera Input	up to 64 Channel, each channel up to 12MP
Audio In/Out	16 Channel input, 1 Channel output, BNC 1
Two-way Talk	MIC IN, 1 MIC OUT, BNC(independent)

Recording

Compression	H.264+/H.264
Resolution	4K, 4MP, 1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
Record Rate	Main stream: 1st and 9th channel 4K(1~12/15fps)/4MP (1~25/30fps), others 4MP(1~15fps); 1080P/720P/960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps) Sub steram:960H/D1/CIF/QCIF(1~25/30fps)
Bit Rate	1Kbps ~ 12288Kbps 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

Network

Interface	2 RJ-45 Port (1000M)
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.42, CGI Conformant

Electrical

Power Supply	AC 100~240V, 50/60HZ
Power Consumption	<40W (Without HDD)

Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH

Construction

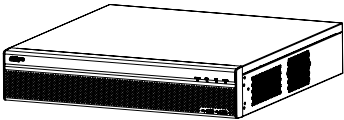
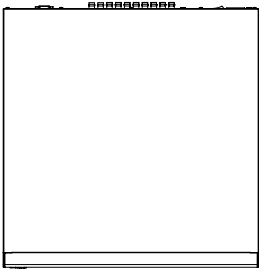
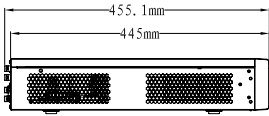
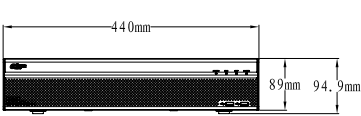
Dimensions	2U, 440mm×455mm×95mm (17.3"×17.9"×3.7")
Net Weight	8.24 kg (without HDD)
Gross Weight	9.48 kg (without HDD)
Installation	Desktop installation/Rack installation

Certifications

Certifications	FCC: 47 CFR PART 15 SUBPART B, 2015
	CE: EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
	UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07

PENDVR-EL16-4MS

Dimensions (mm)



Rear Panel

