PE16E2N2
16 Channel 1U DVR

· H.265+/H.265 dual-stream video compression
· Supports HDCVI/AHD/TVI/CVBS/IP video inputs
· Max 24 channels IP camera inputs, each channel up to 6MP; Max 96Mbps Incoming Bandwidth
· Smart Search and Intelligent Video System

System Overview

This DVR can work with HD-CVI, HD-TVI and AHD cameras up to 5 megapixels and IP cameras up to 6 megapixels. Although this recorder can work with higher 4 to 5MP resolution HD cameras, recording is at a maximum 1080p resolution. Its' true recording capabilities are 5M-N at 10fps on the first two channels, and 4M-N/1080P at 15fps or 1080N with 1MP, and 960H at 30fps on the remaining channels. Since there are four different coaxial based camera technologies that are supported, the unit has an auto detect feature that lets it recognize which type of camera is being used. In order to make this unit as quiet as possible, it has a smart fan which monitors the processor's temperature and only turns on when necessary.

Lite Series | H.265 | 16CH | 4K HDMI

Coax Audio | Smart Fan | Plug&Play | P2P

Features

Smart H.265+
Smart H.265+ technology is a collection of intelligent encoding algorithms based on H.265. To meet the characteristics of video surveillance, Smart H.265+ adopts some key video encoding techniques can be flexibly added/ deleted or combined according to different applications and products. Smart H.265+ codec can effectively enhance video encoding efficiency according to the characteristics of different surveillance environments; furthermore, it can greatly reduce transmission bit rate, storage capacity to improve the overall system.

HDCVI/AHD/TVI/CVBS Auto-detect
This unit can auto recognize the signal of the camera without having to change settings.
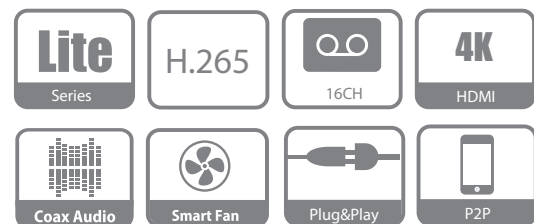
High Definition Camera Input
This DVR supports up to 5MP HDCVI camera and 6MP IP camera input.

Coaxial Audio/Upgrade/Alarm
This integrated design can reduce wiring troubles and makes it easier to run audio, upgrade your camera, or trigger alarms all via the coax cable.
*CVI ONLY

Smart Search
The smart search feature on a security recorder will allow you to skip over video that has motionless areas to get to the footage that you want to review. This is a great feature especially if you record in real time and have multiple cameras.

Long Distance Transmission
The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

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

Intelligent Video System (IVS)
IVS system provides advanced, accurate video analytic for both IP and analog cameras. The IVS engine can track, classify and analyze the behavior of individual or group of objects over long distance to greatly improve parameter security and monitoring efficiency.

Face Detection
Whether you wish to recognize, identify or verify a person, a camera with facial recognition software is an efficient solution. It can help you improve customer service and protect your assets by identifying important customers or potential perpetrators.

ONVIF

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video and Audio

Analog Camera Input	16 Channel, BNC
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps
TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps
CVBS Camera	PAL/NTSC
IP Camera Input	16+8 Channel, each channel up to 6MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA

Recording

Compression	H.265+/H.265/H.264+/H.264
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF
Record Rate	Main stream:the 1st & 2nd channels 5M-N(1~10fps), other channels 4M-N/1080P(1~15fps); 1080N/720P/960H/D1/CIF (1~25/30fps) Sub stream: D1/CIF(1~15fps)
Bit Rate	32Kbps ~ 6144Kbps Per Channel
Record Mode	Manual, Schedule (General, 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
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM
Audio Sample Rate	8KHz, 16 bit Per Channel
Audio Bit Rate	64Kbps Per Channel

Display

Interface	1 HDMI ,1 VGA
Resolution	HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Network

Interface	1 RJ-45 Port (1000M)
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, 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	N/A
Relay Output	N/A

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	2 SATA Ports, up to 8TB capacity
eSATA	N/A

Auxiliary Interface

USB	1 USB 2.0 , 1 USB 3.0
RS232	N/A
RS485	1 Port, for PTZ Control

Electrical

Power Supply	DC12V/4A
Power Consumption (without HDD)	<15W

Construction

Device Dimensions	1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1")
Device with PFH101 Rack Mount Tray	483mmx281mmx56mm (19.0"x11.1"x2.2")
Net Weight (without HDD)	1.6kg (3.5 lb)
Gross Weight	3.0kg (6.6 lb)
Installation	Desktop installation

Environmental

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

Third-party Support

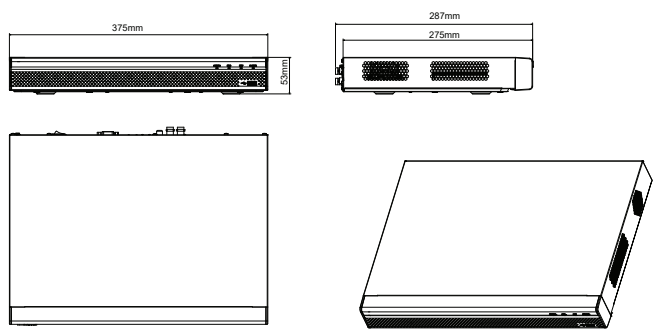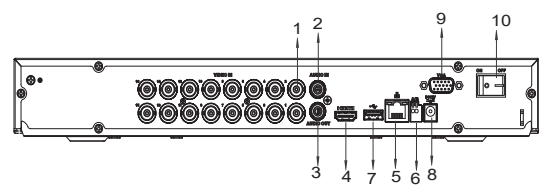|	
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more

Certifications

Certifications	FCC: Part 15 Subpart B
	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024
	UL: UL 60950-1

Dimensions (mm)

375mm

287mm

275mm

53mm

Rear Panel

1	VIDEO IN	6	RS485 Interface
2	AUDIO IN, RCA Connector	7	USB Interface
3	AUDIO OUT, RCA Connector	8	DC 12V Power Input
4	HDMI Interface	9	VGA Interface
5	Network Interface	10	Power Switch