DATASHEET

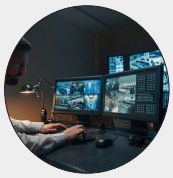
Concept Pro

4CH POE | 8MP | 4K Display Output | H.265 | x4/x1 Alarm I/O | WD Purple

VUHDIP-4-3

Concept Pro 4 Channel 8MP NVR with PoE

The VUHDIP-4-3 model is a four channel network video recorder designed to satisfy professional surveillance requirements. It has four channels of PoE/PoE+ built-in, supports the latest H.265 video compression codec for greater storage and bandwidth savings, and provides real-time recording performance at up to 8-megapixel resolutions across all channels. It has an expanded alarm input interface, and is compatible with Deep Learning Plus.



Professional Remote Monitoring

Provides 24 hour remote monitoring for clients and is available on all Concept Pro recorders with Alarm Receiving Stations using Immix Cloud and Sentinel platforms.

DEEP LEARNING VIDEO ANALYTICS

Deep Learning Video Analytics

This product supports the latest Deep Learning video analytics technology when compatible Concept Pro IP cameras are connected. Easily configure Deep Learning Motion Detection and advanced video analytics rules from the recorder user interface and begin reducing false alarms by up to 95% with the power of Deep Learning.

NDAA Compliant

NDAA Compliant

This product uses the latest in chipset technology from Taiwan and is developed in South Korea without the use of restricted components.

Enhanced Security

This product supports a suite of security-related features, including automatic password expiration, encryption, and more settings designed to ensure authorised users are accessing the device.

KEY FEATURES

- 4 PoE/PoE+ IP Camera Inputs
- H.265 & H.264 Video Codec Support
- Real-time 8MP Recording for all Channels
- Max. 3840x2160 4K UHD Display Output
- Up to 10TB Internal Hard Disk Capacity
- Smart Storage Compression
- x1/x1 Audio I/O with HDMI Audio Output
- x4/x1 Alarm I/O
- Compatible with Concept Pro Deep Learning Video Analytics & Deep Learning Plus
- WD Purple Surveillance Hard Disks Pre-installed

OTHER FEATURES

- NDAA-compliant
- Remote Monitoring via Concept Pro Viewer Mobile App
- Supported by i-PIMS license-free VMS
- Timeline, Thumbnail, Event, and Deep Learning Search Modes
- Instant Playback
- Integrated Virtual Alarm Support
- Mouse and remote included
- Total 86W PoE Capacity
- Fanless Design

COMPATIBLE WITH

HD-IP Professional System Camera Range

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SPECIFICATION

Video and Audio	
IP Video Inputs	x4
Video Signal	PAL/NTSC
Max. Resolution/Frame Rate	Max. 25/30FPS @ 3840x2160 (8MP 4K UHD) per channel
Video Compression Codec	H.265/H.264 (BP, MP, HP)
Incoming Bandwidth	Max. 37Mbps
Bit Rate Control	CBR/VBR/VBR+
Bit Rate per Channel	Stream 1: 1,000-8,000Kbps Stream 2: 600-2,000Kbps
Power over Ethernet (PoE) Inputs	x4
PoE Standard	PoE 802.3af/802.3at
PoE Output	Max. 25W per channel Max. 86W total
PTZ Cameras	Supported, Network/RS485 (Pan/Tilt/Zoom, Scan, Tour, Preset Add/Delete/Sync)
Audio Inputs	x1 (RCA) + x4 (IP Camera Audio Input)
Audio Outputs	x1 (RCA)/x1 (HDMI)
Two-way Audio	Supported
Audio Compression Codec	G.711μ-law
Recording	
Recording Resolution	8MP (3840x2160)/5MP/4MP/3MP/2MP/1MP/D1/CIF
Recording Rate	Max. 100/120FPS @ 3840x2160 (8MP 4K UHD)
Recording Modes	Automatic/Manual Recording Profiles with Continuous, Motion, Deep Learning/Alarm, Panic Modes
Recording Scheduling	Hourly/Daily/Weekly
Pre-Event Recording	Yes, 0/1/2/3/4/5/10/15s
Post-Event Recording	Yes, 5/10/15/20/30/60/180s
Smart Storage Compression (SSC)	Supported
Display	
Main Display Outputs	HDMI x1, VGA x1
Display Resolution	3840x2160/2560x1440/1920x1080/1280x124/1280x720
Display Configuration	Auto/Manual
Dual Monitor Functionality	Main Display Mirroring
Display Decoding Rate	Max. 100/120FPS; Max. 30FPS@8MP
Split Screen Mode	1CH/4CH
Programmable Sequence	Supported, 1CH/4CH
Spot Monitor Output	BNC x1
Spot Monitor Mode	Customisable, 1CH/4CH Split Screen Modes
Search & Playback	
Search Modes	Calendar (Date/Time), Timeline, Thumbnail, Event, Text-in (POS), Deep Learning
Event Search Options	Alarm, Video, System, Network, Setup, Motion, Record, Storage, IPCAM, POS/ATM
Deep Learning Search Options	Event Type, Object/Keyword
Playback Decoding Rate	Max. 100/120FPS; Max. 30FPS@8MP
Split Screen Mode	1CH/4CH
Playback Speed	1x/2x/4x/8x/16x/32x/64x
Quick Playback	Yes, via Live Menu Timeline or Quick Menu
Archiving	
Archiving Devices	USB, FTP
Remote Archiving	Web, i-PIMS (PC), FTP, Concept Pro Viewer Mobile App
Archived Video Format	RAW/AVI
Archive File Size	Max. 20GB
Backup Encryption	MD5 with Built-in Verification Watermark
Snapshot	Live, Playback (JPEG)
Bookmarking	Supported
Reserved Data Management	Supported
Network	
Network Interface	x1 RJ45 10/100M Ethernet
Max. User Connections	x10
Transmission Rate	Max. 100/120FPS
Adaptive Network Streaming	Supported
Outgoing Bandwidth	Max. 72Mbps
IP Address Support	IPv4, IPv6
Dual SMTP E-mail Server	Supported
Remote Web Access	Internet Explorer: Live Video, Search, Playback, Setup Chrome, Firefox: Live JPEG, Setup
Mobile App	Concept Pro Viewer (iOS/Android)
PC Software	i-PIMS CMS
P2P Cloud Service	Yes, European Servers
DDNS Service	Yes, DVRLINK Included
Remote Monitoring	Immix, Monitorsoft Sentinel
Interoperability	ONVIF Profile S, HTTP/RTSP SDK
Supported Protocols	WS-Discovery, RTP, RTSP, RTCP, SMTP, NTP, HTTP, FTP, DDNS, DHCP, uPNP (Router Port Forwading), HTTPS, SSL

Event	
Alarm Inputs	x4 (NVR) + x4 (IP Camera)
Alarm Outputs	x1 (NVR Relay) + x4 (IP Camera)
Alarm Event Triggers	Alarm Recording, Alarm Output, PTZ Preset, E-mail/Mobile Push/FTP Event Notification, Video/OSD Pop-up, Buzzer
Basic Motion Detection	Supported (Depending on IP Camera Specification)
Deep Learning Motion Detection	Supported (Select Concept Pro IP Camera Models)
DL Motion Detection Objects	Human/Car/Bike
Motion Event Triggers	Motion Recording, Alarm Output, PTZ Preset, E-mail/Mobile Push/FTP Event Notification, Buzzer
System Event Types	Video Loss, Disk Overwrite Start, Disk Full, Disk Space x% Exhausted, HDD SMART, No Disk, Panic Record Start, Booting, Login Fail, PoE Fail, Trouble in Internet Connection, Fail in DDNS Update, IP Conflict
POS/ATM Events	Supported
Deep Learning Events	Concept Pro Deep Learning Plus & Deep Learning IP Cameras Supported
Deep Learning Objects	Human/Car/Bike
Deep Learning Rule Types	Forward/Reverse Line Crossing, Intrusion, Region Enter/Exit, Loitering, Stopping, Counter
Deep Learning Live Timeline	Supported, with Object Thumbnails & Instant Playback
Deep Learning Event Triggers	DL/Alarm Recording, Alarm Out, Preset, Buzzer, Video Popup, E-mail Notification, FTP Notification, Mobile App Push Message
Deep Learning Double Knock	Supported
E-mail Notification	Yes, Snapshot Optional
E-mail Notification Schedule	Yes, Max. 10 Schedule Profiles
Alarm Arm/Disarm Function	Supported
Storage	
Internal Hard Disk	SATA x1, Max. 10TB
Hard Disk Health Monitoring	Yes (SMART)
RAID Configuration	No, please see VUHDIPE model
Partial Data Deletion	Supported
External Storage Support	FTP (Backup)
Security	
Enhanced Security Rules	Supported, enabled by default
Covert Channels	Supported, configurable by user and group authority
Privacy Masking	Supported (Select Concept Pro IP Camera Models)
User Groups	Admin/Manager/User
Number of Users	Max. x10
Group Authority	Search, Archiving, System Setup, Record Setup, Event Action Control, Listen to Audio, Microphone, Remote Login, PTZ Control, Shutdown
Network Security	Unrequired network protocols off by default (SNMP, FTP, DDNS, P2P, etc.), RTSP encryption (SEED_128), HTTPS Digest, IP filter, Netstat, Ping test, IP conflict list, Live connected clients list with lockout, Auto Port Forwarding off by default
System Security	Required ADMIN password change, password recovery e-mail authentication, enhanced user ID/password on by default, direct user ID input on by default, audio transmission and recording off by default, auto logout, password expiration, system log, user authority, password check for search/backup, password check for disk management, Encrypted System Settings File Import/Export
Interface	
USB	x2 (Front)
RS-485	x1 (Pelco-D, Pelco-P, D-max, etc.)
Keyboard Controller	Supported (RS-485)
Remote Control	Included
RS-232	-
System	
Language	English, Spanish, German, French, Dutch, Italian, Korean, Chinese, Japanese, Polish
Max. UTP Transmission	90m
Firmware Upgrade	USB, Network
Operating System	Concept Pro User Interface, NDAA-compliant SoC
General	
Power Supply	DC48V/2A Power Adapter
Power Consumption	Max. 6W without HDD or cameras
Fan	-
Dimensions	Mini 1U, (W) 260mm x (D) 262.6mm x (H) 44mm
Rack Mount	-
Net Weight	1/55kg
Operating Conditions	0°C to +40°C, 10%-90% Humidity (NC)

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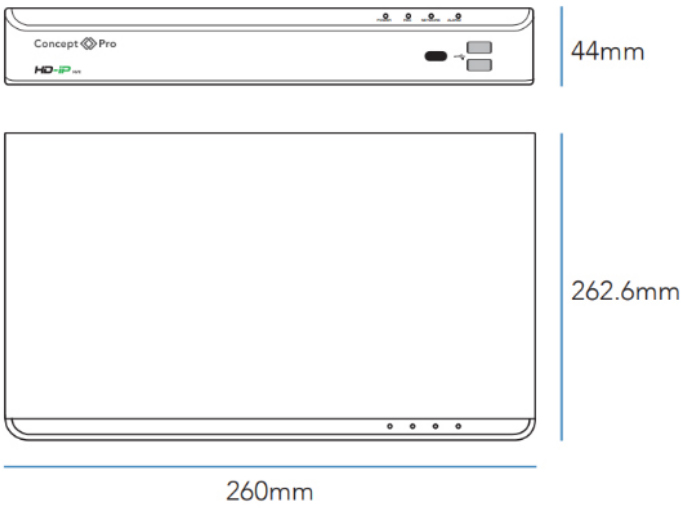
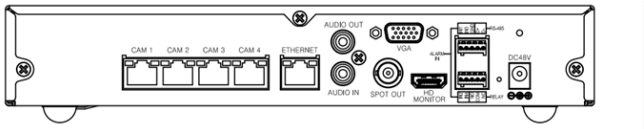
DIMENSIONS



REAR PANEL



ORDER CODES

VUHDIP-4-3/1000	**Concept Pro 4 Channel 8MP NVR 1TB**
VUHDIP-4-3/2000	**Concept Pro 4 Channel 8MP NVR 2TB**
VUHDIP-4-3/3000	**Concept Pro 4 Channel 8MP NVR 3TB**
VUHDIP-4-3/4000	**Concept Pro 4 Channel 8MP NVR 4TB**
VUHDIP-4-3/6000	**Concept Pro 4 Channel 8MP NVR 6TB**
VUHDIP-4-3/8000	**Concept Pro 4 Channel 8MP NVR 8TB**
VUHDIP-4-3/10000	**Concept Pro 4 Channel 8MP NVR 10TB**

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