CP-UVR-1601L1N-4KI3-V2

16Ch. 4K/5MP Digital Video Recorder

- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Support upto 8MP IP Camera
- Instastream/ H.265 dual-stream video compression
- Max 32 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth.
- Support 1 SATA HDD up to 16TB, 2 USB Ports
- 1 HDMI / 1 VGA simultaneous video output
- Up to 8 channels video stream (analog channel) Perimeter Protection.
- Up to 16 channels video stream (analog channel) SMD Plus.
- Up to 2 channels video stream (analog channel) human face recognition.
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS, KVMS Pro

16 Ch | Linux POWERED | H.265 COMPRESSION | HI-SPEED CERTIFIED USB | GUI | CMS

System Overview

This Series has gathered momentum across the globe for its outstanding performance and premium recording quality as it can be applied in any situation for IP video surveillance. This Series supports the input, recording and transmission functions. Along with that, this DVR also enjoys the help of a built-in deep learning module as this product adopts the video image that is structured on deep learning algorithms.

This DVR lets you achieve high-precision human face-recognition and efficient perimeter protection. This product has been crafted to pay attention to what matters the most through applying deep learning artificial intelligence, which makes it fasten the event response time and helps in making the video more actionable.

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Functions

Instastream

This camera has been designed with the latest and most efficient innovation among the standard video compression designs. Smart encoding algorithms developed by CP PLUS help in saving up to 70% more bandwidth than H.265 along with making it more beneficial for minimizing bandwidth and storage costs. It enhances video coding efficiency while providing high resolution and the rate of frame in the video using Intelligent Region Perception to detect motion in each frame.

4K Resolution

Created ideally for covering every inch of the space that is under surveillance, the 4K resolution technology lets you enjoy complete clarity in a magnified image. This technology has proven to be the most beneficial for image processing because it provides four times the better resolution of a standard HDTV 1080P Camera.

Addnl. IP cameras support

In some installations, customers have specific features and functions that are available in IP cameras only, such as two-way communication, edge storage, alarm I/O, etc. CP PLUS DVRs provide additional IP camera support to provide flexibility so that the desired solution features can be made accessible.

Face Recognition

This technology is just the most proficient element of the current video surveillance industry as the DVRs that have been integrated with the real-time face recognition technology accurately detects facial attributes in the video stream in real-time. The technology analyzes every facial attribute ranging from gender, age, expression to wearing glasses, mask, and even mustaches.

gCMOB/ iCMOB

Designed to allow users to access and control live streaming from CP PLUS IP Cameras, DVRs/ NVRs and Video Door Phones, the CP PLUS gCMOB/ iCMOB application offers a host of features such as Easy GUI, up to 16 live viewing split-ups; InstaOn cloud support; Playback; digital zoom ins; two-way talk, and more.

KVMS/ KVMS Pro

The KVMS/ KVMS Pro is a hybrid security management software that allows the management of various surveillance devices such as cameras, DVRs/ NVRs, encoders/ decoders, etc. It is released with the surveillance hardware and exclusively supports CP PLUS devices.

About CP PLUS

The brand that is on its way to lead the world when it comes to the security and surveillance industry, CP PLUS, keeps bombarding the market with the most reliable range of products that have been designed carefully and methodically to automate the whole surveillance and security process, no matter how big your premises are.

It was the initiative to help the public in the area where they are the most vulnerable and to empower the sense of safety in our hearts that had conceptualized CP PLUS. And embarking on its mission to make the world a safer and more secure place has taken the brand's journey to unprecedented levels even when compared to international competitors.
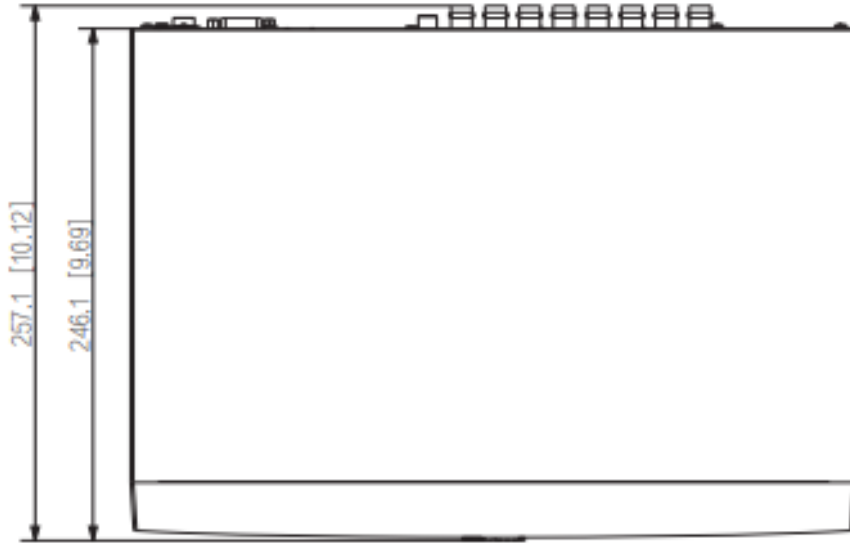
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Feature	Specification
Processor	Industrial-Grade Processor
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect
User Interface	Web; Local GUI
IP Camera Input	Up to 32 channels of IPC access 16 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled
Operating System	Embedded Linux
Camera Input	1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps.2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30fps
Two-way Talk	Support (share the same audio input with the first channel)
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable
Face Attributes	Gender; Age group; Glasses; Expressions; Face mask; Beard
Face Database Capacity	Up to 10 face databases with 20,000 face images in total. Name, Gender, Birthday, Address, Certificate type, Certificate No., Countries & Regions and state can be added to each face image
Video Compression	H.265, H.264
Video Frame Rate	Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps–25/30fps); Sub stream: 960H@(1fps–15fps); D1/CIF@(1 fps– 25/30fps)
Encode Strategy	AI Instastream/ Instastream
Stream Capability	Dual Stream

	Specification
Perimeter Performance AI by DVR	Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel
Face Recognition Performance AI by DVR	2 Channels
Face Detection Performance of AI by DVR	2 Channels (up to 12 face images/s each channel)
Bit Rate	32 kbps–6144 kbps
SMD Plus by DVR	16 channels: Secondary filtering for human and motor vehicle , Reducing false alarms caused by leaves, Rain and lighting condition change.
Audio Input	1-channel RCA ,16-channel BNC (Coaxial Audio)
Audio Output	1 channel RCA
Audio Compression	G.711a; G.711u; PCM
Audio Sample Rate	8 kHz, 16 bit
Hard Disk	1 SATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature.
Smart Phone	iPhone, iPad, Android Phone
General Alarm	Motion detection; Video loss; Tampering
Audio Bit Rate	64 kbps
Anomaly Alarm	No disk; Storage error; Disk full; Camera offline; IP conflict; MAC conflict
Intelligent Alarm	Face detection; Face recognition; Perimeter protection
Alarm Linkage	Record; Snapshot (panoramic); IPC external alarm output; Access controller; Voice prompt; Buzzer; log; Preset; Email
Recording Playback	1/4/9/16
Browser	Chrome, IE9 or later, Firefox
Backup Method	USB device and Network
Recording Mode	General, Motion detection; Intelligent; Alarm; POS
Playback Function	Instant playback, General playback, Event playback, Tag playback, Smart playback (face and motion detection)
Interface Ports	1 HDMI, 1 VGA, 1 RS485, 2 USB Ports((1 front USB 2.0 port, 1 rear USB 3.0 port)
Network Mode	Single-address mode

Feature	Specification
Ethernet	1 RJ-45 Port ((10/100/1000Mbps)
Protocols	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; Instaon Cloud, ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Power Supply	DC12V,3Amp
Power Consumption	<15W (Without HDD)
Operating Temperature	-10 ~+55°C
Operating Humidity	10%–90% (RH)
Dimensions	Mini 1U , 325 mm × 257.1 mm × 55.0 mm
Weight	1.5Kg

Dimensions (mm/inch)

Product casing and specifications are subject to change without prior notice