

# 4 Channel Penta-brid 5MP Mini 1U 1HDD Digital Video Recorder



## Construction

Dimensions	Mini 1U, 325.0 mm × 256.6 mm × 55.0 mm (12.80" × 10.10" × 2.17")
Net Weight (without HDD)	1.3 kg (2.87 lb)
Gross Weight	1.76 kg (3.88 lb)
Installation	Desktop installation

## Environmental

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

## Third-party Support

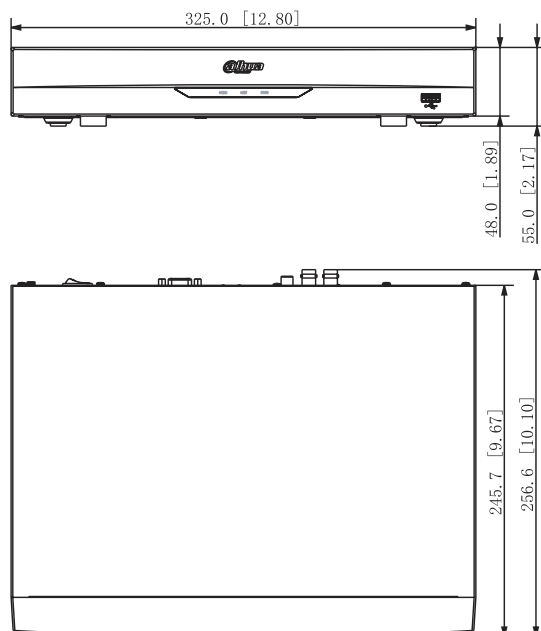
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
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## Certifications

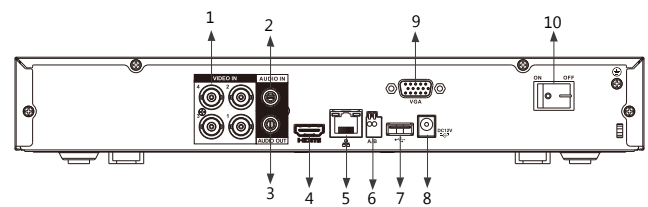
Certifications	FCC: Part 15 Subpart B
	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN 50130; EN 55024

- H.265+/H.265 dual-stream video compression
- Supports Full-channel AI-Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 8 channels IP camera inputs, each channel up to 8MP; Max 64 Mbps incoming bandwidth
- Up to 1 channel video stream ( analog channel ) Perimeter Protection
- Up to 4 channels video stream ( analog channel ) SMD Plus
- Up to 1 channel video stream (analog channel ) human face recognition
- IoT & POS functionalities

## Dimensions (mm[inch])



## Panels



- |                            |                      |
|----------------------------|----------------------|
| 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      |

## Technical Specification

### System

Main Processor	Embedded processor
Operating System	Embedded linux

### Perimeter Protection

Performance	1 channel, 10 IVS for each channel
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion
AI Search	Search by target classification (Human, Vehicle)

### Face Recognition

Performance	Max 8 face pictures/sec processing 1 channel video stream face recognition, only support analog camera
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image
Database Management	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 picture
Database Application	Each database can be applied to video channels independently
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.

### SMD Plus

Performance	4 channels
AI Search	Search by target classification (Human, Vehicle)

### Video and Audio

Analog Camera Input	4 channels, BNC
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080p@ 25/30 fps, 720p@ 50/60 fps, 720p@ 25/30 fps
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080p@ 25/30 fps, 720p@ 25/30 fps
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080p@ 25/30 fps, 720p@ 25/30 fps
CVBS Camera Input	PAL/NTSC
IP Camera Input	4+4 channels, each channel up to 8MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA

### Recording

Compression	AI Coding/H.265+/H.265/H.264+/H.264
Resolution	4K; 6MP; 5MP; 4MP; 3MP; 4M-N; 1080p; 720p; 960H; D1; CIF
Record Rate	Main stream: All channel 4K (1 fps~7 fps); 6MP (1 fps~10 fps); 5MP (1 fps~12 fps); 4MP/3MP (1 fps~15 fps); 4M-N/1080p/720p/960H/D1/CIF (1 fps~25/30 fps); Sub stream: 960H (1 fps~15 fps); D1/CIF (1 fps~25/30 fps)
Bit Rate	32 kbps~6144 kbps per channel
Record Mode	Manual; Schedule (General, Continuous); MD (Video detection: Motion Detection, Video Loss, Tampering); Alarm; Stop

Record Interval	1 min~60 min (default: 60 min), Pre-record: 1 s~30 s, Post-record: 10 s~300 s
Audio Compression	G.711A; G.711U; PCM
Audio Sample Rate	8 KHz, 16 bit per channel
Audio Bit Rate	64 kbps per channel

### Display

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

### Network

Interface	1 RJ-45 Port (100 MB)
Network Function	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 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
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	1 SATA port, up to 10 TB capacity
eSATA	N/A

### Auxiliary Interface

USB	2 USB ports (USB 2.0)
RS485	1 port, for PTZ control
RS232	N/A

### Electrical

Power Supply	DC 12V/2A
Power Consumption (Without HDD)	< 7W