

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

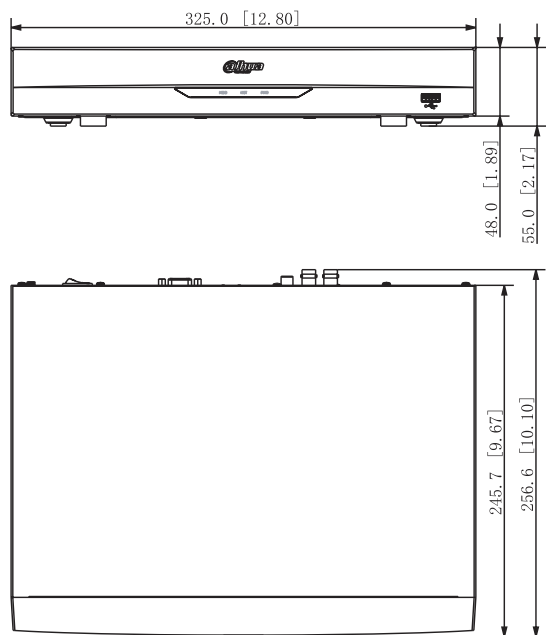
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
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Certifications

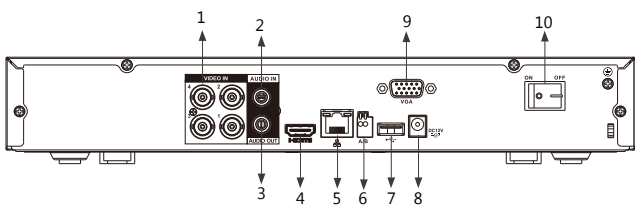
Certifications	FCC: Part 15 Subpart B
	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN 50130; EN 55024

- 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, cerificate No., countries®ions 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 steram: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		