HDVR-EL3200-2U5MP-AI2

32 Ch 5MP AVS, Analog, & IP 2U Standalone DVR





- H.265+/H.265 dual-stream video compression
- Supports up to 32 channels of HD-AVS/AHD/TVI/CVBS inputs up to 5MP
- Supports up to 32 channels of IPC access, each channel up to 8MP input
- Max 128Mbps Incoming Bandwidth
- IVS Perimeter Protection (8ch coax)
- Intelligent Motion Detect (16ch coax)
- Real-Time Face Recognition (2ch coax)

System Overview

IC Realtime's HDVR-EL3200-2U5MP-AI2 is a pentrabrid recorder that supports up to 32 channels of HD-AVS/AHD/TVI/ CVBS or up to 32 IP camera inputs (if all coax channels are disabled) up to 8MP resolution.

This HDVR also features a suite of AI features including: IVS Perimeter Protection, Intelligent Motion Detect (iMD) as well as Real-Time Face Recognition with database. It supports up to 80TB of HDD storage and is ONVIF 21.12 compliant, making it compatible with numerous third-party devices.

Functions

Perimeter Protection

IC Realtime's Perimeter Protection features significantly improve detection accuracy. The benefits of Perimeter Protection include up to a 90% reduction in false alarms. Other advantages include a decrease in pixel count requirement for object detection, which translates into more efficiency with less strain on the system. Perimeter Protection options let you customize tripwires based on the object type and allow intelligent automation within a limited area of access such as pedestrian or vehicle-only zones. The combination of advanced Al analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

Al Coding

Al coding uses an advanced algorithm to optimize human and vehicle targets, resulting in a reduced bitrate compared to H.264/H.265 encoding.

iMD (Intelligent Motion Detect)

This is an upgraded version of motion detection currently known as Intelligent Motion Detection (iMD). The upgraded Plus version greatly improves alarm accuracy by pre-loading a deep learning algorithm that recognizes people and vehicles. Motion detection alerts containing a human and/or vehicle intrusion event are now possible with up to 95% accuracy. Eliminate false alarms, save time and keep stress levels low knowing you're protected.

Real-Time Face Recognition

This feature works with live video, historic footage, and snapshots. It allows users to identify facial attributes include gender, age, and expression of emotion. Additional characteristics can be applied such as glasses, mustache, face or mouth mask, and beard. Metadata can also be used to identify these characteristics. Enhanced features allow the user to import new facial images and catalog recorded or live view faces into a database for future alerts. Users are further able to create numerous lists and catalog facial images corresponding to those named lists. This allows for precise notification via email, text and push notifications via SmartICRSS PRO app. (Real-Time Facial Detection gives users the flexibility to analyze target feature while streaming live video or viewing history or snapshots. Importing facial images gives users full functionality and notification by retaining and cataloging faces.)





Technical	Specificati	on
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Main Processor Embedded LINUX Video Embedded LINUX Video 32 Channel (if all coax channels are disabled), each channel up to 8MP Analog Video Input 32 TV Output Yes AVS Resolution 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps; 720p@25/30 fps AHD Resolution 5MP, 4MP, 1080p@25/30 fps; 720p@25/30 fps TVI Resolution 5MP, 4MP, 1080p@25/30 fps; 720p@25/30 fps CVBS Standard PAL/NTSC Audio 16-channel BNC (external) 32-channel BNC (coaxial audio) Output 1 channel, BNC Two-way Talk 1 channel, BNC Audio Compression G.711a; G.711u; PCM Display Interface 2 HDMI, 1 VGA VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 1024, 1280 × 720 Display Split 1/4/8/9/16/25/36 Multi Screen Main + Extra screen (only coax channels are supported on extra screen) Privacy Masking 4 rectangular zones (each camera) OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Video Com	System	
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P Video Input 32 Channel (if all coax channels are disabled), each channel up to 8MP	Operating System	Embedded LINUX
Analog Video Input 32	Video	
TV Output	IP Video Input	
AVS Resolution	Analog Video Input	32
AVS Resolution AHD Resolution 5MP, 4MP, 1080p@25/30 fps; 720p@25/30 fps TVI Resolution 5MP, 4MP, 1080p@25/30 fps; 720p@25/30 fps CVBS Standard PAL/NTSC Audio Input 16-channel BNC (external) 32-channel BNC (coaxial audio) Output 1 channel, BNC Two-way Talk 1 channel, BNC Audio Compression Display Interface 2 HDMI, 1 VGA VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Display Split 1/4/8/9/16/25/36 Multi Screen Privacy Masking 4 rectangular zones (each camera) OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Video Compression Al Coding (16ch)/H.265+/H.265/H.264+/H.264 4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF Main stream: 4K (1fps-15fps); 6MP(1fps-20 fps); 5MP(1fps-25/30fps) Sub stream: 4K (1fps-15fps); 6MP(1fps-20 fps); 5MP(1fps-25/30fps) Sub stream: 960H(1fps-15fps); D1/CIF(1fps-25/30fps) Bit Rate 32 kbps-6144 kbps Per Channel Incoming bandwidth: 128 Mbps, Recording bandwidth: 128 Mbps, Recording bandwidth: 128 Mbps Outgoing bandwidth: 128 Mbps Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30	TV Output	Yes
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Record Mode (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop $1 \sim 60 \text{ min (default: } 60 \text{ min), Pre-record: } 1 \sim 30$	Bandwidth	Recording bandwidth:128 Mbps
	Record Mode	(Video detection: Motion Detection, Video Loss,
	Record Interval	

Vidad	Detecti	on &	Alarm

General Alarm	Motion detection; video loss; tampering; local alarm
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
Alarm Input	16 channels
Relay Output	6 channels

Playback & Backup

Sync Playback	1/4/9/16
Record Mode	General, motion detection; intelligent; alarm;
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Backup Mode	USB Device/Network

Network

Ethernet	2 (10/100/1000 Mbps Ethernet ports, RJ-45)
Network Mode	Multi-address mode,Fault Tolerance,Load Balance
Network Functions	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Interoperability	ONVIF 21.12, CGI Conformant
Max. User Access	128 users
Smart Phone	Android, iOS
Storage	
Internal HDD	8 SATA Ports, up to 10TB capacity for each disk

eSATA **Auxiliary Interface**

USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
RS232	1 port, for PC Communication & Keyboard
RS485	1 Port. for PTZ Control

1 (Contact Technical Support for Compatible devices)

General

Power Supply	100-240 VAC, 50/60 Hz
Power Consumption	<22W (Without HDD)
Working Environment	14 °F to +131 °F(–10 °C to +55 °C), $10\sim90\%$ RH
Installation	Desktop/ Rack mountable
Dimensions (W×D×H)	2U, 17.32" × 18.23" × 3.73" (439.9 mm × 463.0 mm × 94.9 mm)
Net Weight	15.21 lb (6.9 kg) without HDD
Gross Weight	20.94 lb (9.5 kg)
Cortifications	



Certifications FCC: Part 15 Subpart B





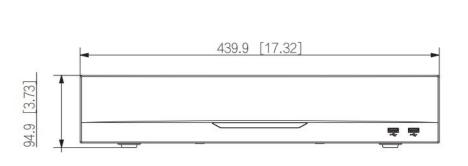
Al Features

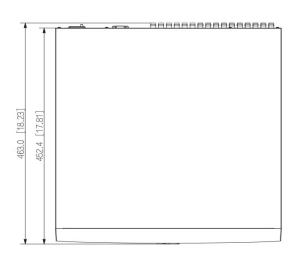
Perimeter Protection	
Capabilities	Virtual Line Detection alarm for human and vehicle. Filters misinformation such as leaves and light. Function configuration: Set up to 10 rules with area intrusion and tripwire intrusion.
Performance	Advanced Model (Increased Accuracy): 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel
Al Search	Search by target classification (Human, Vehicle)
Intelligent Motion Detect (iMD)	
Capabilities	Motion detection alarm with human and vehicle recognition. Filters misinformation such as leaves and light.
Performance	Up to 16 channels (coax channel only)
Al Search	Search videos through channels, time and target types.
Face Recognition	
Capabilities	Up to 12 face pictures/sec processing (modeling and comparing).
Performance	Up to 2 channels support human face recognition (coax channel only) *If enabled, All other Al features will be disabled.
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.
Al 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 $10,\!000$ face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image
Database Application	Each database can be applied to video channels independently



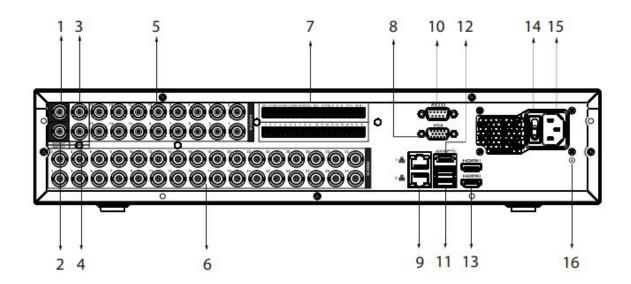


Dimensions (mm/in)





Panels



- 1 AUDIO OUT, BNC Connector
- 3 MIC IN, BNC Connector
- 5 AUDIO IN, BNC Connector
- 7 Alarm Input/Output
- 9 Network Ports
- 11 USB Ports
- 13 HDMI Ports
- 15 Power Input

- 2 VIDEO OUT
- 4 MIC OUT, BNC Connector
- 6 VIDEO IN
- 8 VGA Port
- 10 RS-232 Port
- 12 eSATA Port
- 14 Power Switch
- 16 Ground