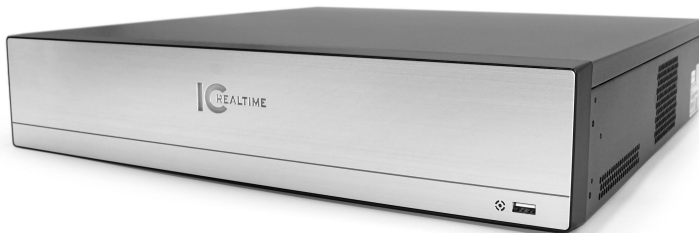


AVR-4M316

16 Channel Penta-brid 4MP 2U Digital Video Recorder



- Embedded processor
- Smart H.264 dual-stream video compression
- Support HD-AVS/AHD/CVBS/TVI/IP video inputs
- Max 64 channels IP camera inputs, each channel up to 12MP
- Max 256Mbps Incoming Bandwidth, 384Mbps Forwarding Bandwidth
- Smart Search and Intelligent Video System
- Support HD-AVS/CVBS Loop Out

System Overview

IC Realtime's newest generation digital video recorder adopts HDAVS technology, this technology is an over-coaxial-cable analog HD video transmission standard, allowing long-distance HD transmission at a lower cost to meet the requirements for a complex and large installation. It supports up to 16 channels of HDAVS/CVBS inputs, or up to 64 channels IP camera totally, 32 local live-view channels, and 16 playback channels. Designed as a low-cost, easy installation product, this AVR is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education. It is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.42.

HDAVS/AHD/TVI/CVBS Auto Detect

The AVR can auto-recognize the signal of a camera without any configuration needing to be done. It makes operations friendlier and more convenient.

Spot Output and Video Matrix

The AVR provides a spot output channel for a secondary monitor. This monitor allows the operator to view one monitor that is assigned to selected cameras or video inputs from high-security areas. The video matrix uses a composite TV out connection.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the AVR has the ability to detect and analyze moving objects for improved video surveillance. The AVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed.

Fisheye Dewarp

The AVR features multiple fisheye dewarping modes to make viewing video easy whether its live or during playback.

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video

IP Video Input	64 Channel, each channel up to 12MP
Analog Video Input	16
Loop Output	16 channel, BNC
AVS Resolution	4K, 4MP, 1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
AHD Resolution	4K, 4MP, 1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
TVI Resolution	4K, 4MP, 1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
CVBS Standard	PAL/NTSC

Audio

Input	16 channel, BNC
Output	1 channel, BNC
Two-way Talk	1 channel Input, 1 channel Output (reuse the audio output channel), BNC

Display

Interface	2 HDMI(HDMI1 up to 4K), 1 VGA, 1 TV
Resolution	3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720, 1024×768
Display Split	1/4/8/9/16/25/36
Privacy Masking	4 rectangular zones (each camera)
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Recording

Video/Audio Compression	H.264+/H.264
Image Resolution	4K, 4MP, 1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
Record Rate	Main stream: 1st and 9th channel 4K(1~12/15fps)/4MP(1~25/30fps), others 4MP(1~15fps); 1080P/720P/960H/D1/HD1/BCIF/CIF/QCIF(1~25/30fps), Sub stream:960H/D1/CIF/QCIF(1~25/30fps)
Bit Rate	1Kbps ~ 12288Kbps Per Channel
Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

Video Detection & Alarm

Trigger Events	Recording, PTZ, Tour, Alarm Out, 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	16 channel
Relay Output	6 channel

Playback & Backup

Sync Playback	1/4/9/16
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Functions	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/eSATA Device

Network

Ethernet	2 RJ-45 ports (1000M)
Network Functions	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search (Support IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone

Storage

Internal HDD	8 SATA Ports, up to 8TB capacity for each disk
External HDD	1 eSATA port

Auxiliary Interface

USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
RS232	1 port, For PC communication & Keyboard
RS485	1 Port, for PTZ Control

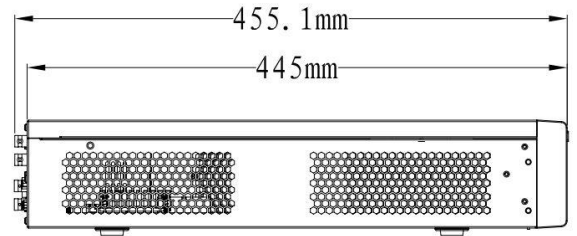
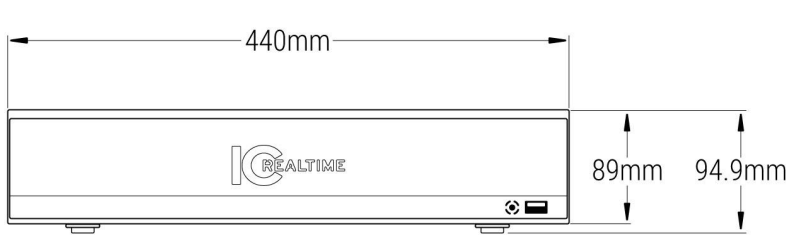
General

Power Supply	AC100V-240V,50/60Hz
Power Consumption	<40W (Without HDD)
Working Environment	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH
Dimensions (W×D×H)	2U, 440mm×455mm×95mm (17.3"×17.9"×3.7")
Weight	9.48 kg (without HDD)

Certifications

Certifications	CE: EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 FCC: 47 CFR PART 15 SUBPART B, 2015 UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07
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Dimensions (mm/in)



Panels

