

AVR-1716-V1

16 Channel Penta-brid 1080P 1U Digital Video Recorder



- Embedded processor
- H.264+/H.264 Dual-stream video compression
- Support HD-AVS/CVBS/HDTVI/AHD video inputs
- Max 24 channels IP camera inputs, each channel up to 5MP
- Max 96Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System

System Overview

As the perfect solution to upgrade existing video surveillance systems, this AVR supports pentabrid technology, HDAVS, AHD, TVI, CVBS and IP compatibility, to effortlessly integrate with popular industry formats. This AVR offers an affordable solution loaded with flexible options. It supports up to 16 channels of HDAVS/ AHD/TVI/CVBS inputs, and 8 additional IP camera channels, 16 local live-view channels, and 16 playback channels. Designed as a full compatibility product, this AVR is able to provide the end user the simplicity of analog systems, a lower system cost, simple installation, and make use of existing cable. It is ideal for a wide range of applications such as public safety, retail stores, transportation, home protection, and education.

Smart H.264+

With the H.264+ Smart Codec, you can reduce bit rates and storage requirements by up to 70% without having to invest in new cameras.

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.

5MP Resolution

The AVR supports up to 5MP HD resolution (2560 x 1920) IPC input for recording and live viewing.

Spot Output

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

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.

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video

IP Video Input	16+8 Channel, each channel up to 5MP
Analog Video Input	16
Loop Output	N/A
AVS Resolution	1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
AHD Resolution	1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
TVI Resolution	1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
CVBS Standard	PAL/NTSC

Audio

Input	1 channel
Output	1 channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Display

Interface	1 HDMI, 1 VGA
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768
Display Split	1/4/8/9/16/25
Privacy Masking	N/A
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Recording

Video/Audio Compression	H.264+/H.264
Image Resolution	1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
Record Rate	Main stream: 1080P/720P/960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps) Sub stream: D1/CIF/QCIF(1~25/30fps)
Bit Rate	32Kbps ~ 6144Kbps 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	3 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

Network

Ethernet	1 RJ-45 Port (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	2 SATA Ports, up to 6TB capacity for each disk
External HDD	N/A

Auxiliary Interface

USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)
RS232	N/A
RS485	1 Port, for PTZ Control

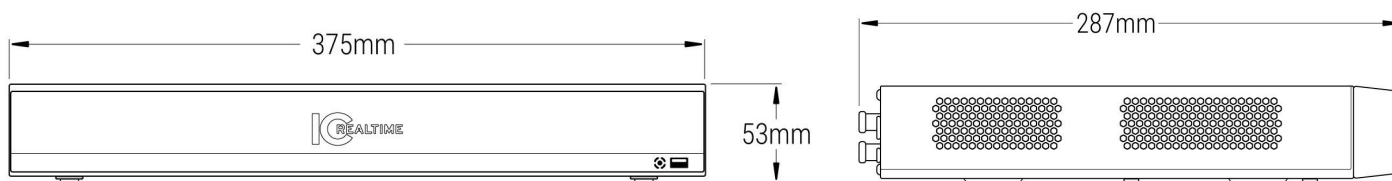
General

Power Supply	DC12V/5A
Power Consumption	<15W (Without HDD)
Working Environment	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH
Dimensions (W×D×H)	1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1")
Weight	3.0kg (6.6 lb) (without HDD)

Certifications

Certifications	FCC: Part 15 Subpart B ICES 003 Issue 6 CE: EN 55032: 2012+AC:2013 (Class B) EN 55024 : 2010 EN 61000-3-2 : 2014 EN 50130-4: 2011 EN 61000-3-3 : 2013 UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07
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Dimensions (mm/in)



Panels

