

# AVR-816S

16 Channel Hybrid DVR



- Embedded processor
- H.264+/H.264 video compression
- Support HDAVS/AHD/CVBS video inputs
- Max 64 channels IP camera inputs, each channel up to 12MP
- Max 256Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System

## System Overview

IC Realtime's newest generation digital video recorder adopts HDAVS technology, 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 IP camera channels, 16 channels 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.

### Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects

for improved video surveillance. The camera 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, ideal for business intelligence, workforce optimization, and actionable intelligence.

### Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

### Flexible Recording

The AVR offers a variety of configurable recording options and schedule that saves HDD space and active monitoring time. The recorder monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The recorder can also be programmed to record on a schedule or at different intervals. The recording options and schedules can be set for each individual camera or copied to all cameras.

## 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	N/A
AVS Resolution	1080P/720P(1/16~25/30fps)
AHD Resolution	1080P/720P(1/16~25/30fps)
CVBS Standard	PAL/NTSC

### Audio

Input	16 channel, BNC
Output	1 channel, BNC
Two-way Talk	1 channel Input, 1 channel Output, BNC

### Display

Interface	2 HDMI ,1 VGA,1 TV
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768
Display Split	1/4/8/9/16
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	1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
Record Rate	Main stream: 1080P/720P/960H/D1/HD1/BCIF/CIF/QCIF (1/16~25/30fps) Sub stream:960H/D1/CIF/QCIF(1/16~25/30fps)
Bit Rate	1Kbps ~ 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	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/Internal SATA/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 (Supports ICR IP cameras, 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

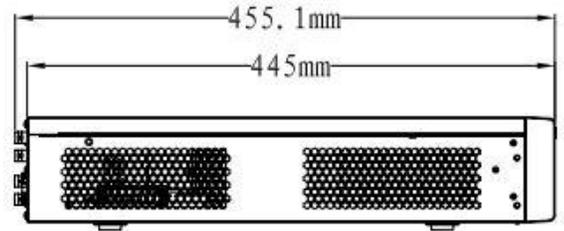
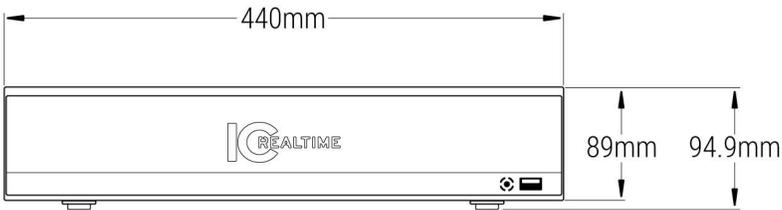
### General

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×460mm×89mm (17.2"×18.1"×3.5")
Weight	9.8kg (21.6lb)

### 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

