alhua TECHNOLOGY

Wi-Fi Network Video Recorder
4 Channel Compact 1U Wi-Fi Network Video Recorder

- H.264/MJPEG Video Decoding
- Max. 80 Mbps Incoming Bandwidth
- Up to 5 MP Resolution for Preview and Playback
- Simultaneous HDMI/VGA Video Output
- Three-antennas Strengthen the Wi-Fi Signal
- Supports Dual-band 2.4 GHz and 5 GHz Operation

Dual Core Processor | 5Mp | H.264 | Wi Fi | Smart Add

System Overview

Dahua's second-generation Wi-Fi Network Video Recorder features an embedded Wi-Fi module that supports Wireless Access Point functionality. The Wi-Fi NVR automatically detects and connects to Wi-Fi-enabled IP cameras without any advanced setup. The Wi-Fi NVR uses three antennae for a strong wireless network signal, and it offers dual-band 2.4 GHz / 5 GHz operation to ensure the widest possible coverage area.

Designed as a low-cost recording option, the WiFi NVR is an ideal component of a total surveillance solution for a wide-range of applications, including home safety, retail, warehouse, education, and other industries.

The Wi-Fi NVR is compatible with numerous third-party devices allowing for easy integration into existing surveillance systems with or without a video management system (VMS). The NVR features an open architecture to support multi-user access; and its ONVIF 2.4 compatibility enables interoperability with other IP cameras.

Functions

Recording
The Dahua Wi-Fi NVR uses H.264 video compression to significantly reduce the file size of recordings without a loss of resolution. The built-in recording modes determine when the NVR records video from each camera. The NVR can be configured to record continuously, on a regular schedule,or when the system detects motion in scene.

5 MP Resolution
The NVR supports 4 MP HD resolution (2560 x 1440) and 5 MP HD resolution (2560 x 1920) for recording, live viewing, and playback. Each channel offers a maximum bit rate of 20 Mbps (for a total record rate of 80 Mbps) ensuring high-quality video recording and playback.

Smart Add
Smart Add functionality removes the hassle of locating Wi-Fi-enabled cameras on the network and associating these cameras with NVR. Once the Wi-Fi NVR is connected, it automatically scans the Wi-Fi network for cameras and connects the cameras to the NVR to start recording.

Automatic Network Replenishment Technology (ANR)
ANR technology ensures no video data is lost, even if the network goes down. The Dahua NVR automatically stores video data on the IP camera's storage card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Wireless Access Point (WAP)
A Wireless Access Point is a device that allows wireless devices to connect to a wired network using Wi-Fi. Wireless Access Points act as a central transmitter and receiver of wireless radio signals. This technology allows the Wi-Fi NVR to expand the Wi-Fi network to cover a greater distance.

Watermark
The Dahua Wi-Fi NVR allows placement of a watermark on the recorded video. An operator can apply a text overlay (up to 85-characters long) to the video to ensure recording integrity.

P2P
The P2P function allows operators to monitor and manage the NVR anytime from anywhere.

ONVIF

Technical Specification

System

Main Processor	Dual-core embedded processor
Operating System	Embedded LINUX

Display

Interface	One (1) HDMI One (1) VGA
Resolution	1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Multi-screen Display	1/4
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, and Recording

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, and Camera Blank

Playback and Backup

Playback	1/4
Search Mode	Time/Date, MD, and Exact Search (accurate to one second), Smart Search
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	One (1) SATA III Port. Up to 6 TB capacity for each HDD
HDD Mode	Single

Connections

IP Video	Four (4) Channels
USB (auxiliary)	Two (2) USB 2.0 Ports

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 others

Recording

Compression	H.264/MJPEG
Resolution	5 MP/ 4 MP/ 3 MP/ 1080p / 1.3 MP / 720p
Record Rate	80 Mbps
Bit Rate	16 Kbps to 20 Mbps per Channel
Record Mode	Manual, Schedule (Regular, Continuous), MD (Video detection: Motion Detection, Camera Blank, Video Loss), Stop
Record Interval	1 min. to 120 min. (default: 60 min.), Pre-record: 1 s to 30 s Post-record: 10 s to 300 s

Network

Ethernet Port	One (1) Independent 100 Mbps Ethernet Port
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, IP Search (Supports Dahua IP Cameras, DVRs, NVS)
Max. User Access	128 users
Mobile Operating System	IOS and Android
Interoperability	ONVIF 2.4, CGI Conformant

Electrical

Power Supply	Single, DC12V / 2 A
Power Consumption	< 10 W (without HDD)

Environmental

Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86 to 106 kpa
Storage Conditions	-20°C to +70°C (-4°F to +158°F), 0 to 90% RH

Construction

Dimensions	260.0 mm x 246.40 mm x 47.60 mm (10.24 in. x 9.70 in. x 1.87 in.)
Net Weight	0.5 kg (1.1 lb) (without HDD)
Gross Weight	2.0 kg (4.4 lb)(without HDD)

Certifications

CE	Coming soon
FCC	Coming soon

Ordering Information

Type	Part Number	Description
Compact Wi-Fi NVR	DHI-NVR41A04HS-W-S2	4-Channel Compact 1U Wi-Fi Network Video Recorder

Dimensions

260.0 mm
(10.24 in.)

246.40 mm
(9.70 in.)

47.60 mm
(1.87 in.)