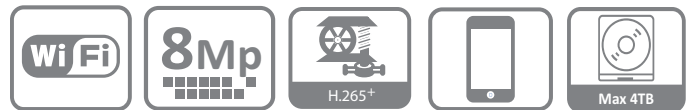**Dahua** TECHNOLOGY

4-channel 4K WiFi Network Video Recorder
Compact 1U H.265 Wireless Network Video Recorder

- Dual-core Embedded Processor
- Supports IEEE 802.11b/g/n 2.4 GHz
- Two Antennas for a Strong WiFi Signal
- Smart H.265+ and Smart H.264+ Dual Codec
- Maximum 80 Mbps Incoming Bandwidth (Wired Connection)
- Maximum 24 Mbps Incoming Bandwidth (Wireless Connection)
- Up to 1 Channel of 8 MP or 4 Channels of 1080p Maximum Decoding
- Five-year Warranty*

WiFi · 8Mp · H.265+ · Max 4TB

System Overview

Dahua's third-generation WiFi Network Video Recorder features an embedded WiFi module that supports Wireless Access Point functionality. The WiFi NVR automatically detects and connects to WiFi-enabled IP cameras without any advanced setup. The WiFi NVR uses two antennae for a strong wireless network signal, and it supports IEEE 802.11 b/g/n (2.4 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 WiFi NVR coupled with Dahua's WiFi Network Cameras creates an instant wireless surveillance system, independent of a third-party VMS system. The NVR also features an open architecture to support multi-user access; and its ONVIF 2.4 compatibility enables interoperability with other IP cameras.

Functions

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

4K Resolution
4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

Smart H.265+
Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

DMSS
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

ONVIF

*Warranty applies to products sold through an authorized Dahua Dealer.

Technical Specification

System

Main Processor	Dual-core Embedded Processor
Operating System	Embedded LINUX

Audio and Video

IP Camera Input	Four (4) Channels

Display

Interface		One (1) HDMI One (1) VGA
Resolution	HDMI	3840×2160, 1920×1080, 1280×1024, 1280×720
	VGA	1920×1080, 1280×1024, 1280×720
Maximum Decoding		One (1) Channel of 8 MP at 30 fps Four (4) Channels of 1080p at 30 fps
Multi-screen Display		1/4
OSD		Camera title, Time, Camera lock, Motion Detection, Recording

Recording

Compression	Smart H.265+, H.265, Smart H.264+, H.264
Supported IP Camera Resolution	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, D1, CIF
Maximum Incoming Bandwidth	Wired Camera Connection: 80 Mbps Wireless Camera Connection: 24 Mbps
Bit Rate	16 Kbps to 20 Mbps per Channel
Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection, Stop
Record Interval	1 to 120 minutes (default: 60 minutes) Pre-record: 1 to 30 s Post-record: 10 to 300 s

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), and Tampering

Playback and Backup

Sync Playback	1/4
Search Mode	Time /Date, Motion Detection, and Exact Search (accurate to one second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device, Network

Third-party Support

Third-party Support	Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and others

Network

Interface	One (1) RJ-45 (10/100 Mbps) Port
Wireless	IEEE 802.11b/g/n, 2.4 GHz
Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support for Dahua IP cameras, DVRs, NVS)
Maximum User Access	128 Users
Mobile Operating System	IOS, Android
Interoperability	ONVIF 2.4, SDK, CGI

Storage

Internal HDD	One (1) SATA III Port, up to 6 TB capacity
HDD Mode	Single

Auxiliary Interface

USB	Two USB 2.0 Ports (One Front Panel, One Rear Panel)

Electrical

Power Supply	12 VDC, 2 A
Power Consumption	< 6.6 W (without HDD)

Environmental

Operating Conditions	0° C to +40° C (+32° F to +104° F), 86 to 106 kpa
Storage Conditions	−20° C to +70° C (−4° F to +158° F), 0 to 90% RH

Construction

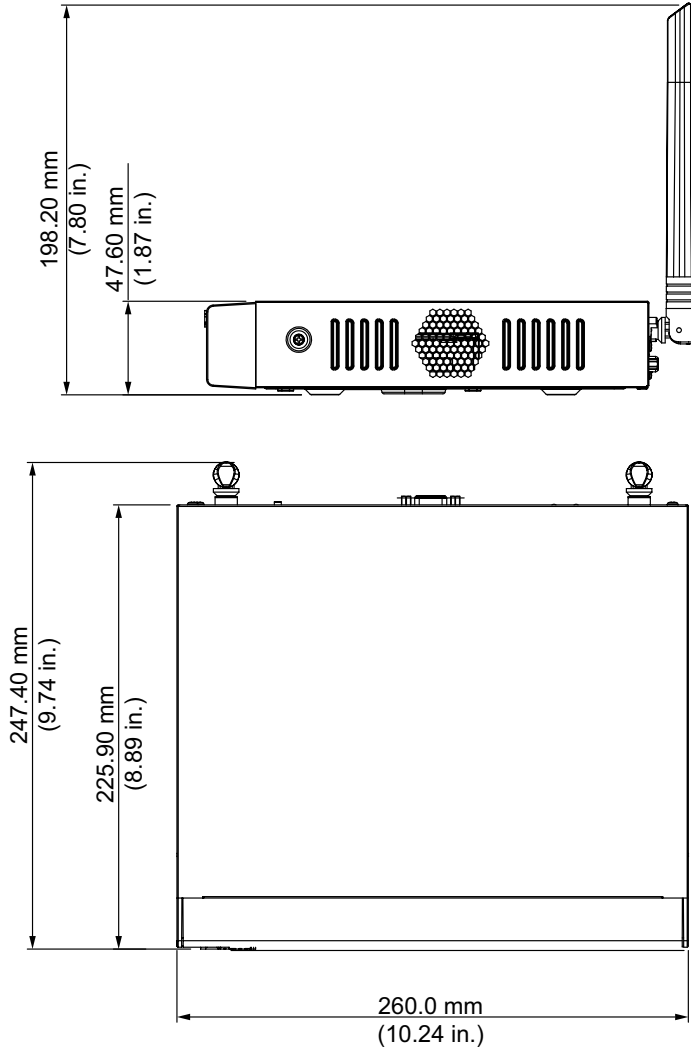|	
Dimensions (W x D x H)	Compact 1U, 260.0 mm x 247.40 mm x 198.20 mm (10.24 in. x 8.8.9 in. x 7.80 in.)
Net Weight	1.3 kg (2.90 lb), without HDD
Gross Weight	2.0 kg (4.40 lb), without HDD

Certifications

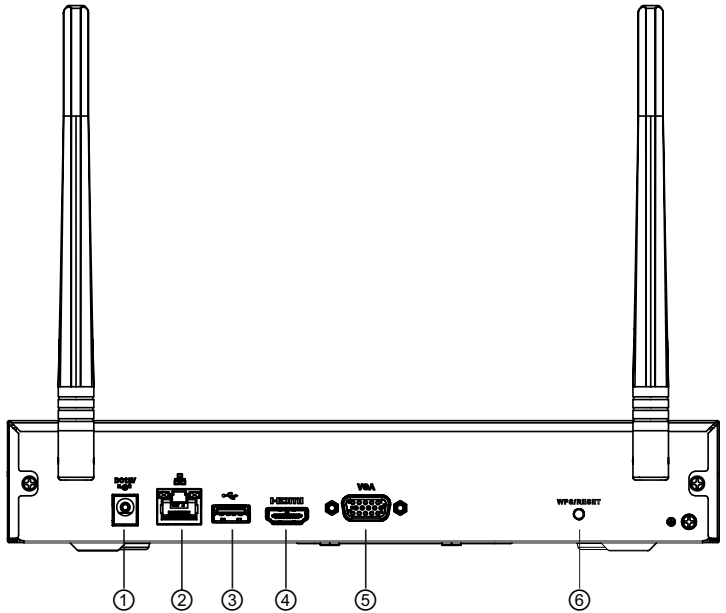|	
Safety	UL60950-1
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B ANSI C63.4-2014 EN55032, EN55024, EN50130-4, EN60950-1

Ordering Information

Type	Part Number	Description
WiFi NVR	N41B1W	Four (4) Channel Compact 1U Lite 4K H.265 Wireless Network Video Recorder
Accessory, included	Power Adapter	12 VDC, 2 A Power Adapter

Dimensions (mm/in.)

198.20 mm (7.80 in.)
47.60 mm (1.87 in.)

247.40 mm (9.74 in.)
225.90 mm (8.89 in.)

260.0 mm (10.24 in.)

Rear Panel

① ② ③ ④ ⑤ ⑥

1	Power Input	4	HDMI OUT
2	Network Port	5	VGA OUT
3	USB Port	6	WiFi Protected Setup (WPS)/Reset Button • NVR Reset: One quick press • WPS: Press button for three (3) seconds