

32 Channel 4-in-1 High Definition DVR with 4HDD Bays

WAHD324H



Quick Start Guide

Please read these instructions carefully before operating the unit and keep for further reference.

Please read this instruction carefully before operating the product and keep it for further reference. All examples and pictures used here are for reference only.
The contents of this manual are subject to change without notice.

CAUTION:

- Please check the device and the accessories after getting the device. If there are any damages, shortages or defects, please contact your dealer immediately.

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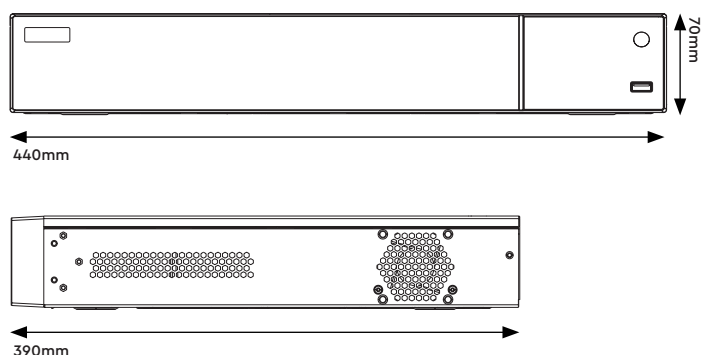
1.0 Introduction

The Genie WAHD324H is a 32 channel 1080p H.264 high definition DVR. The DVR supports 32 channel video input, 4 channel audio input and 16 channel simultaneous playback. It is iPhone and Android compatible with an app (Super Live Plus) available with free Windows / MAC CMS software supplied.

1.1 Product Features

- 32 CH TVI / CVI / AHD video input
- 32 CH 1080p / 1080p Lite / 720p / WD1 recording
- H.264 high profile compression format for high quality video at much lower bit rate
- Intuitive and user friendly graphics user interface (GUI), window style operation by mouse
- Multi-mode recording: Manual / Timer / Motion
- Playback : 16 CH simultaneous playback
- Search: Time slice, Time, Event (Manual, Motion), Tag Search
- Express and flexible backup via USB, network etc.
- Pentaplex : Preview, Record, Playback, Backup and Remote Access
- DHCP, DDNS, PPPoE Network Protocol, IE browser and CMS supported
- Remote control via Web or CMS : Preview, Playback, Backup, PTZ and Configuration
- Dual stream technology for local storage with high definition, remote network transmission and remote surveillance with mobile device
- Multi-user online simultaneously
- P2P ready for hassle free remote access
- Authorisation management, log review and device status review
- Supports HDMI 1080P output, true high resolution display
- Supports PTZ preset and auto cruise, up to 255 presets and 8 cruises
- Supports NAT function and QR code scanning by mobile phone and iPad
- Powerful smart phone & iPad surveillance with iOS and Android OS

1.2 Product Dimensions



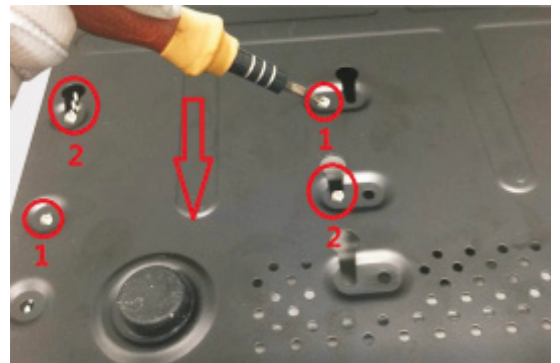
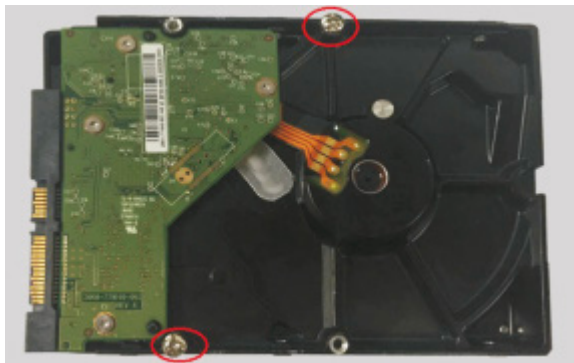
1.3 Specification

Model		WAHD324H
System	OS	Embedded Linux
	CPU	Cortex A9
Video	Input	BNC x32
	Output	HDMI x 1 : 1920×1080, VGA x 1 : 1920×1080, BNC x 1 : CVBS (Used as the main or spot output)
	Resolution	TVI / CVI / AHD 1080p, 720p, WD1 real-time
	Compression	H.264 / H.265
Audio	Input	RCA x 4
	Output	RCA x1
	Two-Way Audio	Yes
Mobile Device	OS	iOS, Android
Storage	HDD	HDD : SATA x 4, Max. 6TB per HDD
Playback	Playback	16 CH
	Search	Time Slice / Time / Event / Tag Search
	Smart Search	Highlighted colour to display the camera record in a certain period of time, different colours refers to different record events.
	Function	Play, Pause, FF, FB, Digital Zoom, etc.
Alarm	Mode	Manual, Motion, Exception
	Input	4
	Output	1
	Triggering	Record, Snap, Preset, E-mail etc.
Network	Interface	RJ45 10M / 100M / 1000Mbps x 1
	Protocol	TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP
Record	Resolution	1080p, 1080p Lite, 720p, WD1
	Frame Rate	1080P : 12fps (PAL) / 15fps (NTSC)
		1080P Lite / 720p
		WD1 : 25fps (PAL) / 30fps (NTSC)
	Bit Rate	768Kbps ~ 8Mbps
	Mode	Manual, Timer, Motion, Sensor
Remote Monitoring	Immix	Compatible with Immix via RTSP only (2-way audio not supported)
	Sentinel	Yes, Firmware 1.1.0 or later
Backup	Local Backup	USB stick, USB mobile HDD
	Network Backup	Yes
Port	RS485	RS485 × 1, connect to PTZ or keyboard
	USB	USB 2.0 × 1 (In the front panel), USB 3.0 × 1 (In the rear panel)
	Remote Controller	Optional
Others	Power Supply	ATX250W
	Consumption	≤ 20W (Without HDD)
	Working Environment	-10~50°C, 10%~90% (Humidity)
	Dimensions	440 × 390 × 70 mm

2.0 HDD Installation

This series of the product supports 4 SATA hard drives. Please make sure that the device is powered off before the installation. The pictures of the installation are only for reference.

1. Loosen the screws to open the cover.
2. Screw two screws into the holes of HDD but not don't tighten them.
3. Turn over the machine and place the HDD with two screws onto the bottom of the case. Then lock the screws according to the order of the marks.



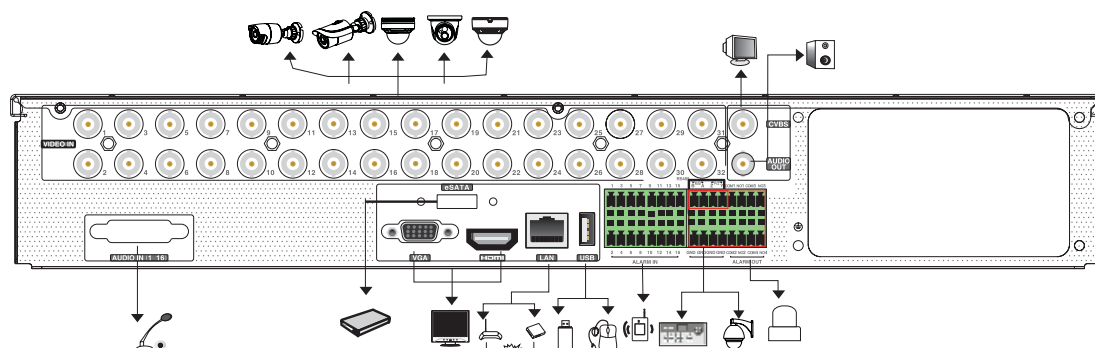
4. Install the other three HDDs according to above-mentioned method.
5. Connect the power and data cables.
6. Install the cover back and fix it.



Note: Please check the inside structure of the device and make sure that the cables are connected well before installing the cover back. Please format the HDD before using.

3.0 Rear Panel Instruction

The interfaces of the rear panel are for reference only.



Name	Description
VGA	Connect to monitor
HDMI	Connect to high definition display device
LAN	Network port
USB	Connect to USB storage device or USB mouse
ALARM IN	Alarm input for connecting sensor
ALARM OUT	Relay output, connect to external alarm
GND	Ground
P/Z	Connect to speed dome. Y is TX+,Z is TX
K/B	Connect to keyboard. A is TX+,B is TX
AUDIO OUT	Audio output
AUDIO IN	Audio input
e-SATA	Connect to HDD with e-SATA interface

4.0 Start Up and Shut Down

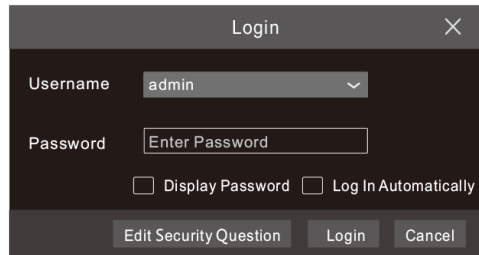
Startup

1. Connect the monitor and the power.
2. The device will boot and the power indicator will display blue.
3. A wizard window will pop up.

Shutdown

Go to "Main Menu" and then select "Shutdown" icon. This will bring up a shutdown window. The device will shut down by clicking "OK" button. Then disconnect the power.

5.0 Login

A dark-themed login dialog box titled "Login" with a close button (X) in the top right corner. It contains a "Username" field with a dropdown menu showing "admin", a "Password" field with the placeholder text "Enter Password", and two checkboxes: "Display Password" and "Log In Automatically". At the bottom, there are three buttons: "Edit Security Question", "Login", and "Cancel".

Username: admin

Password: Enter Password

☐ Display Password ☐ Log In Automatically

Edit Security Question Login Cancel

The default username is admin and the default password is 123456. You must configure the wizard if you start the DVR for the first time and you may change the password when you configure the wizard for the first time. You can skip the settings wizard next time. Click "Start" and select "Login". This will take you to see a login box. Enter the default username and password you set. Then you will see the live image.

6.1 Analogue Camera Connection

First connect the camera to the DVR.

Then go to Start → Settings → Camera → Manage Camera → Camera Signal to checkmark the video mode. The actual signals input shall correspond to the video mode. Please refer to the User Manual for details.

6.2 Network Configuration & Adding IP Camera

After you finish adding IP cameras, you can see the live images through the monitor of the DVR. The following will mainly introduce how to add the IP cameras via LAN/WAN.

LAN

1. Set the network of the DVR. Go to Start → Settings → Network → TCP/IP. Enter IP address, subnet mask, gateway, etc. If using DHCP, please enable DHCP in both the DVR and the router.
2. Go to Start → Settings → Network → Port. Enter HTTP port (the default value is 80), server port (the default port is 6036).
3. Click "Apply" to save the settings.

IP Address Settings

Ethernet Port 1 (Online)

☐ Obtain an IPv4 address automatically

Address: 192.168.1.2

Subnet Mask: 0.0.0.0

Gateway: 192.168.1.1

MTU: 1500

☐ Obtain an IPv6 address automatically

Address:


Mask Length: 0

Gateway:

☐ Obtain DNS server address automatically

Preferred DNS: 192.168.1.1

Alternate DNS: 0.0.0.0

4. Go to Start → Settings → Camera → Add Camera. The DVR will automatically refresh the cameras searched. The IPC which supports the Onvif protocol may be added manually. If the IPC searched is not in the same local network as the DVR, you should select the device and click  to modify the IP address.

Add Camera

Quickly Add Manually Add

No.	Address	Port	Edit	Subnet Mask	Protocol	Model	Version
1	192.168.2.45	80		255.255.255.0	XXX	XXX	4.0.0.1.beta1

Selected: 1/1

Remain Bandwidth: 10 / 10 Mb

Default Password Add Cancel

Edit IP

Mac Address: CE:98:23:75:35:22

Address: 192.168.1.45 ☐ Sync to IPC


Subnet Mask: 255.255.255.0

















Gateway: 192.168.1.1

Username: admin

Password:

OK Cancel

5. Checkmark the device you want to add and then click "Add" button. The DVR will automatically refresh the cameras and return to "Edit Camera" interface. "Online" status means connecting the device successfully and you will see the live image. You may select the added device and click  button to modify channel, IP address, etc.

Camera Signal Edit Camera IP Planning										
Search Camera  +										
↓ No.	Camera Name	Address	Port	Status	Protocol	Model	Preview	Edit	Upgrade	Version
1	IP Camera 1	192.168.1.45	80	Online	XXX	XXX				4.1.0.0
2	[A01]Camera1									
3	[A02]Camera2									
4	[A03]Camera3									
5	[A04]Camera4									

Edit Camera

Camera Name

IP Camera 1

Address

192.168.1.58

☐ Sync to IPC

Port

80

Protocol

XXX

Model

XXX

Username

admin

Password


•••••

Test

OK


Cancel

WAN

1. Set the network of the DVR. Go to Start → Settings → Network → PPPoE. Enter static IP address or enable PPPoE and then enter the user name and password received from your ISP.
2. Go to Start → Settings → Camera. Click "Add Camera" or  behind the column of the search camera and select "Manually Add" to add the IP cameras. Enter IP address, server port, username and password of the IP camera. The IP camera must be connected over WAN. And here the IP address of the IP camera must be a WAN IP address.

7.0 UPnP





You can use the UPnP function to enable the fast connection of the device to WAN via a router without port mapping.

1. Go to Start → Settings → Network → UPnP, and enable UPnP and then click "Apply" button to save.
2. Enable the UPnP function in the router.
3. Click "Refresh" button to refresh the UPnP status. If the UPnP status were still "Invalid UPnP" after refreshing it for several times, the port would be wrong. Please change the mapping type to "Manual" and then click  to modify the port until the UPnP status turns to "valid UPnP".

UPnP

☒ Enable

Map Type Auto

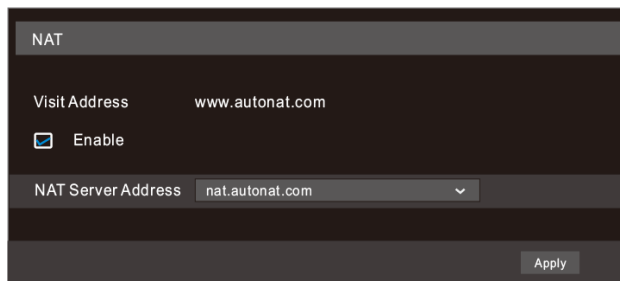
Port Type	External Port	External Address	Port	UPnP Status	Edit
HTTP Port	80	183.17.254.19	80	Valid UPnP	
HTTPS Port	443	183.17.254.19	443	Valid UPnP	
Server Port	6036	183.17.254.19	6036	Valid UPnP	
RTSP Port	554	183.17.254.19	554	Invalid UPnP	

Refresh

Apply

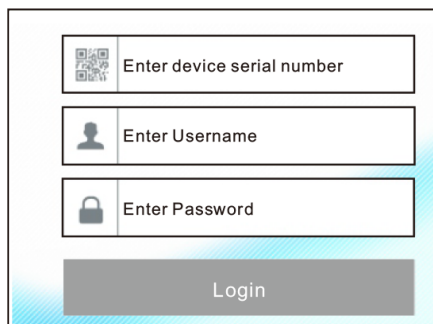
NAT Settings

1. The DVR shall be powered on and connected to the network.
2. Go to Start → Settings → Network → TCP/IP. You can obtain the IP address, subnet mask and gateway automatically. You can also manually enter them according to the actual network situation. Please make sure the network segment is the same as that of the network which is used.
3. Set the preferred or alternative DNS Server. Click "Apply" to save the parameters.
4. Go to Start → Settings → Network → NAT tab. Enable NAT and select the NAT Server Address (The default NAT Server Address is nat.autonat.com). Click "Apply" to save the parameters.




NAT Access

After finishing the NAT settings, you can enter www.autonat.com in the address bar of your browser and then press enter to go to the following interface. If you are the first time to access the NAT, you shall download and install the plug-in according to the tips. After installing the plug-in successfully, it will pop up the login box.



Device Serial Number:

Click  on the menu bar at the bottom of the live interface to check the serial number or go to Start → Settings → Network → Network Status to check the serial number of the DVR).

Username:



The username of the DVR. The default username is admin.

Password:

The password of the DVR. The password is set by yourself when you configure the wizard for the first time.

9.0 Manual Recording and Playback

9.1 Manual Recording

Before recording, please install and format a HDD. In the live interface you can see the menu toolbar. Click  button to start recording. Click it again to stop recording. You can also click  to check the status of the recording.





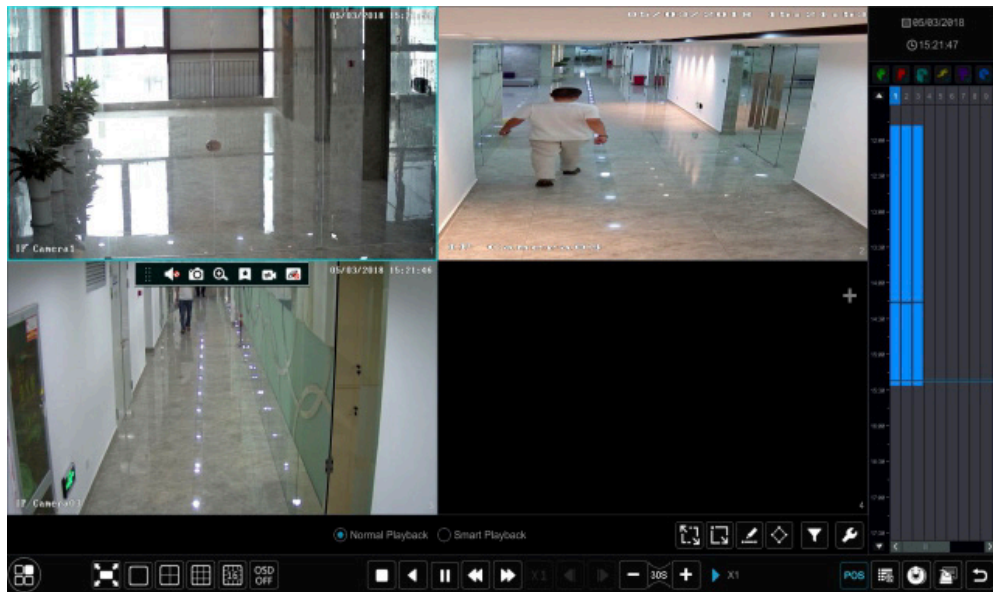
9.2 Playback

Instant Playback

Click "Instant Playback" in the right-click menu of the camera's preview window to select or drag the playback progress bar to change the playback time to play back the record.

General Playback

Click  on the tool bar at the bottom of the live preview interface or click Start → Playback to go to the playback interface as shown below. You can also add the playback cameras manually. Click  in the playback window to pop up the "Add Camera" window. Check the cameras in the window and then click "Add" to add playback camera. The record files of the added playback camera will be played in the playback interface.



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