16 Channel 5-in-1 High Definition 8MP Hybrid DVR with 2 HDD Bays

WAHD8162

Quick Start Guide

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

genie

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.

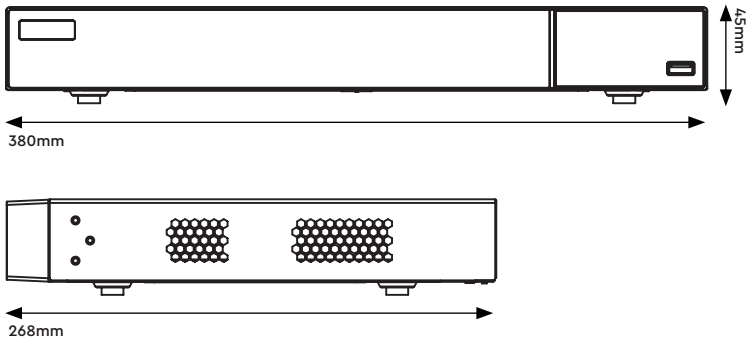
Contents

The Genie WAHD8162 is a DVR that supports 16 channel 8MP, 5MP, 4MP, 3MP, 1080p, 720p and WD1 analogue and IP video input simultaneously. It adopts the standard H.265 high profile compression format and supports 16 channel video input, 1 channel audio input and simultaneous 16 channel playback.

1.1 Product Features

- Supports 16 channel TVI / AHD / CVI 8MP, 5MP, 4MP, 3MP, 1080p, 720p and WD1 video input
- Supports 8 channel 8MP, 5MP, 4MP, 3MP, 1080p, 720p and WD1 IP input by default
- Standard H.265 high profile compression format to get high-quality video at much lower bit rate
- Intuitive and user-friendly Graphics User Interface (GUI window style operation by mouse)
- Pentaplex: Preview, Record, Playback, Backup and Remote access
- HDMI 4K output, true high resolution display
- Multi-mode recording: Manual / Timer / Motion / Smart Event. Playback : 16 channel simultaneous playback
- Search: Time Slice, Time, Event, Tag and Smart Search
- Express and flexible backup via USB and Network
- DHCP, DDNS, PPPoE Network protocol
- Remote control via IE or CMS : Preview, Playback, Backup, PTZ and Configuration
- Authorisation management, log review and device status review
- Dual stream technology for local storage with high definition, remote network transmission and remote surveillance with mobile device
- Simultaneous multi-user online
- Support PTZ preset and auto cruise, up to 255 presets and 8 cruises
- Support NAT function and QR Code scanning by mobile phones and tablets
- Powerful mobile surveillance by smart phones with iOS and Android OS

1.2 Product Dimensions



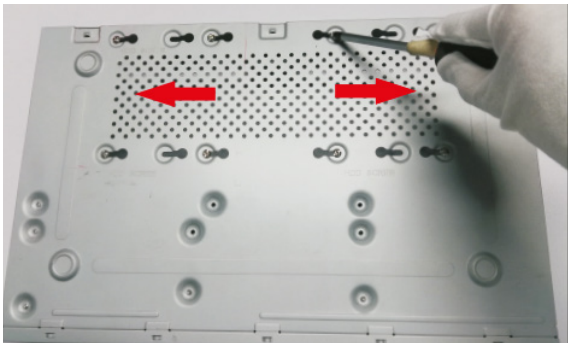
1.3 Specification

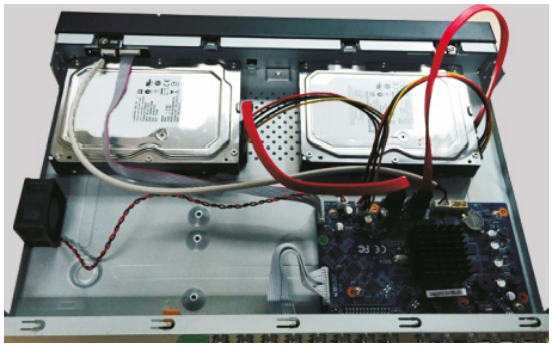
Model		WAHD8162
System	OS	Embedded Linux
Video	Analogue Video Input	BNC x16
		BNC interface (1.0Vp-p, 75Ω)
		TVI / AHD / CVI : 4K @ 15fps, 5MP @ 20fps, 4MP / 3MP / 1080p / 720p / WD1 @ 30fps (Live)
	IP Video Output	8CH (Up to 16CH)
		Up to 8MP @ 30fps
	Total Input	24CH
	Output	HDMI x1 : 3840×2160 / 1920×1080 / 1280×1024 / 1024×768 VGA x1 : 1920×1080 / 1280×1024 / 1024×768 BNC x1 : CVBS (Used as the main or spot output)
	Compression	H.264 / H.265
Audio	Input	RCA x1
	Output	RCA x1 (Linear, 600Ω)
	Two-Way Audio	Take up channel one audio input
	Compression	G.711(U/A)
Record	Resolution	4K / 4K Lite / 5MP / 5MP Lite / 4MP / 4MP Lite / 3MP / 1080p / 720p / WD1 / D1
	Frame Rate	Analogue Channel: 4K @ 6/7fps (PAL / NTSC), 4K Lite @ 12fps/15fps (PAL / NTSC), 5MP @ 12fps (PAL / NTSC), 5MP Lite @ 20fps (PAL / NTSC) 4MP/3MP @ 12fps(PAL) / 15fps (NTSC), 4MP Lite/1080p/720p/WD1 @ 25fps (PAL) / 30fps (NTSC)
		IP Channel: 25fps (PAL) / 30fps (NTSC)
	Bit Rate	32Kbps ~ 5Mbps
	Mode	Manual, Timer, Motion, Smart Event
Mobile Device	OS	iOS, Android
Storage	HDD	SATA x2, Up to 8TB per HDD
Playback	Playback	16CH
	Search	Time Slice / Time / Event / Tag Search
	Smart Search	Highlight colours to display the camera record in a certain period of time, different colours refer to different record events
	Function	Play, Pause, FF, FB, Digital Zoom, etc.
Alarm	Mode	Manual, Motion, Exception, Smart Event
	Input	No
	Output	No
Network	Interface	RJ45 1000Mbps x 1
	Protocol	TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, HTTP, HTTPs, NTP, SMTP
	Incoming Bandwidth	32Mbps (Max. 64Mbps)
	Outgoing Bandwidth	96Mbps
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	Yes (Half-duplex), Connect to PTZ or Keyboard
	USB	USB 2.0 × 2
	Remote Controller	Optional
Others	Power Supply	DC12V / 4A
	Consumption	≤30W (Without HDD)
	Working Environment	-10~50°C, 10%~90% (Humidity)
	Dimensions	380 × 268 × 45 mm

2.0 HDD Installation

This series of the product supports 2 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 the screws into the holes of the HDD but don't tighten them.
3. Put the HDD's onto the bottom of the machine.
4. Turn over the machine and secure the HDD's with the screws.
5. Connect the power and data cables.



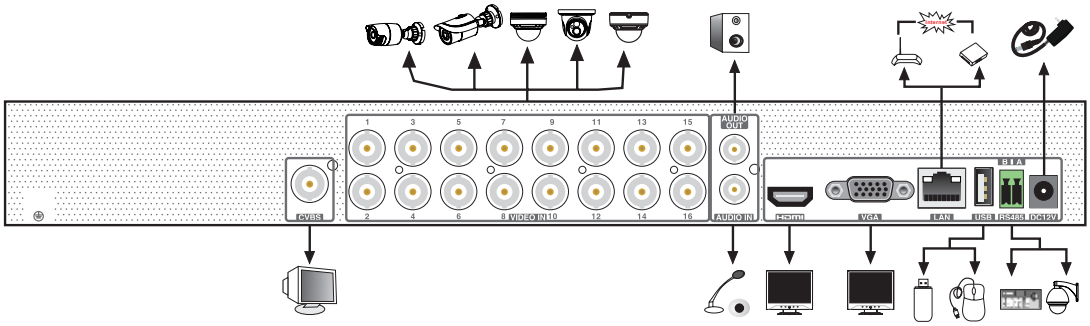


6. Install back the cover and secure it with the screws.

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
VIDEO IN	Video input
CVBS	CVBS output
AUDIO OUT	Audio output
AUDIO IN	Audio input
HDMI	Connect to high definition display device
VGA	Connect to monitor
LAN	Network port
USB	Connect to USB storage devices or USB mouse
RS485	Connect to keyboard or speed dome. A is TX+,B is TX
DC12V	Power input

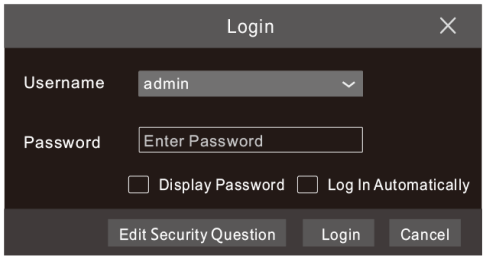
Startup

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

Click "Start" 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



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 Ananlogue Camera Connection

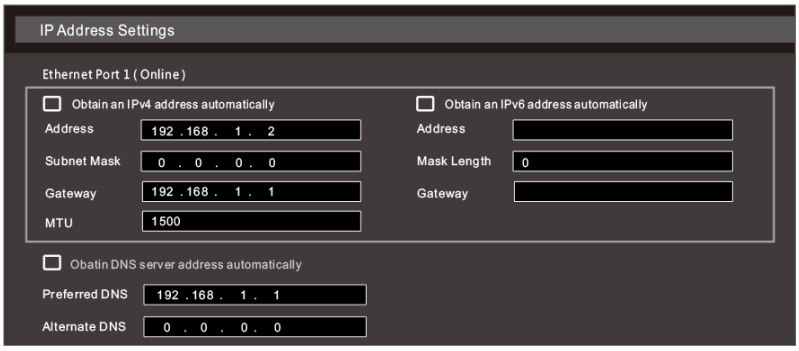
First connect the camera to the DVR.
Then go to Start → Settings → Camera→ Manage Camera → Camera Signal to checkmark the video mode. Theactual signals input shall correspond to the video mode. Please refer to the User Manual for details.

6.2 Network Configuration & Adding IP Camera

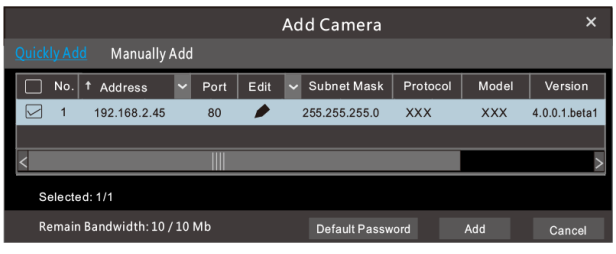
After you finish adding IP cameras, you can see the live images through the monitor of the DVR. The following will mainly introduce how to add the IP cameras via LAN/WAN.

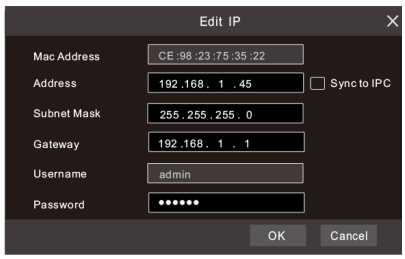
LAN

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.

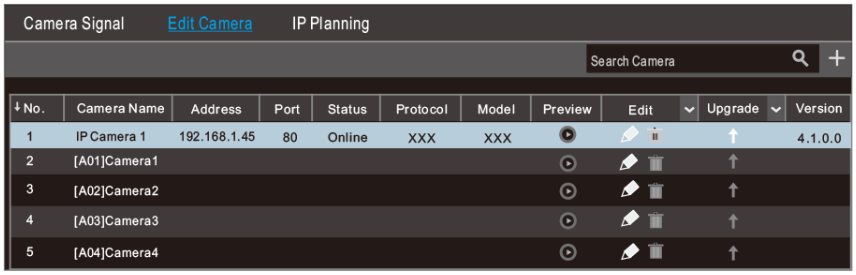


4. Go to Start → Settings → Camera → Add Camera. The DVR will automatically refresh the cameras searched. The IPC which supports the Onvif protocol may be added manually. If the IPC searched is not in the same local network as the DVR, you should select the device and click  to modify the IP address.





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.



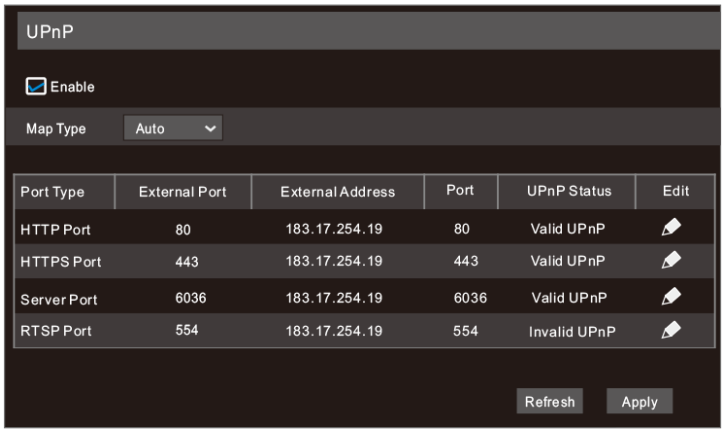
WAN

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".

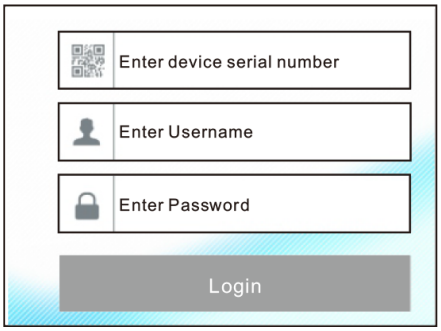


NAT Settings

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.

9.1 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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