

4 & 8 Channel 5-in-1 8MP Hybrid DVR's with 1HDD Bay

WAHD841 | WAHD881



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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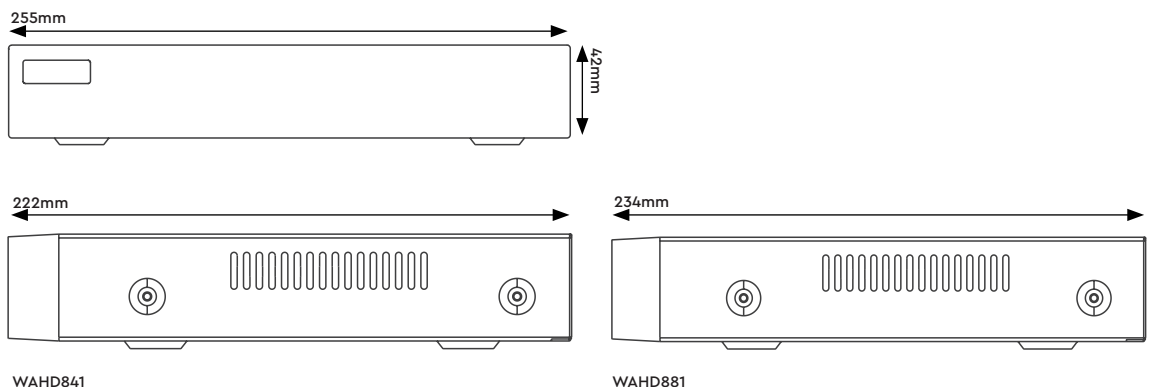
1.0 Introduction

The Genie WAHD841 and WAHD881 are 4 and 8 channel 8MP, 5MP, 4MP, 3MP, 1080P, 720P and WD1 high definition DVR's with the ability to connect analogue and IP cameras simultaneously and adopts the standard H.265 high profile compression format. The WAHD841 supports 4 channel video input, 1 channel audio input and 4 channel simultaneous playback whilst the WAHD881 supports 8 channel video input, 1 channel audio input and 8 channel simultaneous playback.

1.1 Product Features

- 4 and 8 channel TVI / AHD / CVI 8MP, 5MP, 4MP, 3MP, 1080p, 720p and WD1 video input
- 4 and 8 channel DVR support. 2 and 8 channel 8MP, 5MP, 4MP, 3MP, 1080p, 720p and WD1 IP input by default
- Adopt 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).
- Search: Time Slice, Time, Event, Tag and Smart Search
- Simultaneous multi-user online
- Multi-mode recording: Manual / Timer / Motion / Smart Event Playback : 4 and 8 channel simultaneous playback
- Express and flexible backup via USB and Network
- Pentaplex: Preview, Record, Playback, Backup and Remote Access
- DHCP, DDNS, PPPoE network protocol
- Remote control via IE 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
- HDMI 4K output, true high resolution display
- Authorisation management, log review and device status review
- Support PTZ preset and auto cruise, up to 255 presets and 8 cruises
- Support NAT function and QR Code scanning by mobile phones
- Powerful mobile surveillance by smart phones with iOS and Android OS

1.2 Product Dimensions



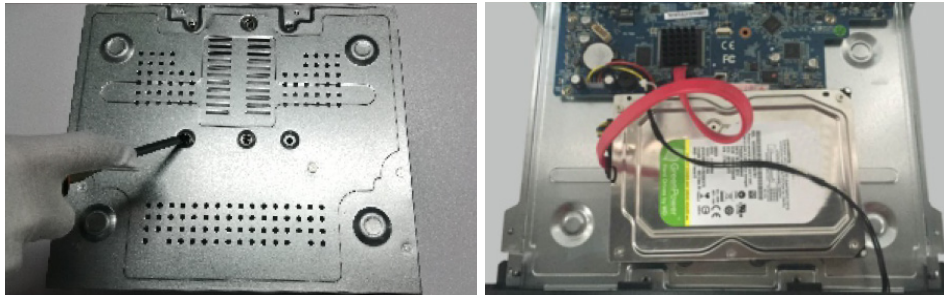
1.3 Specification

	Model	WAHD841	WAHD881
System	OS	Embedded Linux	
Video	Analogue Video Input	BNC x4 BNC interface (1.0Vp-p, 75Ω)	BNC x8
	IP Video Input	2CH (Up to 6CH) Up to 8MP @ 30fps	8CH (Up to 16CH)
	Total Input	6CH	16CH
	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) (4 CH DVR: only CH 1 supports, 8CH DVR: all channels support) 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 / D1 @ 25fps (PAL) / 30fps (NTSC) IP Channel: 25fps (PAL) / 30fps (NTSC)	
	Bit Rate	32Kbps ~ 4Mbps	32Kbps ~ 5Mbps
	Mode	Manual, Timer, Motion, Smart Event	
Mobile Device	OS	iOS, Android	
Storage	HDD	SATA x1, Up to 6TB per HDD	SATA x1, Up to 8TB per HDD
Playback	Playback	4CH	8CH
	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 100Mbps x 1	
	Protocol	TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, HTTP, HTTPS, NTP, SMTP	
	Incoming Bandwidth	16Mbps (Max. 40Mbps)	32Mbps (Max. 64Mbps)
	Outgoing Bandwidth	40Mbps	80Mbps
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 x1, Connect to PTZ or keyboard	
	USB	USB 2.0 x2	
	Remote Controller	Optional	
Others	Power Supply	DC12V / 1.5A	DC12V / 2A
	Consumption	≤ 10W (Without HDD)	≤ 15W (Without HDD)
	Working Environment	-10~50°C, 10%~90% (Humidity)	
	Dimensions	255 × 222 × 42 mm	255 × 234 × 42 mm

2.0 HDD Installation

This series of the product supports 1 SATA hard drive. Please make sure that the device is powered off before the installation. The pictures of the installation are for reference only.

1. Loosen the screws to open the cover.
2. Place the HDD onto the bottom of the machine.
3. Turn over the machine and secure the HDD with the screws.
4. Connect the power and data cables.

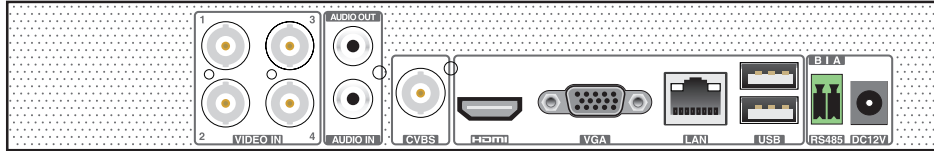


5. Install back the cover and secure it with the screws.

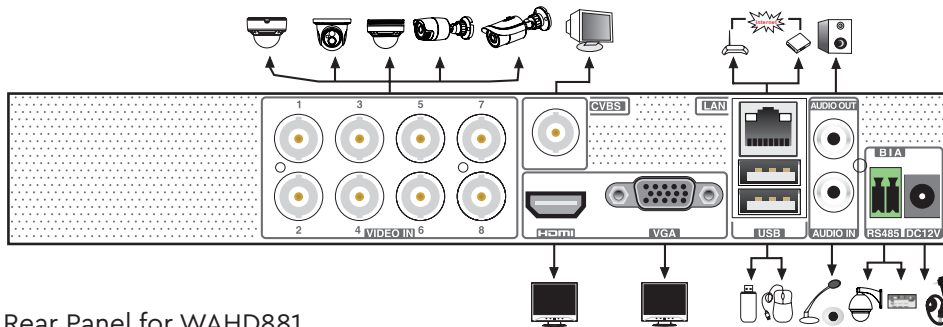
Note: Please check the inside structure of the device and make sure that the cables are connected well before installing the cover back. Please format the HDD before using.

3.0 Rear Panel Instruction

The interfaces of the rear panel are for reference only.



Rear panel for WAHD841



Rear Panel for WAHD881

Name	Description
VIDEO IN	Video input
VGA	Connect to monitor
CVBS	CVBS output
HDMI	HDMI connector; connect to monitor
LAN	Network connector
USB	Connect to USB storage devices or USB mouses
AUDIO IN	Audio input
AUDIO OUT	Audio output
RS485	Connect to keyboard or speed dome. A is TX+,B is TX
DC12V	Power input

4.0 Start Up and Shut Down

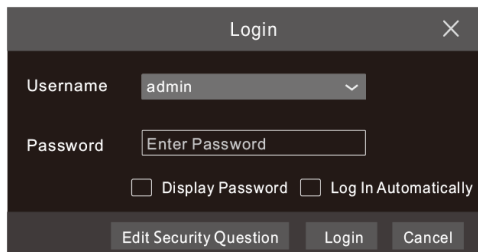
Startup

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

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



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.

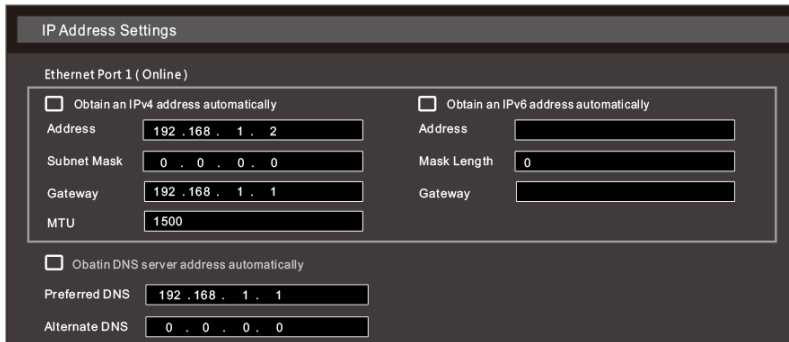
Then go to Start → Settings → Camera → Manage Camera → Camera Signal to checkmark the video mode. The actual signals input shall correspond to the video mode. Please refer to the User Manual for details.


6.2 Network Configuration & Adding IP Camera

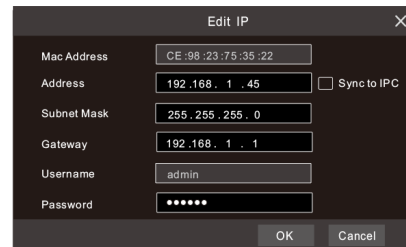
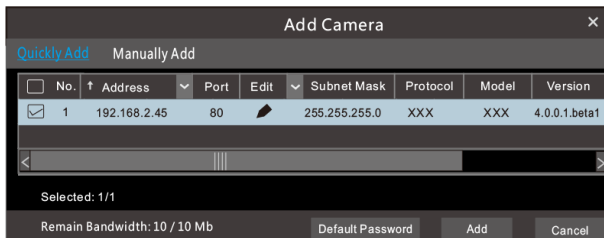
After you finish adding IP cameras, you can see the live images through the monitor of the DVR. The following will mainly introduce how to add the IP cameras via LAN/WAN.


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.



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.

Camera Signal Edit Camera IP Planning										
Search Camera <input type="text"/>  										
↓ 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

Address Sync to IPC

Port


Protocol

Model

Username


Password

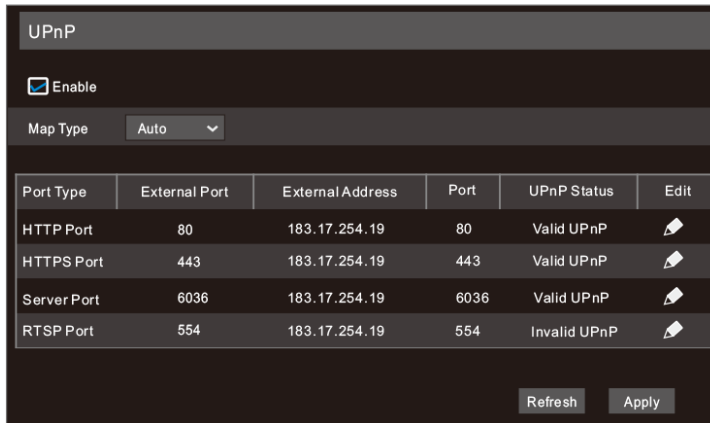
WAN





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.

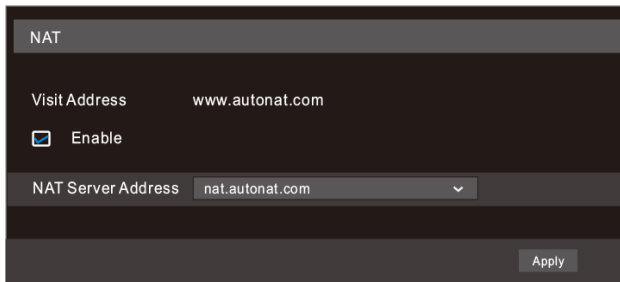
1. Go to Start → Settings → Network → UPnP, and enable UPnP and then click "Apply" button to save.
2. Enable the UPnP function in the router.
3. Click "Refresh" button to refresh the UPnP status. If the UPnP status were still "Invalid UPnP" after refreshing it for several times, the port would be wrong.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



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	

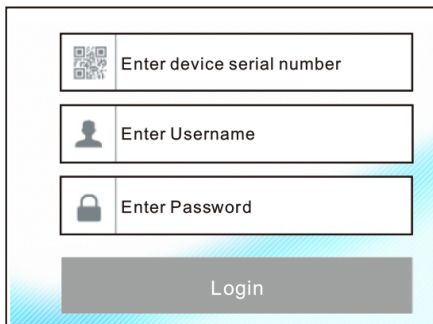
NAT Settings

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.





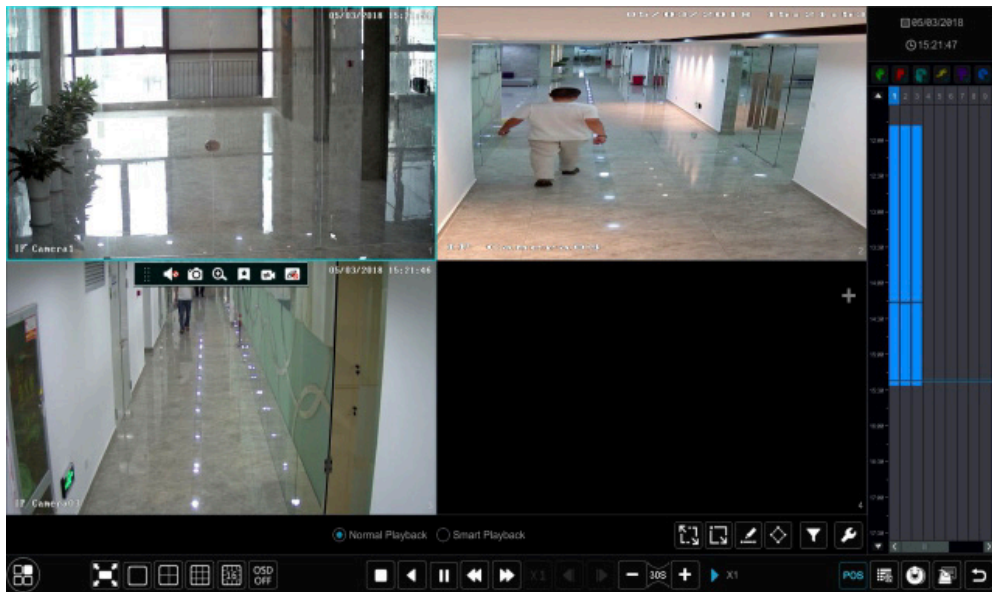
9.2 Playback

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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