4 Channel 5-in-1 High Definition 1080p DVR with 1HDD Bay and Alarms

WAHDN241A

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.

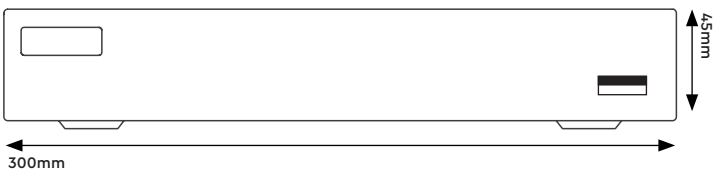
Contents

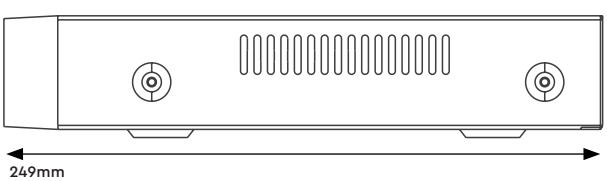
The Genie WAHDN241A is a 5-in-1 DVR compatible with AHD, TVI, CVI, CVBS and IP cameras available in 4 channel formats. It has the ability to connect to analogue and IP cameras simultaneously and encode the video streams using the H.265 high profile compression format which gives longer recording times compared to H.264 encoding. Real-time recording is achievable up to 1080p video with supporting resolution up to 5MP in AHD, TVI and IP. It is a highly versatile cost effective solution suitable for many CCTV applications.

1.1 Product Features

- 4CH TVI/AHD/CVI 5MP/4MP 1080p/720p/WD1 video input
- 4CH DVR's default support 2CH 5MP/4MP/3MP/1080p/960p/720p IP video input
- 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
- Multi-mode recording: Manual/Timer/Motion
- Playback : 4CH simultaneous playback
- Multi-user online simultaneously
- Search: Time Slice, Time, Event (Manual, Motion), Tag Search
- Express and flexible backup via USB, Network and so on
- Pentaplex: Preview, Record, Playback, Backup and Remote Access
- DHCP, DDNS, PPPoE Network Protocol
- Remote control via Web Client or CMS: Preview, Playback, Backup, PTZ and Configuration
- Support PTZ preset and auto cruise, up to 255 presets and 8 cruises
- Dual stream technology for local storage with high definition, remote network transmission and remote surveillance with mobile device
- Authorisation management, log review and device status review
- 1080p output, true high resolution display
- Support NAT function and QR code scanning by mobile phones
- Powerful mobile surveillance by smart phones with iOS and Android OS
- P2P ready for hassle free remote access
- NDAA compliant

1.2 Product Dimensions





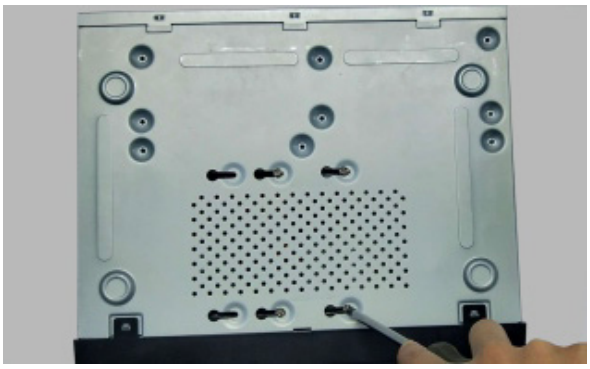
1.3 Specification

Model		WAHD241A
System	OS	Embedded Linux
Video	Analogue Video Input	BNC x4
		BNC interface (1.0Vp-p, 75Ω)
	IP Video Input	2CH (Up to 6CH)
		Up to 5MP @ 25fps/4MP @ 30fps
	Total Input	6CH
	Output	HDMI x1 : 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 x4
	Output	RCA x1 (Linear, 600Ω)
	Two-Way Audio	Take up channel one audio input
	Compression	G.711(U/A)
Record	Resolution	5MP Lite / 4MP Lite / 1080p / 1080p Lite / 720p / WD1 / D1
	Frame Rate	Analogue Channel: 5MP Lite @ 10fps (PAL / NTSC), 4MP Lite / 1080P @ 12fps (PAL) / 15fps (NTSC), 1080P Lite / 720P / WD1 / D1 @ 25fps (PAL) / 30fps (NTSC) IP Channel: 25fps (PAL) / 30fps (NTSC)
	Bit Rate	32Kbps ~ 4Mbps
	Mode	Manual, Timer, Motion, Smart Event
Mobile Device	OS	iOS, Android
Storage	HDD	SATA x1, Up to 8TB HDD
Playback	Playback	4CH
	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	4CH
	Output	1CH
Network	Interface	RJ45 1000Mbps x 1
	Protocol	TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, HTTP, HTTPs, NTP, SMTP
	Incoming Bandwidth	16Mbps (Max. 36Mbps)
	Outgoing Bandwidth	40Mbps
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	U disk, 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 / 2A
	Consumption	≤10W (Without HDD)
	Working Environment	-10~50°C, 10%~90% (Humidity)
	Dimensions	300 × 249 × 45 mm

2.0 HDD Installation

This 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. Screw the screws into the HDD but do not tighten them.
3. Place the HDD onto the bottom of the machine.
4. Turn over the machine and secure the HDD with the screws.
5. Connect the power and data cables.

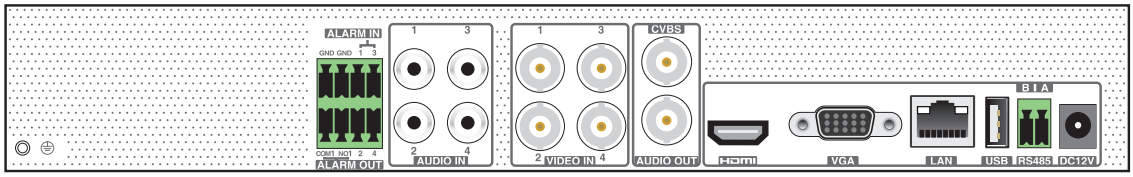


6. Install back the cover and secure it with the screws.

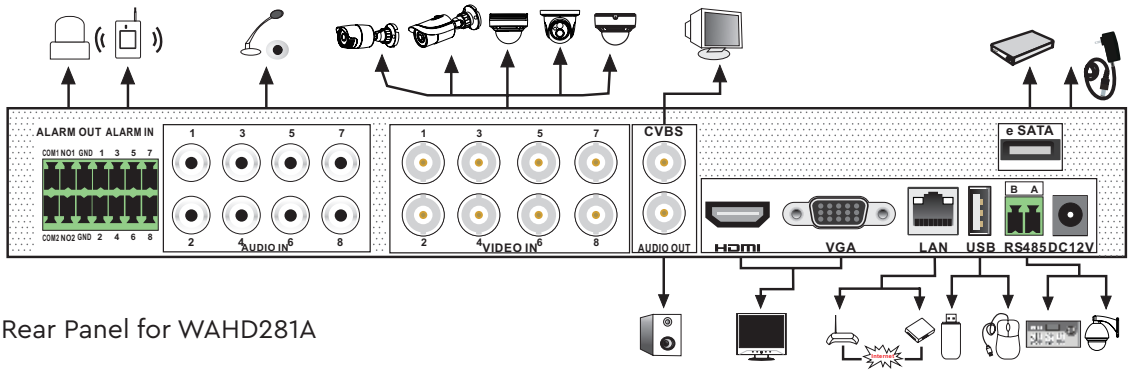
Note: Please check the inside structure of the device and make sure that the cables are connected well before installing the cover back. Please format the HDD before using.

3.0 Rear Panel Instruction

The interfaces of the rear panel are for reference only.



Rear panel for WAHD241A



Rear Panel for WAHD281A

Name	Description
ALARM OUT	Relay output, connect to external alarm
ALARM IN	Alarm input for connecting sensors
GND	Ground
AUDIO IN	Audio input
VIDEO IN	Video input
CVBS	CVBS output
AUDIO OUT	Audio output
HDMI	Connect to high definition display device
VGA	Connect to monitor
LAN	Ethernet connector
USB	Connector for USB devices
e-SATA	Connector for e-SATA
RS485	Connector for RS485 devices. A is TX+,B is TX
DC12V	Power input

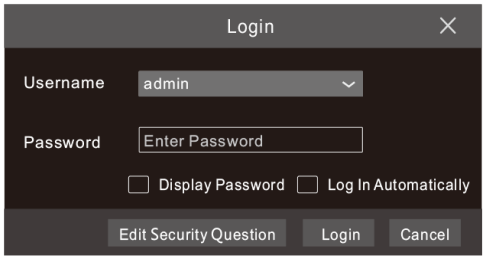
Startup

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

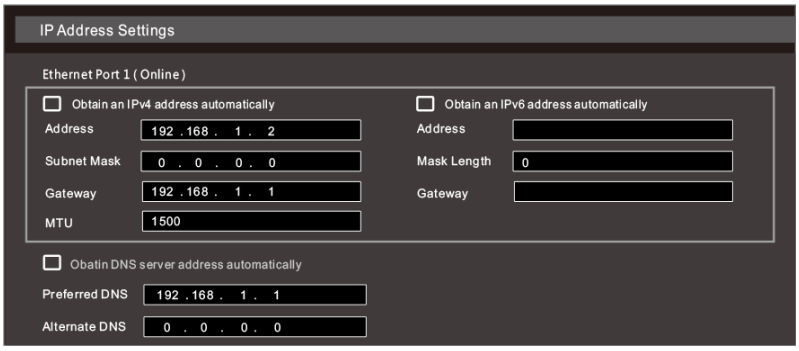
First connect the camera to the DVR.
Then go to Start → Settings → Camera→ Manage Camera → Camera Signal to checkmark the video mode. Theactual signals input shall correspond to the video mode. Please refer to the User Manual for details.

6.2 Network Configuration & Adding IP Camera

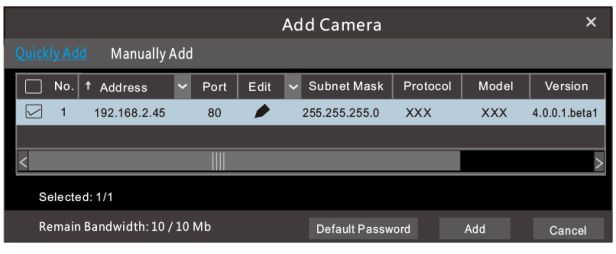
After you finish adding IP cameras, you can see the live images through the monitor of the DVR. The following will mainly introduce how to add the IP cameras via LAN/WAN.

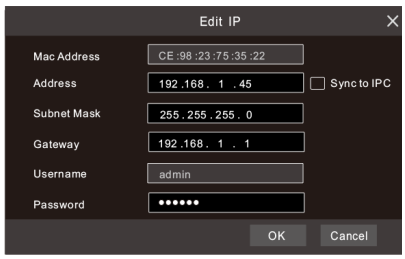
LAN

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.

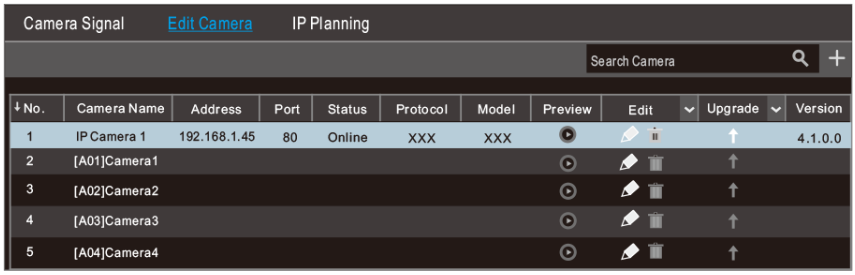


4. Go to Start → Settings → Camera → Add Camera. The DVR will automatically refresh the cameras searched. The IPC which supports the Onvif protocol may be added manually. If the IPC searched is not in the same local network as the DVR, you should select the device and click  to modify the IP address.





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.



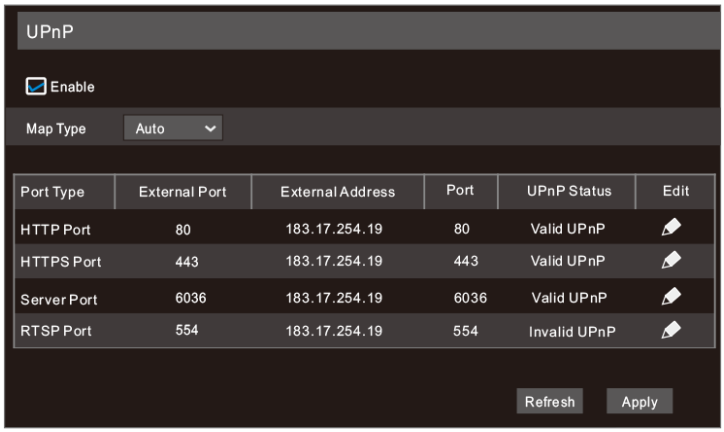
WAN

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".

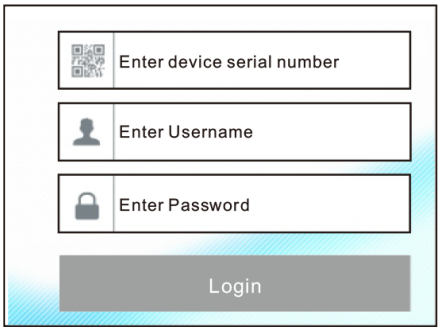


NAT Settings

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.

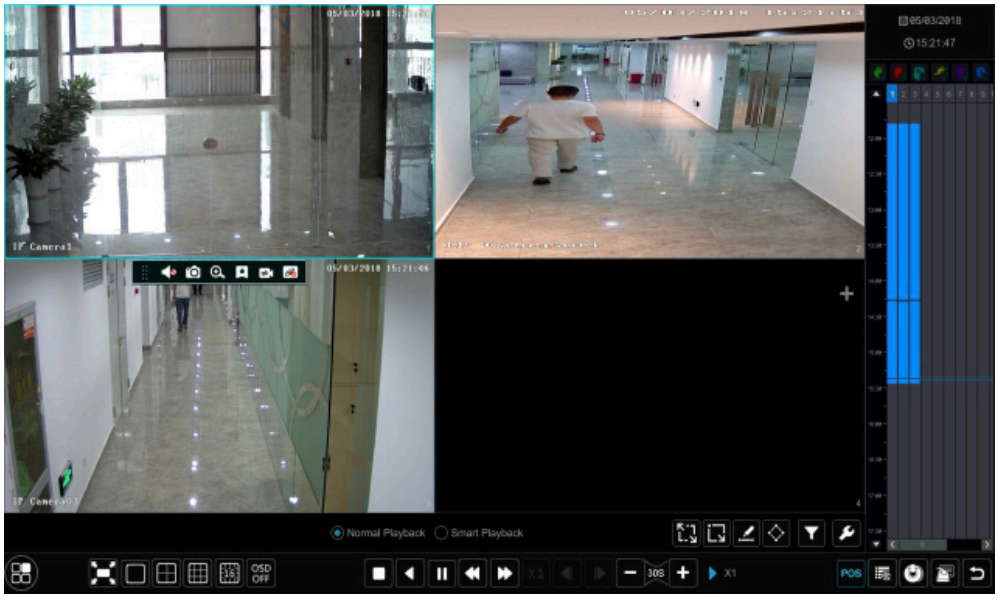
9.2 Playback

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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