

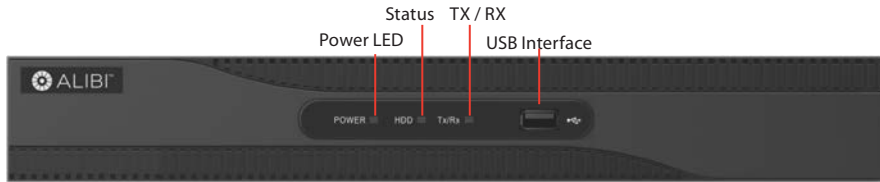
ALIBI™ ALI-QVR4000H Series 8/16-Channel AHD, HD-TVI, Analog and IP Camera Recorder Quick Setup Guide

This guide provides instructions to initially setup the ALI-QVR4000H series digital video recorder (DVR) for AHD, HD-TVI, Analog and IP cameras. For information about using your DVR and its extensive capabilities, refer to the **ALIBI Embedded Network Video Recorder Firmware V3.4.x User Manual** provided at www.alibisecurity.com/resources.

For more information, refer to these documents – available from your equipment vendor:

- **ALIBI™ Tools Utility Installation and User Manual**
- **ALIBI™ Witness Smartphone App - Quick Start Guide**

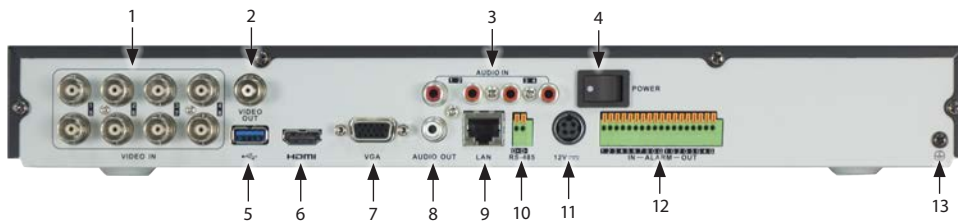
DVR Front Panel



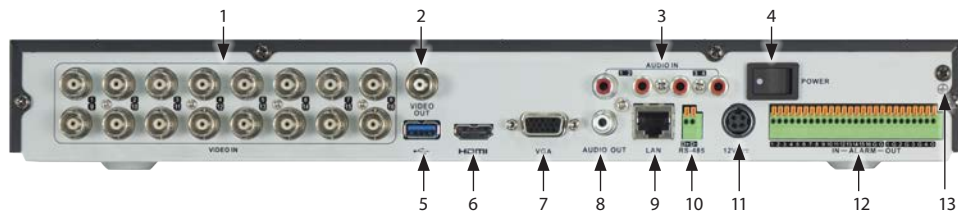
ALI-QVR4008H, ALI-QVR4016H front panel

Item	Usage
Power LED	Indicator turns green when DVR is powered up.
Status	STATUS indicator lights in red when HDD is reading / writing.
TX / RX	LED indicator blinks green when network connection is functioning properly.
USB Interface	This port can be used for a USB mouse or USB flash memory devices.

DVR Back panels



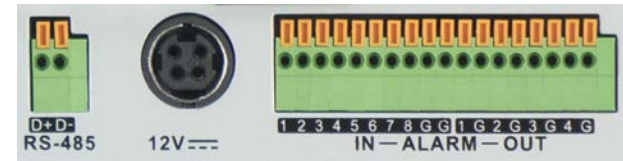
ALI-QVR4008H backpanel



ALI-QVR4016H backpanel

	Item	Description
1	VIDEO IN	BNC connectors for camera video channels in. Number of channels is dependent on the model of the DVR.
2	VIDEO OUT	CVBS
3	AUDIO IN	RCA connector for audio in cable.
4	ON / OFF switch	Switch for powering the DVR on and off
5	USB	Use for a USB mouse or USB memory device such as a flash drive or DVD burner. A USB port is also located on the front panel.
6	HDMI	Connector HDMI monitor cable.
7	VGA	Connector VGA monitor cable.
8	AUDIO OUT	RCA connector for audio out cable.
9	LAN	RJ-45 connector for Ethernet drop cable.
10	RS-485 terminations	Connector for RS-485 devices. Connect the D+ and D- terminals to T+ and T- of PTZ receiver respectively.
11	12 Vdc	Plug for 12 Vdc power adapter (provided).
12	Alarm terminations	See Alarm terminations below.
13	GND terminal	Ground terminal post.

Alarm terminations



Item	Description
RS-485 (D+, D-)	D+ and D- pins connect to R+ and R- pins of PTZ receiver respectively. For cascading devices, the first DVR's D+, D- pin should be connected with the D+, D- pin of the next DVR.
ALARM IN	Alarm inputs (ALI-QVR4008H: 1 .. 8, ALI-QVR4016H: 1 .. 16). Alarm input is tied to ground through the alarm sensor. See "Step 3. Connect alarm devices to the DVR" on page 2.
ALARM OUT (1-G through 4-G)	Alarm outputs 1 - 4 with ground terminations. See "Step 3. Connect alarm devices to the DVR" on page 2.

Mouse control

A standard 3-button (left / right / scroll-wheel) USB mouse can also be used with this DVR. To use a USB mouse:

1. Plug the USB mouse into the either the front panel or back panel USB connector of the DVR.
2. The mouse will be automatically detected. If the mouse is not detected, the mouse may not be compatible with the DVR. Please refer to the recommended device list from your provider.

Using the mouse

Action	Effect
Left click	Single click: Live view: Select channel and show the quick set menu. Menu: Select and enter.
	Double click: Live view: Switch between single-screen and multi-screen.
	Click and drag: PTZ control: pan, tilt and zoom. Tamper-proof, privacy mask and motion detection: Select target area. Digital zoom-in: Drag and select target area. Live view: Drag channel / time bar
Right click	Live view: Show menu. Menu: Exit current menu to upper level menu.
Scroll wheel	Scroll up: Live view: Previous screen. Menu: Previous item.
	Scroll down: Live view: Next screen. Menu: Next item.

Installing the System

Step 1. Getting Started: Unpacking the Equipment

What's in the box

Your system includes:

- ALI-QVR4000H Series DVR
- USB mouse
- HDMI cable
- Power adapter for DVR
- This Quick Start Guide

Remove the equipment from its packaging and place it on a flat, clean surface. Inspect each item. If any visible damage is present, contact your supplier for a replacement. Verify that your order is complete.

What you need

Although each security system installation is different, most require the following items not included with your system components:

- Cameras and cables compatible with the DVR. The Video in ports on the back panel support most analog CCTV camera brands and Alibi HD-TVI, AHD, analog or IP cameras
- IP cameras installed on the Ethernet network (LAN) that associated with the DVR must be Alibi IP cameras.
- Tools to install the cameras and route power and video cables
- Fasteners to attach the cameras to the mounting surfaces
- VGA or HDMI compatible computer monitor to connect to the DVR. (An HDMI cable is provided.)
- Uninterruptible power supply (UPS) is recommended. This device is used to ensure system stability during voltage surges, sags, and outages. If a UPS is not available, a power strip with strong surge protection is highly recommended.

Step 2. Install the DVR

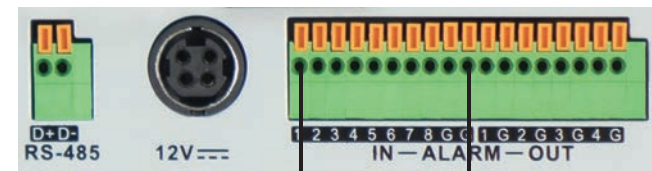
For the following steps, refer to the back panel photo above for the location of connectors.

1. Place the DVR in a location that is secure, well ventilated and clean. The DVR should be positioned such that the back panel connectors are accessible and the ventilation holes on the sides are not blocked.
2. Connect the ground terminal on the back of the DVR to an earth ground. Refer to local codes for proper grounding.

Step 3. Connect alarm devices to the DVR

Wiring alarm inputs to the DVR

You can wire up to 8 alarm inputs to the DVR. Alarm input wiring connects to the RS-485, Alarm IN / OUT connector blocks on the back of the DVR.



Alarm In sensor (N.O. or N.C.)

Typical ALARM IN wiring

Wiring alarm outputs to the DVR

The DVR provides 4 alarm output terminations. These terminations for each output are on the ALARM OUT connector block on the back of the DVR, and are labeled 1 - G, 2 - G, 3 - G, 4 - G (G = ground termination).

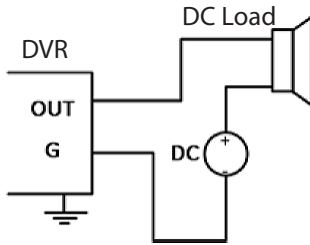
There are 4 jumpers (JP1, JP2, JP3, and JP4) inside the chassis on the alarm termination PC board, associated with ALARM OUT pins 1, 2, 3 and 4 respectively. Initially, these jumpers are in place. If connecting an alarm output to a DC loaded alarm out circuit, the jumper must be in place. If connecting the alarm output to an AC loaded alarm, the corresponding jumper must be removed. Example: If you connect an AC load to the alarm output 3 of the DVR, then you must remove the JP 3.

To remove a jumper for AC load alarm circuits:

1. Disconnect all cabling from the DVR.
2. Remove the DVR top cover: Remove the two cover screws on the back of the chassis, the slide the cover toward the back until it is free.
3. Locate the jumper associated with the alarm output you are using for an AC load alarm, then remove it. Save the jumper for use later, if needed.
4. Reinstall the DVR top cover.

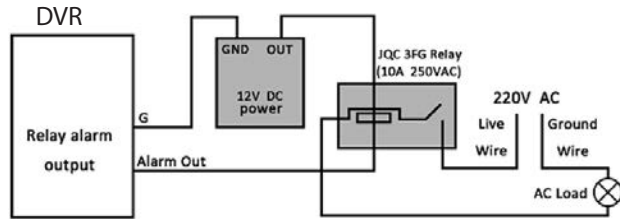
DC load alarm output circuits

DC loads must operate within the limitation of 12V / 1A. To connect to a DC alarm output, use the following diagram:



AC load alarm output circuits

To connect an AC load to an alarm output, a jumper, associated with the output on the alarm termination PC board, (within the chassis), must be removed. These jumpers shunt pin pairs J1, J2, J3, and J4 for alarm outputs 1, 2, 3, 4 respectively. Use an external relay for safety.



Step 4. Install a monitor, mouse, power

For the following steps, refer to the back panel photo above for the location of connectors.

1. Install and setup your monitor in accordance with the instructions provided with the monitor. Do not power it on at this time.
2. Cable the HDMI or VGA connector to your monitor's VGA or HDMI input. The HDMI interface provides the best performance.
3. Plug the mouse into the USB connector on the front or back of the DVR.
4. If you plan to access your DVR remotely, or configure your DVR to transmit alerts, email, etc. to external servers, plug a drop cable from your local area network (LAN) into the RJ45 LAN connector on the back of the DVR.
5. Connect the power cord to the power connector on the back panel of the DVR, and then into a UPS (recommended) or surge protector.

Step 5. Install cameras

Install your security cameras. Always follow the installation instructions provided with the camera.

Step 6. Connecting it together – initial system setup

1. Plug the coaxial cables from the cameras into the BNC camera input connectors on the back of the DVR.

2. Power on your cameras.
3. Power on the DVR using the power on / off (I / O) switch on the back panel.
4. Power on the monitor.

NOTE

Some monitors have multiple inputs such including VGA ,HDMI ,BNC, etc. If you are using this kind of monitor, configure your monitor to display the input connected to your DVR (HDMI or VGA).

Step 7. Using the Wizard for basic configuration setup

Power on the DVR. Normally, an Alibi logo splash screen appears within 2 minutes.



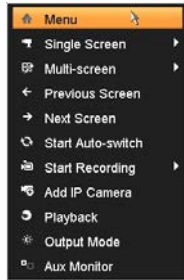
By default, the Setup Wizard will open automatically. Refer to the **ALIBI Embedded Network Video Recorder Firmware V3.4.x User Manual** for incomplete instructions for using the Wizard and configuring and using your DVR.

Important Notes for using the Wizard:

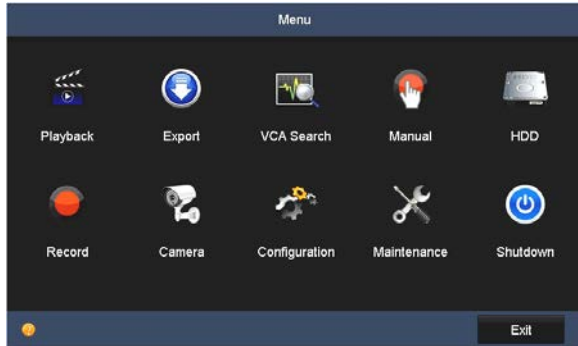
- **Password:** When logging into the recorder for the first time, create a “**Strong**” administrator user password. Follow the on-screen instructions, and save this password and the GUID file created by the firmware in a secure location. **NOTE:** There is no factory default password for this device.
- **Date and Time:** Set the time zone, date and time correctly. All recorded video and capture (photo) files are time stamped.
- **Storage - HDD:** In the HDD Management wizard, if a new recorder is shipped with a pre-configured HDD, nothing needs to be done with it in this window. If you installed an HDD or replaced the HDD, that HDD needs to be initialized by the recorder before it can be used to record data. Select (check the box for) that HDD, then click **Init** to initialize the disk. **NOTE: Init** will erase all data from the disk and can take several minutes to complete. When the initialization is complete, click **Next** to continue.
- **Network Settings:** By default, the recorder acquires it's network settings using DHCP (dynamic network settings). Depending on the configuration of the network, these settings may change. To improve remote access to the recorder, Observint recommends that you configure the DVR with fixed network settings. To easily change the DHCP acquired network settings to fixed network settings, un-check the **Enable DHCP** option in the network setup menu, and then click **Apply**.

Step 8. Access the Menu system

After the initial setup of your QVR using the Wizard, the Menu interface enables you to refine your configuration settings and expand the functionality of the system. To use most menus, the user must log into the NVR system, either locally or remotely, with administrative privileges. To open the Menu system from the Live View screen, right click anywhere in the screen, then select **Menu**.



If ID Authentication is not disabled (see the **Menu | Configuration | General** settings), a login window will open. In the Login window, select a User Name with administrative privileges, enter its password, then click **OK**. A window of **Menu** icons will open.



For additional information about using your system, refer to the **ALIBI Embedded Network Video Recorder Firmware V3.4.x User Manual**.

Specifications

Model	ALI-QVR4008H	ALI-QVR4016H
Video compression	H.264 OVC / H.264	
Video input	8-ch	16-ch
	BNC interface (1.0Vp-p, 75 Ω), supporting coaxitron connection	
Supported HDTV input	1080p / 25Hz, 1080p / 30Hz, 720p / 25Hz, 720p / 30Hz, 720P / 50Hz, 720p / 60Hz, 3MP, 5MP	
Supported AHD input	720p / 25Hz, 720p / 30Hz	
CVBS input	Support	
IP video input	2-ch, up to 4.0 MP resolution	
Audio compression	G.711u	
Audio input	4-ch, RCA (2.0 Vp-p, 1 KΩ)	

Model	ALI-QVR4008H	ALI-QVR4016H
CVBS output	Support	
HDMI / VGA output	VGA: 1-ch, 1920 × 1080 / 60Hz, 1280 × 1024 / 60Hz, 1280 × 720 / 60Hz, 1024 × 768 / 60 Hz	
	HDMI: 1-ch, 4K (3840 × 2160) / 30Hz, 2K (2560 × 1440) / 60Hz, 1920 × 1080 / 60Hz, 1280 × 1024 / 60Hz, 1280 × 720 / 60Hz, 1024 × 768 / 60Hz	
Encoding resolution	5MP@12fps / 3MP@15fps / 1080p / 720p / 960H / 4CIF / VGA / CIF	
Frame rate	Main stream: 25 fps (P) / 30 fps (N)	
	Sub-stream: 960H / 4CIF@12fps (non-real-time); CIF / QVGA / QCIF (real time)	
Video bitrate	32 Kbps to 10 Mbps	
Audio output	1-ch, RCA (Linear, 1 KΩ)	
Audio bit rate	64 Kbps	
Dual-stream	Support	
Stream type	Video, Video and Audio	
Synchronous playback	8-ch	16-ch
Remote connections	128	
Network protocols	TCP / IP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF	
SATA	2 SATA interfaces (2 HDDs max)	
Capacity	Up to 6TB capacity per HDD	
Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the audio input)	
Network interface	1 × RJ45 10M / 100M / 1000M self-adaptive Ethernet interface	
USB interface	2 × USB 2.0	
Serial interface	1 × RS-485 serial interface, half-duplex	
Alarm in / out	8 / 4	16 / 4
Power supply	12 Vdc	
Consumption (without HDD)	≤ 20W	
Working temperature	14 °F to 131 °F (-10 °C to +55 °C)	
Working humidity	10% to 90%	
Dimensions (W × D × H)	15.0 × 12.6 × 1.9 in (380 × 320 × 48 mm)	
Weight (without HDD)	≤ 2 kg (4.4 lb)	