

Cloud-Optimized Video Archiving

4-channel NVR	8-channel NVR	16-channel NVR	
DW-COVA4	DW-COVA8	DW-COVA16	



User's Manual ver. 05/24

Before installing and using the camera, please read this manual carefully. Be sure to keep it handy for future reference.



Read Before System Operation. Follow these details to prevent material damage or personal injury.

Signs of Caution and Warning



Warning: This sign indicates that the user could die or be seriously wounded if not used or installed properly.



Caution: This sign indicates that the user could be injured or expect property damage if not used or installed properly.



Warning: Do not expose the product to fog, rain, or too much humidity to decrease the danger of electric shock or fire.

General Warning



$\stackrel{/!}{\square}$ Warning

- 1. Use the power cord, which is supplied or recommended by the supplier, or it may cause a fire.
- 2. Do not disassemble or reassemble the product. It may cause a malfunction or fire.
- 3. Enquire with your vendor about the repair. It may cause an electric shock or fire if the repair is improper.
- 4. Do not touch the product with wet hands. It may cause a malfunction or an electric shock.
- 5. A professional must ensure product installation, or it may cause malfunction, electric shock, or fire.
- 6. Ground applies to video products equipped with a 3-wire grounding-type plug having a third (grounding) pin. This plug only fits into a grounding-type power outlet. If grounding is not done, it may cause a malfunction or an electric shock.
- 7. Ground connection must not touch gas, water pipes, or telephone lines. If grounding is not done properly, it may cause an electric shock.
- 8. Prevent metallic foreign objects from going inside the product. It may cause a malfunction or an electric shock.
- 9. Do not spray insecticide or flammable spray while driving. It may cause a fire.
- 10. Place the system in an open place where air ventilation is guaranteed, or it may overheat and cause considerable damage to the system.
- 11. Prevent water from entering electrical parts. Clean with a dry towel or malfunction to avoid an electric shock during cleaning.



🔼 Caution

- 1. Use the power cord supplied or recommended by the supplier. The internal fan rotates at high speed and may cause an accident.
- 2. Do not drop, give strong vibration, or shock the product. It may cause a malfunction.
- 3. The air intake in the front panel and the air vent in the back panel must not be blocked during installation.
- The product's internal temperature would be greater than allowable and could cause malfunction or fire.
- 4. Do not touch the product or the power cord when thunder strikes. It may cause an electric shock.
- 5. Do not install the product near the heating source. The product's internal temperature would be greater than allowable and could cause malfunction
- 6. Do not install the product in an inclined or unstable location or where vibration could be caused. It may cause a malfunction.

Cautions about Power



✓! Warning

- 1. Must use the grounding outlet to connect the power cord, or it may cause a fire.
- 2. Do not connect in the middle of the power cord or use an extension cord. It may generate heat or cause a fire.
- 3. Do not touch the power cord with wet hands. It may cause an electric shock.
- 4. Keep the power cord dry and protect it from humidity. It may generate heat or cause a fire. The power cord is not waterproof.
- 5. Hold the body of the plug while removing the power. Do not pull the power cord. Damage to the power cord may cause overheating or a fire.
- 6. Check the power plug regularly. Humidity and moderation in smoking may cause a fire.
- 7. Remove the power cord from the outlet when the product is not used for a long time. It may cause a short-circuit or an electric shock.



∠!\ Caution

- 1. Do not turn off the power by removing the power plug. To turn off the power, click the power button on the front panel. When the system stops abnormally, the power button might not work. Click the power button for 5 full seconds to turn the power off.
- 2. Do not cut off the power artificially or shock or vibrate the unit while the HDD is active. It may cause hard disk failure or loss of data.



✓!\ Remarks

※ Pictures and buttons, functions, or configurations are subject to change or modification per the different models.

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Section 1: Hardware Overview

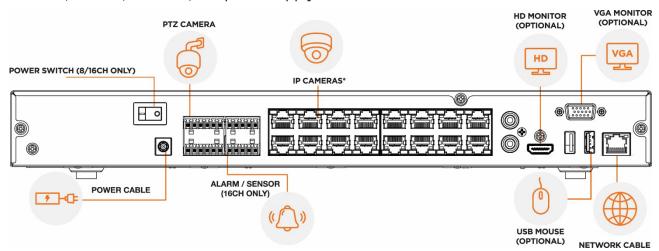
1.1 What's in the Box

When opening the unit for the first time, ensure the following is included in the box with your unit.

WHAT'S IN THE BOX						
Quick Setup Guide		1 Set	48V D/C Power Supply and Cable		1 Set	
USB Mouse	Ø	1	Rack Mount Ears (8- and 16-channel models only)		1 Set	
Alarm In/Out Terminal Block (16-channel model only)		4	Rack Mount Screws (PWM3x6mm)	666 686	6	

1.2 Parts Identification

Refer to the diagram below to identify and locate all necessary ports and connections for external cameras, sensors, monitors, and power supply.



NOTES:

- Features and the number of PoE ports in the back varies by model.
- Alarm in/out is available on the DW-COVA16 model only.
- The power switch is available only on the 8-CH and 16-CH models. The 4-CH model powers up automatically upon connecting the power cable.
- Only one video output port can be used at a time. This hardware does not support dual monitoring.



1.3 Setting up the NVR

- 1. Place the NVR in its final position. See safety tips for proper installation below.
- 2. Connect all necessary cameras, external devices and cables to the NVR.
- 3. Connect the NVR to an appropriate power supply. The NVR will boot up automatically.

		DW-COVA4	DW-COVA8	DW-COVA16		
System	Power Requirements	DC 48V/1.25A	DC 48V/2.5A	DC48V/3.75A		
	Power Consumption	≤ 10W	≤10W	≤ 20W		
PoE	PoE Ports	100M RJ45 × 4	100M RJ45 × 8	RJ 45 100Mbps × 16		
	Standards	IEEE802.3AF/AT				
	Max power per port	802.3AT				
	Output Power	≤ 48W	≤ 80W	≤ 150W		

1.4 Safety Tips



Do not expose the unit to direct sunlight.



Place the unit in a dust and moisture-free environment.



Do not press any button or turn the unit off during the boot-up process.



Allow at least 3" (7.6cm) of clearance around the ventilation openings.



A max ambient temperature of 104°F (40°C) is recommended.



A UPS (Uninterrupted Power Supply) is recommended.

Section 2: DW Mobile+ App Setup

The COVA bridge NVR is built as a hybrid cloud-based local recording system. All settings, monitoring and configuration are done remotely via the DW Mobile+ app, the system's web browser, or your myDW dashboard.

To see the local setup wizard section, go to <u>Section 3: Local Setup Wizard</u>.

To complete the NVR's setup wizard, download the <u>DW Mobile+</u> app from the app store by searching for "DW Mobile Plus" or using the links below.





2.1 Log in to myDW

To register the COVA unit with Digital Watchdog with the DW Mobile+ app:

1. Open the DW Mobile+ app and select "Login to myDW" in the top-left corner.



2. Enter the username and password to your myDW account.





3. Tap the 'Menu' button and select the 'Quick Setup COVA' option.



2.2 Find Your COVA Unit

Follow the instructions in the app to find and register your COVA unit with Digital Watchdog.

IMPORTANT: The NVR must be connected to the same local network as the DW Mobile+ app for initial detection. Users can complete the setup wizard locally at the NVR or via the web client if no Wi-Fi network is available for mobile connection.



Tap on the unit once it shows up in the scan result, and complete the setup process.



NOTE: The unit's setup wizard can be completed from the unit itself, the DW Mobile+ app, or the COVA unit's web client.

2.3 Select Language

Choose your preferred language from the drop-down options. Tap 'Next' to save and move to the next step.

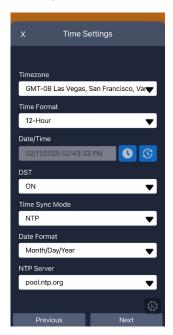




2.4 Time Settings

Select the system's time zone, date, and time format, turn Daylight Saving Time on or off, or manually enter the date and time. You can also select to synchronize the NVR with an NTP server, automatically syncing your NVR's date and time settings.

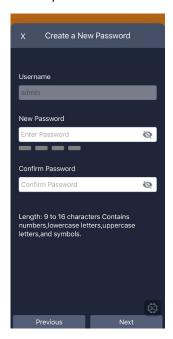
Tap 'Next' to save and move to the next step.



2.5 Create a New Password

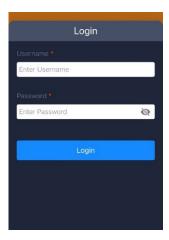
You will be asked to set up a new password when you log in to your unit for the first time. The password must be between 8 and 12 characters long, with a combination of at least one (1) uppercase letter, a lowercase letter, a number, and a special character. Acceptable special characters are $\lceil \sim 1 \rceil \cdot \lceil \cdot \rceil = \lceil \cdot \rceil \cdot \rceil = \lceil \cdot \rceil \cdot \rceil \cdot \rceil$.

Tap 'Next' to save and move to the next step.



2.6 Login

After setting up the new password, you must log back into the system to continue with the setup wizard.



2.7 Network Settings

Select the network parameters as required.



Ethernet Port (Online)

Check "DHCP" to let the unit retrieve the network settings automatically. To enter the network settings manually, "DHCP" should be unchecked. Enter the IP Address, subnet mask, gateway and DNS information.

- IP Address: displays the unit's IP address. If DHCP is selected, the IP address will automatically adjust to match the network's requirements.
- **Subnet Mask:** The subnet mask address classifies the subnet to which the system belongs. For more information, please consult your network administrator or your Internet provider.
- Gateway: This is the IP address of the router or gateway server. It is required when



connecting to the NVR through the external router over the Internet (from an external network). For more information, consult your network administrator or your Internet provider.

Preferred and Alternate DNS: Enter the IP address of the Domain Name Server. Input the
DNS Server information to use DDNS, Email Notifications and NTP Server. For more
information, please consult your network administrator or your Internet provider. Users
can check the "Obtain DNS Automatically" box to allow the unit to obtain the DNS
information automatically.

Internal Ethernet Port

This section shows the IP Address and subnet mask for the IP cameras connected directly to the back of the unit. This can be manually adjusted as needed.

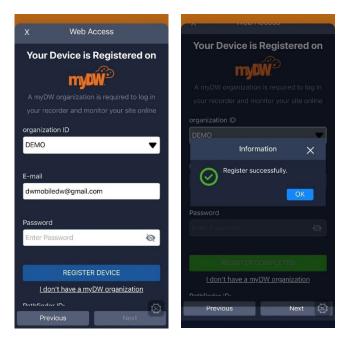
- HTTP Port: The default HTTP port is 80. The port number can be changed to another number, such as 81. The port is mainly used for web client access. To access the unit through a web browser, enter the IP address and the HTTP port into the address bar of a web browser. For example - http://192.168.11.61:81
- **Server Port:** The default server port is 6036. The server port number can be changed as needed. The port is mainly used to access the unit via a network video management system.
- HTTPS Port: The default HTTPS port is 443. HTTPS provides website authentication and protects user privacy. You can enter the IP address plus the HTTPs port in the web browser's address bar. Then, enter your username and password to log in.

NOTE: The HTTP and server ports should be mapped to the router before you access the unit via WAN. Contact your network administrator for more information.

Tap 'Next' to save and move to the next step.

2.8 Register Device

The myDW username entered in the app will be applied automatically here. Re-enter the password and click 'Next.'

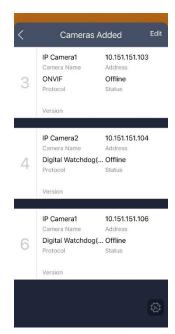


2.9 Camera Management

All cameras connected directly to the unit will appear on the 'Cameras Added' tab. You can also scan the network for additional cameras by clicking the 'Cameras Detected' tab.







To manually add cameras:

- 1. Go to the 'Cameras Detected' tab.
- 2. Check the boxes next to the cameras you want to add to your recorder.
- 3. Enter the admin password for the cameras and click the 'Add Selected' button.



- 4. Registered cameras will appear at the 'Cameras Added.' Click 'Finish'.
- 5. Tap the 'Edit' button on the top right to edit the camera name.

Once the setup wizard is done, you can see the new unit added to the app's main screen, as shown below:

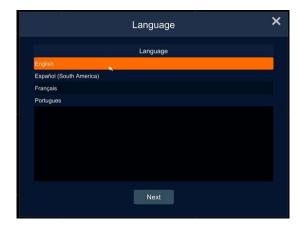


Section 3: Local Setup Wizard

Administrators can operate the COVA unit directly at the recorder itself. A display monitor must be connected to view the local user interface.

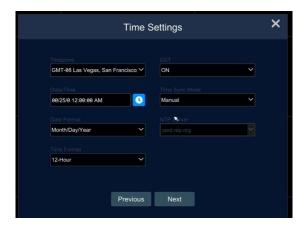
3.1 Language

Choose your preferred language from the drop-down options. Click 'Next' to save and move to the next step.



3.2 Time Settings

Select the system's time zone, date, and time format, turn daylight savings ON/OFF, or manually enter the date and time. You can also select to synchronize the NVR with an NTP server, automatically syncing your NVR's date and time settings.



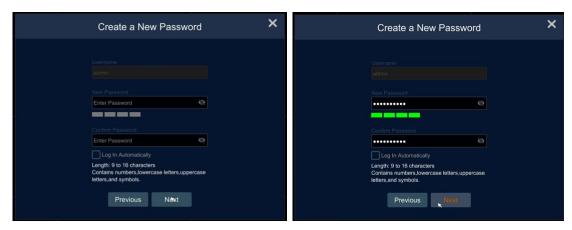
Click 'Next' to save and move to the next step.



3.3 Create a New Password

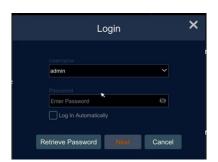
You will be asked to set up a new password when you log in to your unit for the first time. The password must be between 8 and 12 characters long, with a combination of at least one (1) uppercase letter, a lowercase letter, a number, and a special character. Acceptable special characters are $\lceil \sim 1 \rceil \cdot \lceil \cdot \rceil \cdot \rceil \cdot \rceil \cdot \rceil$.

Tap 'Next' to save and move to the next step.

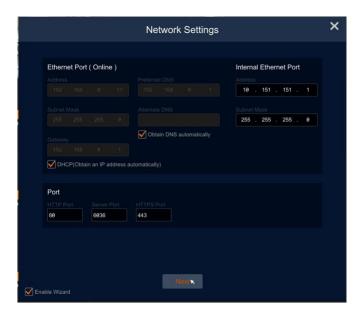


3.4 Login

After setting up the new password, you must log back into the system to continue with the setup wizard.



3.5 Network Settings



Ethernet Port (Online)

Check "DHCP" to let the unit get the network settings automatically. To enter the network settings manually, "DHCP" should be unchecked. Enter the IP Address, subnet mask, gateway and DNS information.

- IP Address: displays the unit's IP address. If DHCP is selected, the IP address will automatically adjust to match the network's requirements.
- Subnet Mask: The subnet mask address classifies the subnet to which the system belongs. For more information, please consult your network administrator or your Internet provider.
- Gateway: This is the IP address of the router or gateway server. It is required when
 connecting to the NVR through the external router over the Internet (from another
 network). For more information, consult your network administrator or your Internet
 provider.
- Preferred and Alternate DNS: Enter the IP address of the Domain Name Server. Input the
 DNS Server information to use DDNS, Email Notifications and NTP Server. For more
 information, please consult your network administrator or your Internet provider. Users
 can check the box for "Obtain DNS Automatically" to allow the unit to gain the DNS
 information automatically from the network settings.

Internal Ethernet Port

This section shows the IP Address and subnet mask for the IP cameras connected directly to the back of the unit. This can be manually adjusted as needed.

- HTTP Port: The default HTTP port is 80. The port number can be changed to another number, such as 81. The port is mainly used for web client access. To access the unit through a web browser, enter the IP address and the HTTP port in the address bar of a web browser—for example, http://192.168.11.61:81.
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• HTTPS Port: The default HTTPS port is 443. HTTPS provides website authentication and protects user privacy. You can enter the IP address plus the HTTPs port in the web browser's address bar. Then, enter your username and password to log in.

NOTE: The HTTP and server ports should be mapped to the router before you access the unit via WAN. Contact your network administrator for more information.

Click 'Next' to save and move to the next step.

3.6 Register Device

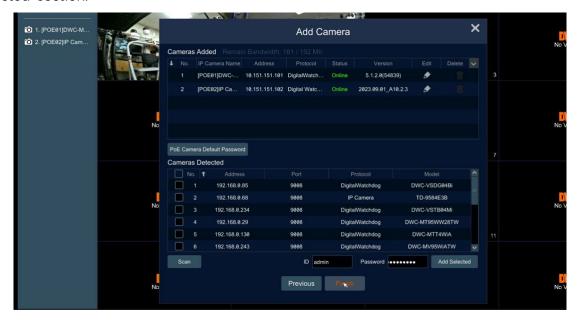
To access your unit remotely and add it to your myDW ecosystem, register your device with your myDW account. If you do not have a myDW account, contact your system administrator.



- 1. Enter your myDW username and password.
- 2. Enter the organization ID located in your myDW dashboard.
- 3. You can also add the unit's location.
- 4. Click on 'Register Device.' Once the unit is registered successfully, the 'Register Device' button will appear green.

3.7 Camera Management

All cameras connected directly to the unit will appear on the 'Cameras Added' section at the top of the screen. You can also scan the network for additional cameras in the menu's 'Cameras Detected' section.





To manually add cameras:

- 1. Press the 'Scan' button at the bottom of the 'Camera Detected' table. All cameras located on the same network as the NVR will appear in the results table.
- 2. Check the box next to the cameras you wish to add.
- 3. Enter the camera's admin password and click the 'Add Selected' button. Registered cameras will appear at the table at the top of the window. Click 'Finish'.

Click to edit the added camera. Enter the new camera name, IP address, port, username and

password. Click "OK" to save the settings.

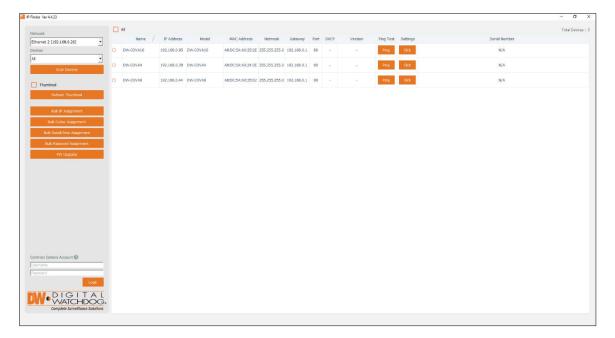
NOTE: Only the camera's name can be edited if the camera is added online via the mobile app or web browser. Click "Next" to continue.



Section 4: COVA Web Client

4.1 DW IP Finder

- 1. Download the latest version of DW IP Finder from the DW website.
- 2. Install and launch DW IP Finder on a computer in the same network as the COVA NVR.
- 3. All supported devices in the network will appear in the results table. Click the 'Click' button next to the COVA NVR to open the unit's web client.

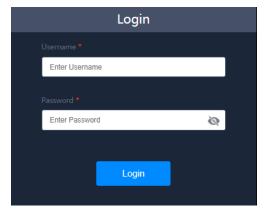


4.2 Login/Logout



- Click on **a** button on the top right corner of the home page. A drop-down list will be shown.
- Click 'Help' to access technical information, videos and support.
- Click 'Logout' to log off.
- To log back into the web client, enter the username and password for the system.

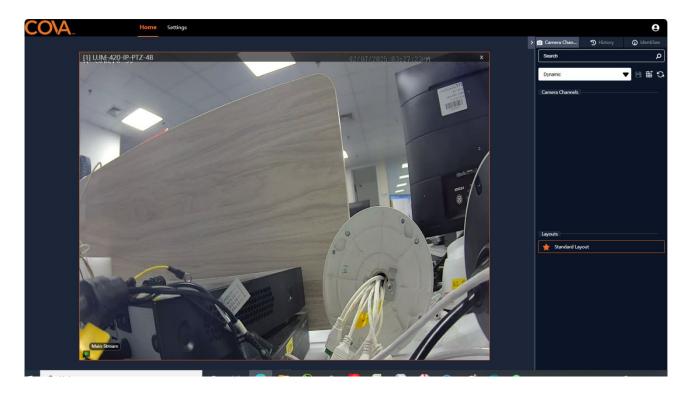
NOTE: User management is completed from the myDW dashboard.





4.3 Main Web Dashboard

4.3.1 Home



Drag a window to change its position. Double-click a window to view the single-channel image. Other cameras will be listed on the right.

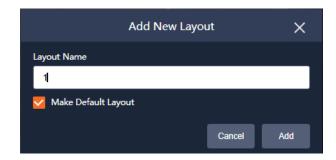
x : Close the window.

4.3.2 Layouts

The Standard Layout cannot be deleted. You can add new layouts as needed.

- 1. Click to add a new layout.
- 2. Click to add cameras to the left window.







- 3. Click to save the layout.
- 4. Click the layout name to view quickly.

4.3.3 History/Search

In the "History" tab, users can view recorded data.

Use the calendar drop-down to set a time range for the data search. Results will display a thumbnail preview image with the date and time stamp.

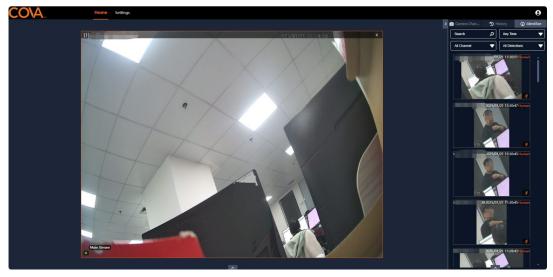
Click on any search results to open the related video on the main viewing panel.



4.3.4 Identisee

Identesee is a unique Al-powered search tool that detects and classifies humans and vehicles. This feature shows detected humans or vehicles as thumbnail previews in the camera's detection zone. Clicking on any of the previews will open the corresponding playback of the event.

To setup Identisee see <u>5.3 Identesee</u>





4.3.5 Timeline

The timeline bar is located at the bottom of the viewing area. It can be shown or hidden by clicking the arrow at the bottom of the viewing area.



Click to zoom in the timeline; click to zoom out the timeline

Different color blocks stand for different record types.

• Green: Schedule record

• Yellow: motion record

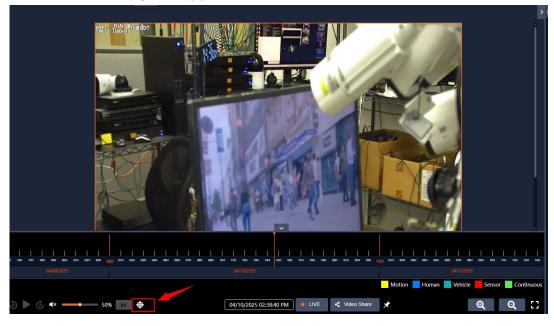
• Red: sensor record

• Dark Blue: Human

• Cyan: Vehicle

4.3.6 PTZ Control

The PTZ Control button is below the timeline at the bottom of the toolbar. The PTZ control button can be enabled only on supported IP cameras.

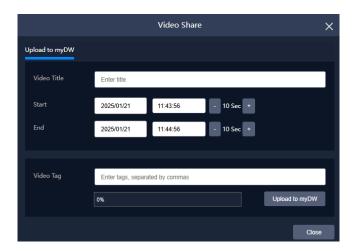


To control a PTZ camera:

- 1. Click on the PTZ Control button. The control panel will appear.
- 2. Users can use the arrow buttons to move the camera's position.
- 3. On supported models, use the + and buttons to zoom in and out and adjust the focus or the iris.
- 4. The gear icon will open the speed settings and allow users to create and save new presets.
 - a. Use the speed bar to adjust the speed at which the camera will move.
 - b. Select a preset from the drop-down menu. Click the 'Call' button to move the camera to the selected preset.
 - c. Press the '+' button to create a new preset.
 - d. Press the 'Delete' button to delete the selected preset.
 - e. Press the 'Save' button to save the camera's current position as a new preset.

4.3.7 myDW Video Share

Users can upload videos of events to their myDW Clip Share storage. Once uploaded, users can share the clips with other users within the organization, collaborate on tasks, or share them with law enforcement. COVA users get complimentary 4GB (DW-COVA4 models), 8GB (DW-COVA8 models), or 16GB (DW-COVA16 models) of myDW storage for Clip Share.



When selecting a video to upload to Clip Share, enter a video title (up to 256 characters). Enter the start and end time for the video range. It is not recommended to upload large time periods. Enter a few keywords for the Video Tag (up to 256 characters) if needed.

When ready, click on the 'Upload to myDW' button. The progress bar will show the upload process. When the upload is complete, click the 'Close' button.



٥

Speed

Preset



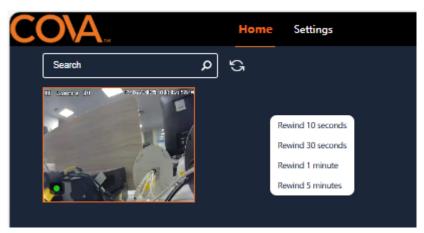
4.3.8 Live

Clicking the 'Live' button will update all camera previews to show live video.



4.3.9 Playback

To playback video for a camera in the viewing area, right-click anywhere on the screen to see the playback options below.



Users can also use the timeline or Identisee event search to playback videos and search through events.

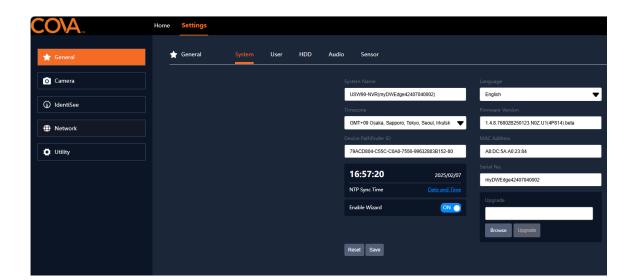
Section 5: COVA Settings

The COVA's settings include 5 sub-menus: General, Camera, Identisee, Network, and Utility.

5.1 General

5.1.1 System

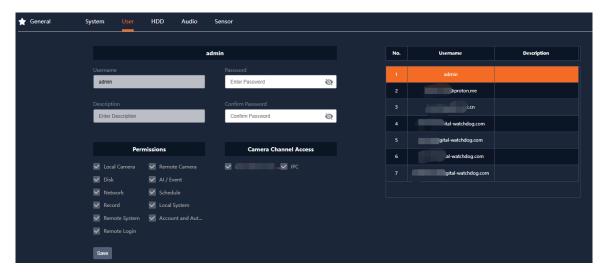
Click *Settings* → *General* → *System* to enter the system configuration interface. In this interface, users can set the video format, time zone, time and date, language, etc.



5.1.2 User

Click *Settings* → *General* → *User* to go to the interface shown below.

User management should be completed from the myDW dashboard. The local User menu on the COVA NVR's web client can only view all existing users (created in myDW) and update the admin password.

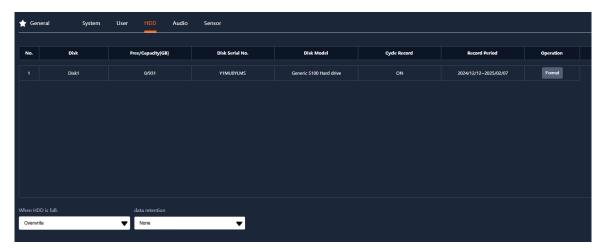




5.1.3 HDD

Click *Settings* → *General* → *HDD* to go to the interface shown below.

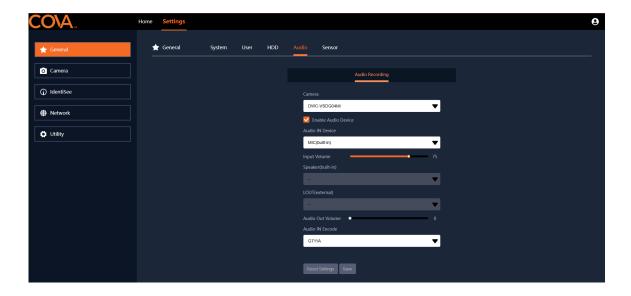
The COVA NVR comes with single or double HDDs (based on the model).



- Users can view the HDD's serial number, capacity, etc.
- Click "Format" to format the HDD.
- Users can also decide whether to overwrite old video or stop recording once the HDD is full.
 - Overwrite: the earliest recorded data will be replaced by the latest once the HDDs are full.
 - o **Stop Recording:** The system will stop recording new videos when the HDDs are full.

5.1.4 Audio

Click **Settings General Audio** to go to the interface shown below. **Audio Recording:** The COVA NVR supports audio recording from cameras with audio input and output support. Ensure the camera has audio input and output capabilities to add audio recording.



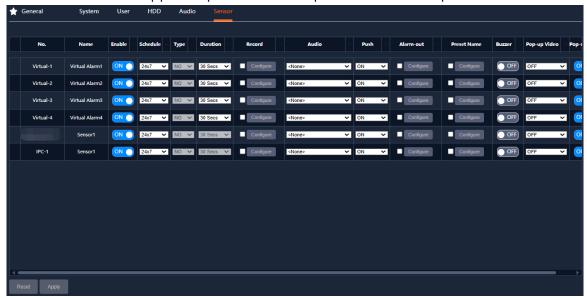
- . Select the camera from the drop-down menu and check the box to enable audio.
- 2. Check the box "Enable Audio Device" to enable audio from the camera.
- 3. Audio IN Device: Please select it according to the actual device configuration.
 - a. MIC(built-in): Enable the microphone built into the camera (on supported models)
 - b. LIN(external): Enable an external microphone connected to the camera (on supported models)
- 4. Input Volume: Adjust the audio volume from the camera as needed.
- 5. Speaker (built-in): Available for cameras with a built-in speaker.
- 6. LOUT (Line Output): Available for cameras with an audio line output.
- 7. Audio Out Volume: Adjust the audio volume from the camera as needed.
- 8. Audio IN Encode: G711A/G711U

NOTE: Some cameras cannot simultaneously enable the speaker (built-in) and LOUT (external). See the camera's user manual for more information.

5.1.5 Sensor

Click *Settings* → *General* → *Sensor* to go to the interface shown below.

The DW-COVA16 model supports up to 4 alarm outputs and 8 alarm inputs.



- Duration: It refers to the interval time between the adjacent detections.
- **Record**: If checked, the "Trigger Record" window will open automatically (you can also click the "Configure" button to open the window). Select a camera on the left side and then click
 - to set the camera as the trigger camera. Select the trigger camera on the right side or
 - click to cancel the trigger camera. Click "OK" to save your settings. The trigger camera will record automatically when the sensor alarm is triggered.
- Audio: If selected, the camera will broadcast the set audio.
- Push: If checked, choose ON or OFF. If ON, the system will send messages when the sensor alarm is triggered.



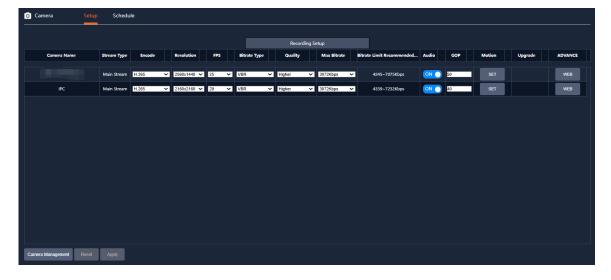
- Alarm-out: If checked, the "Trigger Alarm-out" window will open automatically. The system will trigger the alarm-out automatically when the sensor alarm is tripped. You need to set the delay time and the alarm output schedule.
- **Preset**: The "Trigger Preset" window will automatically open if checked. Here, you can configure the trigger preset for each camera.
- **Buzzer**: If enabled, the system will emit an audible buzz when the sensor alarm is triggered. To set the delay time for the buzzer,
- **Pop-up Video**: After camera setup, the corresponding video will pop up automatically when the sensor alarm is triggered.
- **Pop-up Message Box**: If enabled, the system will automatically pop up the corresponding alarm message box when the sensor alarm is triggered.

5.2 Camera

5.2.1 Recording Setup

Click *Settings* → *Camera* → *Setup* to go to the interface below.

In this window, users can set the recording parameters for each camera, including the encoding, resolution, FPS, GOP, bitrate type, quality, max bitrate, and audio for the Main Stream in each camera.

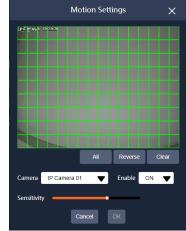


5.2.2 Motion

Motion Alarm: When motion is detected in the specified area, it will trigger the alarm. It is recommended that users enable motion on all cameras before setting

the recording schedule.

- 1. Select a camera, enable motion, and set the camera's sensitivity.
- Sensitivity: the higher the value is, the more sensitive it will be to motion. You should adjust the value according to the practical conditions since the sensitivity is influenced by background color and time (day or night).
- 3. **Duration**: The interval time between adjacent motion detections. For instance, if the duration time is set to 10 seconds, once the system detects a motion, it will trigger the alarm and not detect any other motion (specific to that camera) for 10 seconds. If another motion is detected during this period, it will be considered continuous movement.



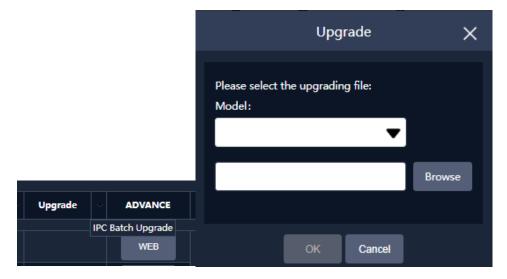
- 4. Click and drag the mouse cursor across the camera's preview to set the motion area. Click "Reverse" to swap the motion and the non-motion regions. Click "All" to set the entire camera image as the motion area. Click "Clear" to clear all the motion areas.
- 5. Click "OK" to save the settings.
- 6. Click "Web" to jump to the camera's web client for additional settings.

5.2.3 Upgrade

System administrators can update FW for multiple cameras from the COVA menu.

Click next to "Upgrade" and select "IPC Batch Upgrade."

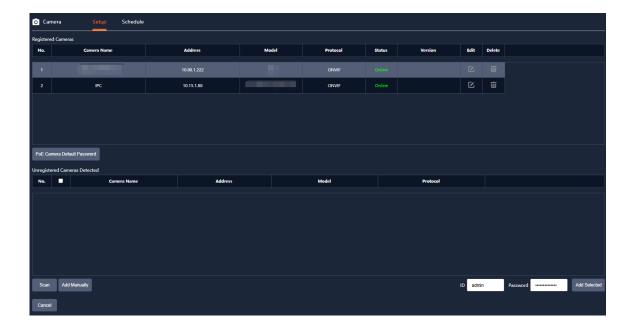
Upload the new FW file. If users update multiple cameras simultaneously, ensure the FW file is correct for all the models.



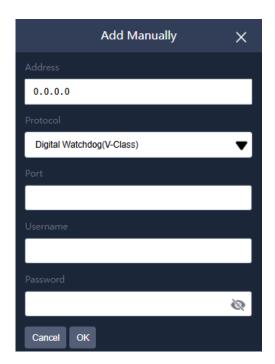


5.2.4 Camera Management

Click "Camera Management" to enter the camera-adding interface. This screen will show
you all currently registered cameras connected directly to the NVR and all cameras located
on the same network as the recorder. Users can add, remove, and manage cameras
connected to the NVR.



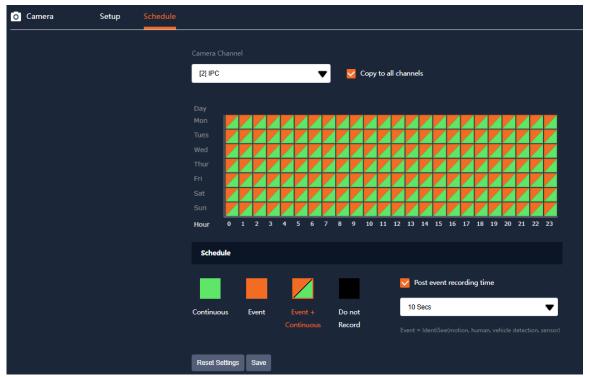
- Click "Scan" to view the detected cameras.
- Select the desired camera and click the "Add Selected" button.
- Click "Add Manually" to manually add a camera by entering its local IP address, camera protocol, network port, and camera login (user/password).



5.2.5 Schedule

Click Settings→ Camera→ Schedule to go to the interface below.

Users can set a recording schedule for each camera with motion and event recording types.



To set a recording schedule:

- 1. Select the camera.
- 2. Select the recording type (Continuous, Event record, Event + Continuous, Do not Record).
- 3. Drag the mouse on the timetable to set the corresponding schedule.
- 4. Post-event recording time: Set the time to record after finishing the recording.

5.3 IdentiSee

Go to **Settings \rightarrow Identisee**. Set the intrusion detection zone for each camera. An alarm will be triggered if people or vehicles cross into the detection zone.





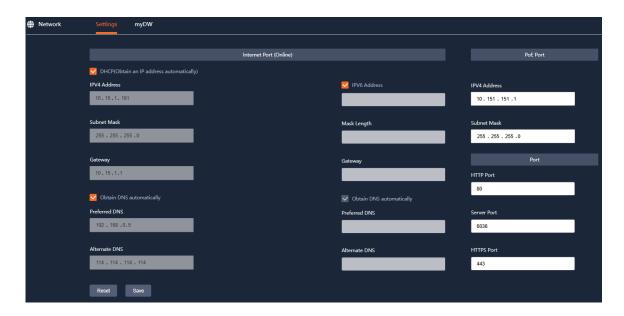
To set Identisee:

- 1. Select the camera to enable detection by IPC.
- 2. Check the detection target.
- 3. Select the alarm area. Up to 4 alarm areas can be set up.
- 4. Draw the alarm area of the region intrusion detection. Select the area within the preview image where you want to set the alarm. The alarm area should be a closed area.
- 5. Click "Apply" to save the settings.

5.4 Network

5.4.1 Settings

Click **Settings** → **Network** → **Settings** to go to the following interface.



Ethernet Port (Online)

Check "DHCP" to let the unit get the network settings automatically. To enter the network settings manually, "DHCP" should be unchecked. Enter the IP Address, subnet mask, gateway and DNS information.

- IP Address: Displays the unit's IP address. If DHCP is selected, the IP address will automatically adjust to match the network's requirements.
- Subnet Mask: The subnet mask address classifies the subnet to which the system belongs. For more information, please consult your network administrator or your Internet provider.
- Gateway: This is the IP address of the router or gateway server. It is required when
 connecting to the NVR through the external router over the Internet (from another
 network). For more information, consult your network administrator or your Internet
 provider.
- Preferred and Alternate DNS: Enter the IP address of the Domain Name Server. Input the
 DNS Server information to use DDNS, Email Notifications and NTP Server. For more
 information, please consult your network administrator or your Internet provider. Users
 can check the box for "Obtain DNS Automatically" to allow the unit to gain the DNS
 information automatically from the network settings.

Internal Ethernet Port

This section shows the IP Address and subnet mask for the IP cameras connected directly to the back of the unit. This can be manually adjusted as needed.

• HTTP Port: The default HTTP port is 80. The port number can be changed to another number, such as 81. The port is mainly used for web client access. To access the unit through a web browser, enter the IP address and the HTTP port in the address bar of a web



browser—for example, http://192.168.11.61:81.

- **Server Port:** The default server port is 6036. The server port number can be changed as needed. The port is mainly used to access the unit via a network video management system.
- HTTPS Port: The default HTTPS port is 443. HTTPS provides website authentication and protects user privacy. You can enter the IP address plus the HTTPs port in the web browser's address bar. Then, enter your username and password to log in.

NOTE: The HTTP and server ports should be mapped to the router before you access the unit via WAN. Contact your network administrator for more information.

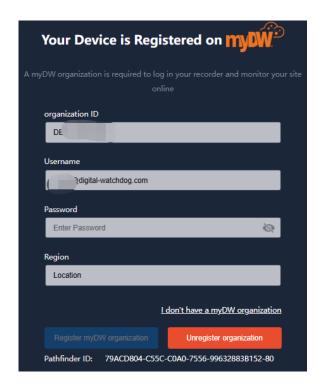
5.4.2 myDW Registration

Click **Settings** → **Network** → **myDW** to go to the following interface.

This screen will show the NVR's myDW registration status. Users can update the location, username, and password as needed.

Users can unregister and transfer the unit to another myDW Organization by entering a new organization ID, username, and password, or scanning the QR code to complete the myDW registration.

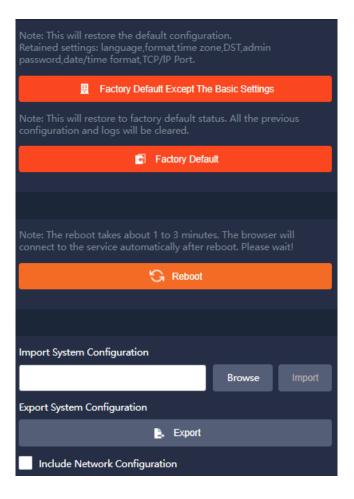
NOTE: COVA is a bridge NVR for myDW users. It is not supported as a standalone recording solution.





5.5 Utility

Click **Settings** → **Utility** to go to the following interface.



Under the utility menu, users can factory reset the unit, reboot, or import system settings between recorders.

- Select 'Factory Default Except Basic Settings' to restore the recorder's settings to their default state. Settings that will be kept include language, time settings, administrator login, and network settings.
- Select 'Factory Default' to reset all the recorder's settings.
- Click on 'Reboot' to restart the recorder.
- To import settings from another recorder, browse for the configuration file on your computer and upload it to override the current system configuration.
- To export the settings of the current recorder, press the 'Export' button. The file will be saved to your computer.
 - To include the network settings in the export file, check the box 'Include Network Configuration.'



Section 6: Specifications

Model		DW-COVA4	DW-COVA8	DW-COVA16		
VIDEO						
Operating System		Embedded Linux	Embedded Linux	Embedded Linux		
	Channels	4 channels	8 channels	16 channels		
System	No. of PoE	4 PoE ports	8 PoE ports	16 PoE ports		
	Supported Camera Resolutions		Up to 8MP			
	Video Output Ports	Up to 8MP Up to 16MP True HD, VGA				
		True HD: 3840 × 2	True HD: 3840 × 2160 / 1920 × 1080 / 1280 × 1024/ 1024 × 768			
Display	Video Output Resolution	VGA: 1920 × 1080 / 1280 × 1024 / 1024 × 768				
Diopidy	Display speed	Real-time 30fps live display per channel.				
	Screen Display Mode	1, 4	1, 4, 9	1, 4, 9,16		
	System Operations		louse, remote controller			
	USB	038111	USB 2.0 x 2	(Optional)		
Ports	035		038 2.0 x 2	Yes, for PTZ or		
	RS 485	NA	NA	keyboard		
LOCAL DED	FORMANCE			Reyboard		
Recording R		Unite	8MP	Up to 16MP		
Recording S		<u> </u>	Sofps per channel in any	·		
Max Throug	-			I		
Recording M		•	80 Mbps 80 Mbps 192 Mbps			
Decoding		Schedule, continuous, event				
Decoding	Live View/Playback	4 shamadianut	up to 30fps			
	Network Input	4-channel input from supported IP	8-channel input from supported IP	16-channel input from		
Audio				supported IP cameras		
Audio	Local Input/Output	cameras cameras Disabled				
	Compression					
		G.711(U/A)		Q In		
A la uma	Input	N/A	N/A	8 In		
Alarm	Output	N/A N/A		4 Out		
	Triggering		Record, snap, preset, email, etc. 1x SATA HDD 2x SATA H			
Storage	HDD Interface		1x SATA HDD			
NETWORK	Max. internal storage	Up to 10TB		Up to 32TB		
	PERFORMANCE	10 /1	00 /10 00 Mb = 5 Fbb = 1112 = 1	L (ID45)		
LAN		10/1	00/1000Mbps Etherne	L (JK43)		
Compression		H.265 / H.264				
Protocol			TCP / IP, IPv4, IPv6, UDP, DHCP, DNS, DDNS, UPnP, NTP, HTTP, SMTP, 802.1x, RTSP, RTP, RTCP, WebSocket, ONVIF			
	T		1			
		Live monitoring,	Live monitoring,	Live monitoring,		
		remote playback	remote playback	remote playback and		
Access	Remote Web Client Features	and file backup	and file backup	file backup		
		Playback up to 4	Playback up to 8	Playback up to 16		
		channels, 30fps per	channels, 30fps per	channels, 30fps per		
		channel	channel	channel		

	1	r		User Manual		
		Timeline, calendar (date and time), event search, Identisee				
		Remote system re	eboot, FW updates, sys	tem management and		
			remote PTZ control			
		Cloud-Base VMS	Cloud-Base VMS	Cloud-Base VMS		
		Live monito	Live monitoring, remote playback and file backup			
	myDM/ Manitaring software	User management,	User management, events, and system health notifications, video			
	myDW Monitoring software		sharing, and cloud upload			
		Remote system re	Remote system reboot, FW updates, system management and			
			remote PTZ contro	I		
		Live: up to 16CH	Live: up to 32CH	Linna de CACIA		
	Max stream connections	Playback: up to	Playback: up to	Live: up to 64CH		
		4CH	8CH	Playback: up to 16CH		
Remote Ti	me sync	Time synchro	onization to an NTP serv	ver (pool.ntp.org)		
System red	covery after a power failure	Auto-	Auto-reboot and journaling file system			
Backup		Over the networ	rk, video share via myD	W cloud-based VMS		
GENERAL						
Operating	Temperature		14 ~ 122°F (-10 ~ 50°C	C)		
Operating	Humidity		10% ~ 90% humidity	10% ~ 90% humidity		
	Power Requirements	DC 48V/1.25A	DC 48V/2.5A	DC48V/3.75A		
System	Power Consumption	≤ 10W (without HDD)	≤ 10W (without HDD)	≤ 20W (without HDD and PoE power supply)		
	PoE Ports	100M RJ45 × 4	100M RJ45 × 8	RJ 45 100Mbps × 16		
D-E	Standards		IEEE802.3AF/AT			
PoE	Max power per port	802.3AT	802.3AT	802.3AT		
	Output Power	≤ 48W	≤ 80W	≤ 150W		
Dimensions (W×D×H)		11.81" x 9.8" x 1.77"	14.96" x 10.55" x	14.06% × 10.55% × 1.77%		
		(300 × 249 ×	1.77" (380 × 268×	14.96" x 10.55" x 1.77"		
		45mm)	45mm)	(380 × 268× 45mm)		
Certificate		CE, FCC	CE, FCC, NDAA, RoHS, REACH and WEEE			
Warranty		5 year limited warranty				



Warranty Information

Go to https://digital-watchdog.com/page/rma-landing-page/ to learn more about Digital Watchdog's warranty and RMA.

To obtain warranty or out-of-warranty service, please contact a technical support representative at 1+ (866) 446-3595, Monday through Friday from 9:00 AM to 8:00 PM EST.

Before the warranty service is rendered, a purchase receipt or proof of the original purchase date is needed. This warranty only covers failures due to defects in materials and workmanship that arise during normal use. This warranty does not cover damages that occur in shipment or failures that are caused by products not supplied by the Warrantor or failures that result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, setup adjustments, improper antenna, inadequate signal pickup, maladjustments of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, rental use of the product or service by anyone other than an authorized repair facility or damage that is attributable to acts of God.

Limits and Exclusions

There are no express warranties except as listed above. The Warrantor will not be liable for incidental or consequential damages (including, without limitation, damage to recording media) resulting from using these products or arising out of any breach of the warranty. All express and implied warranties, including the warranties of merchantability and fitness for a particular purpose, are limited to the applicable warranty period set forth above.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights; you may also have other rights from state to state.

If the problem is not handled to your satisfaction, then write to the following address:

Digital Watchdog, Inc.

ATTN: RMA Department 16220 Bloomfield Ave Cerritos, CA 90703

Service calls that do not involve defective materials or workmanship, as determined by the Warrantor, in its sole discretion, are not covered. The cost of such service calls is the responsibility of the purchaser.