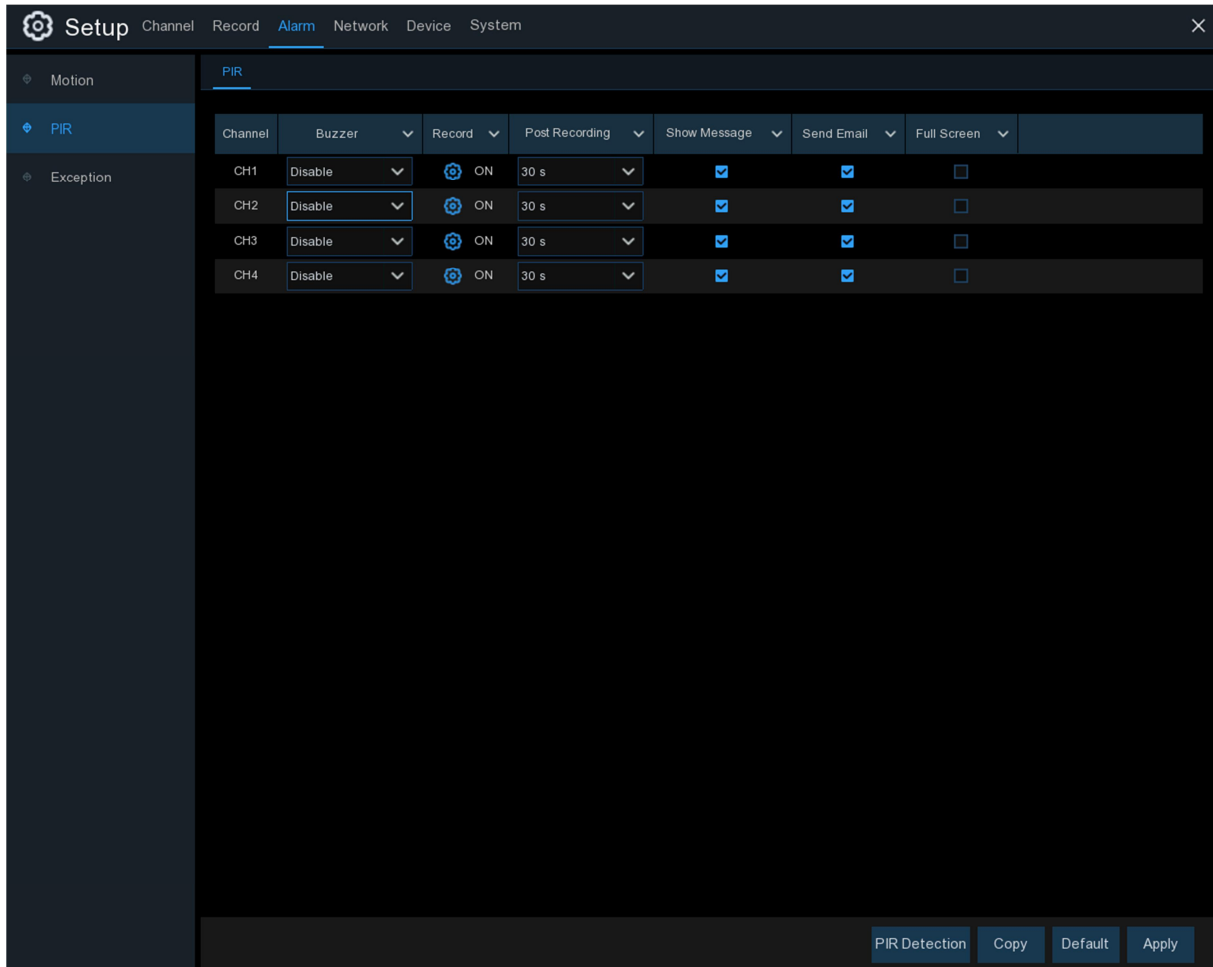



FTP Upload: To upload alarm images to FTP server when motion is detected. To enable FTP, please view [5.4.4 FTP](#).

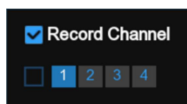
Click **PIR** button to configure the motion detection alarm function:



Channel: Display channel number.

Buzzer: The WIRELESS NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the motion is detected.

Record: Click  icon and choose which channel(s) you want to record when the motion detection is triggered.



Post Recording: You can set how long after an event occurs that the WIRELESS NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

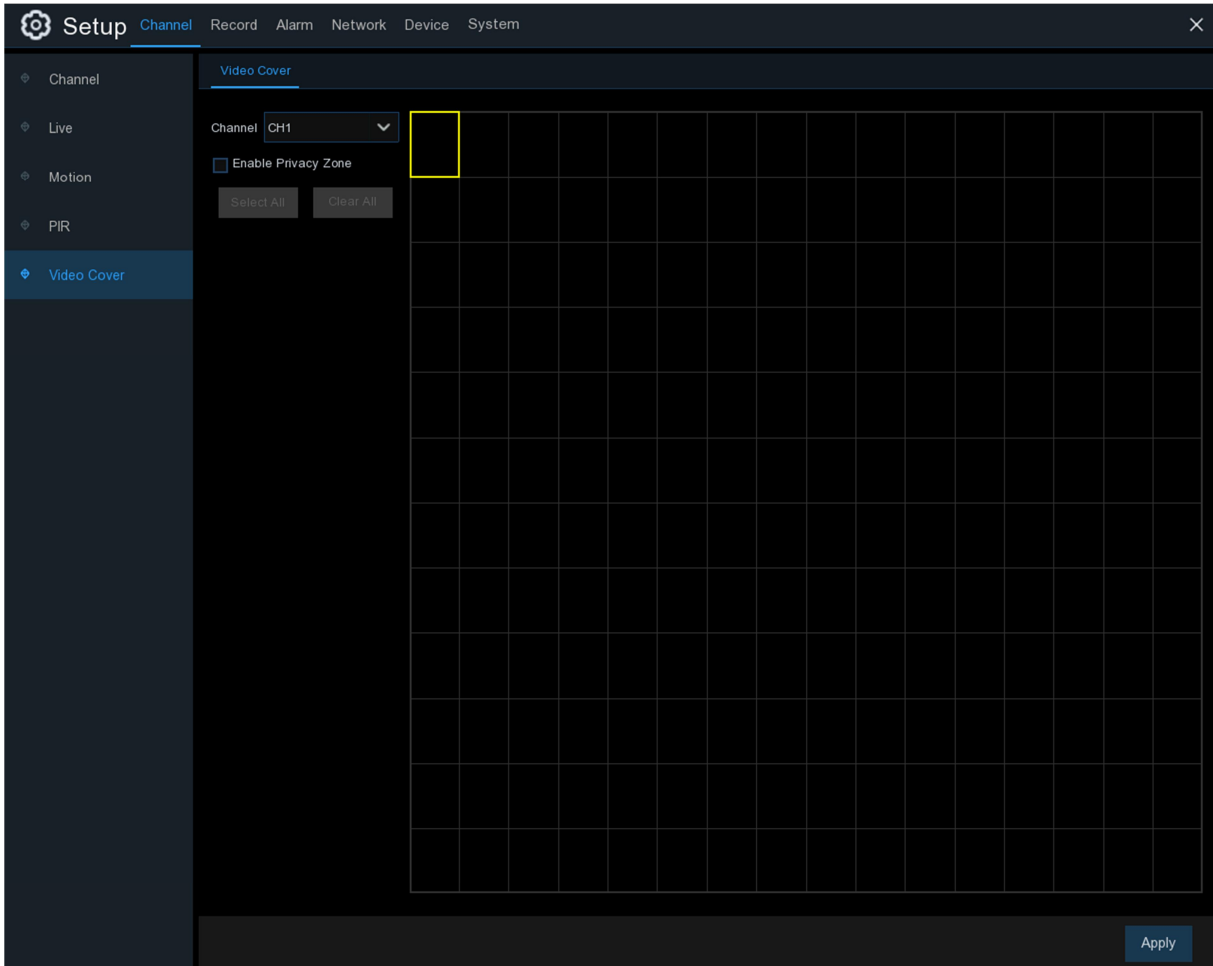
Show Message: Check the box to display  icon on the live view screen when the motion is detected.

Send Email: You can let the WIRELESS NVR to send you an auto-email when the motion is detected.

Full Screen: If this function is enabled and a motion is detected in a channel, you will see that channel in full screen.

5.1.6 Video Cover

This menu allows you to create privacy zone(s) if you want to partially cover some certain part of the image. You can create privacy zones in any size and location on the camera image. The zone(s) appear as “red box”.

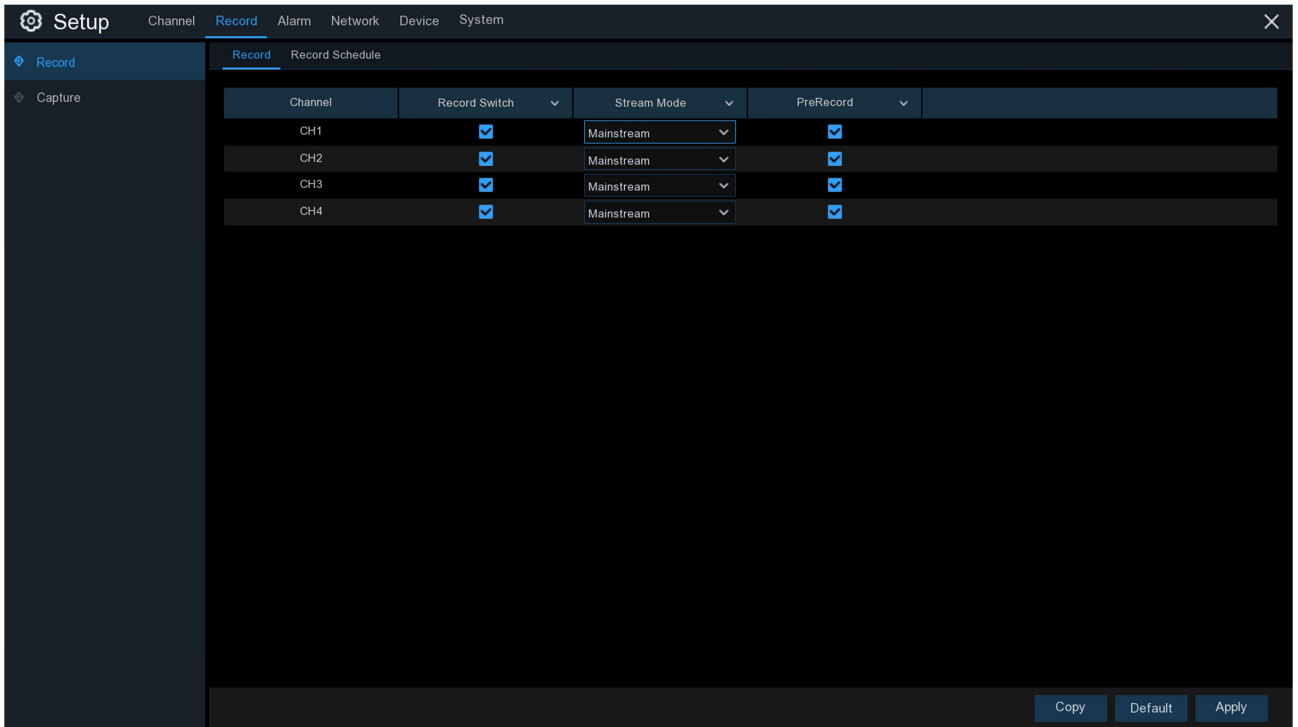


Note: The privacy zones you set will apply to both live view & recorded video.

5.2 Record

5.2.1 Record

This menu allows you to configure the channel recording parameters.



Channel: Display channel number.

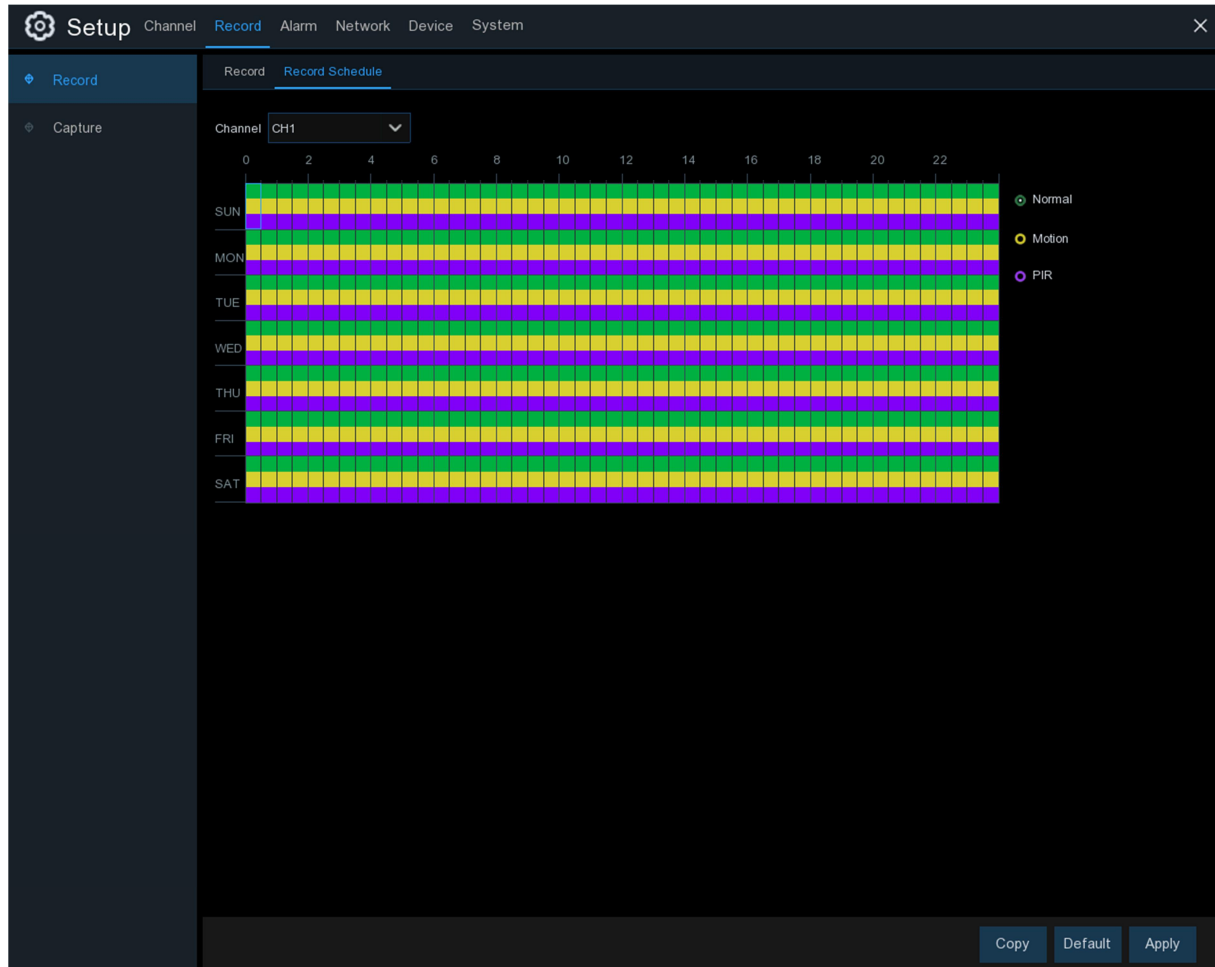
Record Switch: Enable in order to allow the video to be recorded to the HDD.

Stream Mode: Choose the recording resolution. The available options are Mainstream and DualStream.

PreRecord: If this option is enabled, the WIRELESS NVR starts recording a few seconds before an event occurs. Use this option if your primary recording type is motion based.

5.2.2 Recording Schedule

This menu allows you to specify when the WIRELESS NVR records video and define the recording mode for each channel. The recording schedule lets you set up a schedule like, daily and hourly by normal (continuous) recording, or motion recording. To set the recording mode, click first on the mode radio button (Normal, Motion), then drag the cursor to mark the slots. The recording schedule is valid only for one channel. If you want to use the same recording schedule for other channels, use **Copy To** function.



Channel: Select the channel to set its recording parameters.

Normal: When the time slot is marked green, this indicates the channel performs normal recording for that time slot.

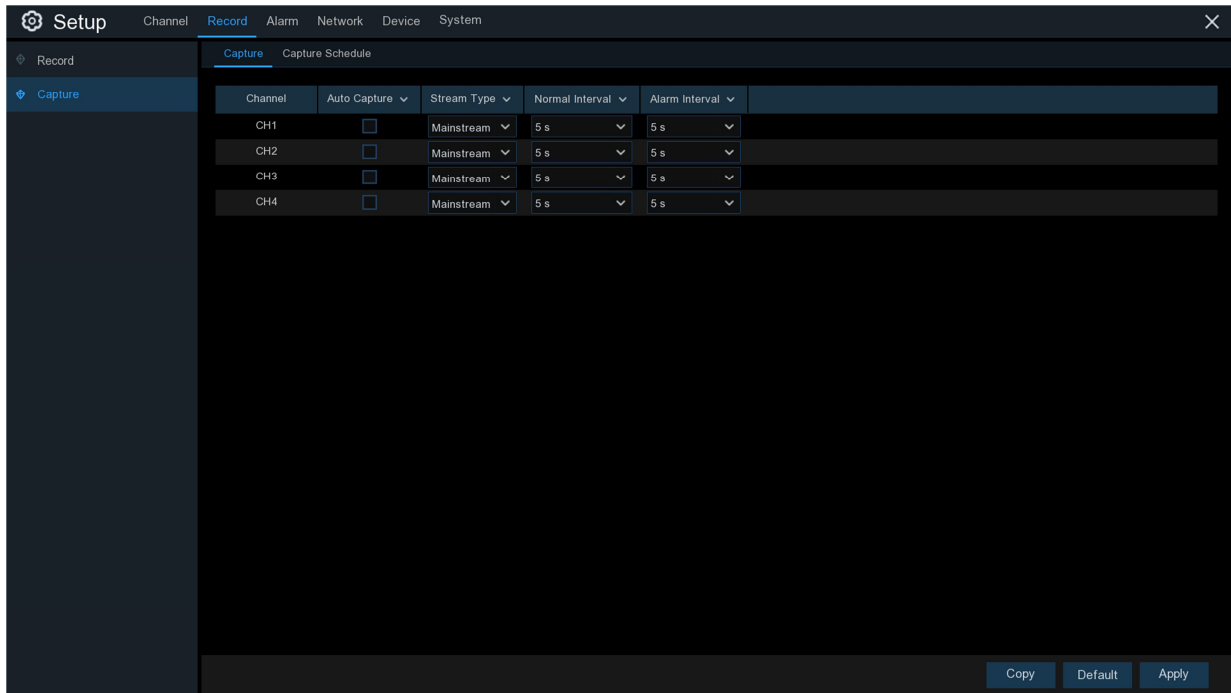
Motion: When the time slot is marked yellow, this indicates the channel records only when a motion is detected during that time slot.

NOTE: To use the motion detection, you must enable and configure the motion settings for the channel in Alarm menu. Please see [5.6.1 Motion](#)

No Record: A time slot marked black means that there is no recording scheduled for the time slot.

5.2.3 Capture

This menu allows you to configure the image capture function.



Auto Capture: Enable or disable automatic capturing on the channel. When this feature is enabled, you can select the snapshot capturing interval.

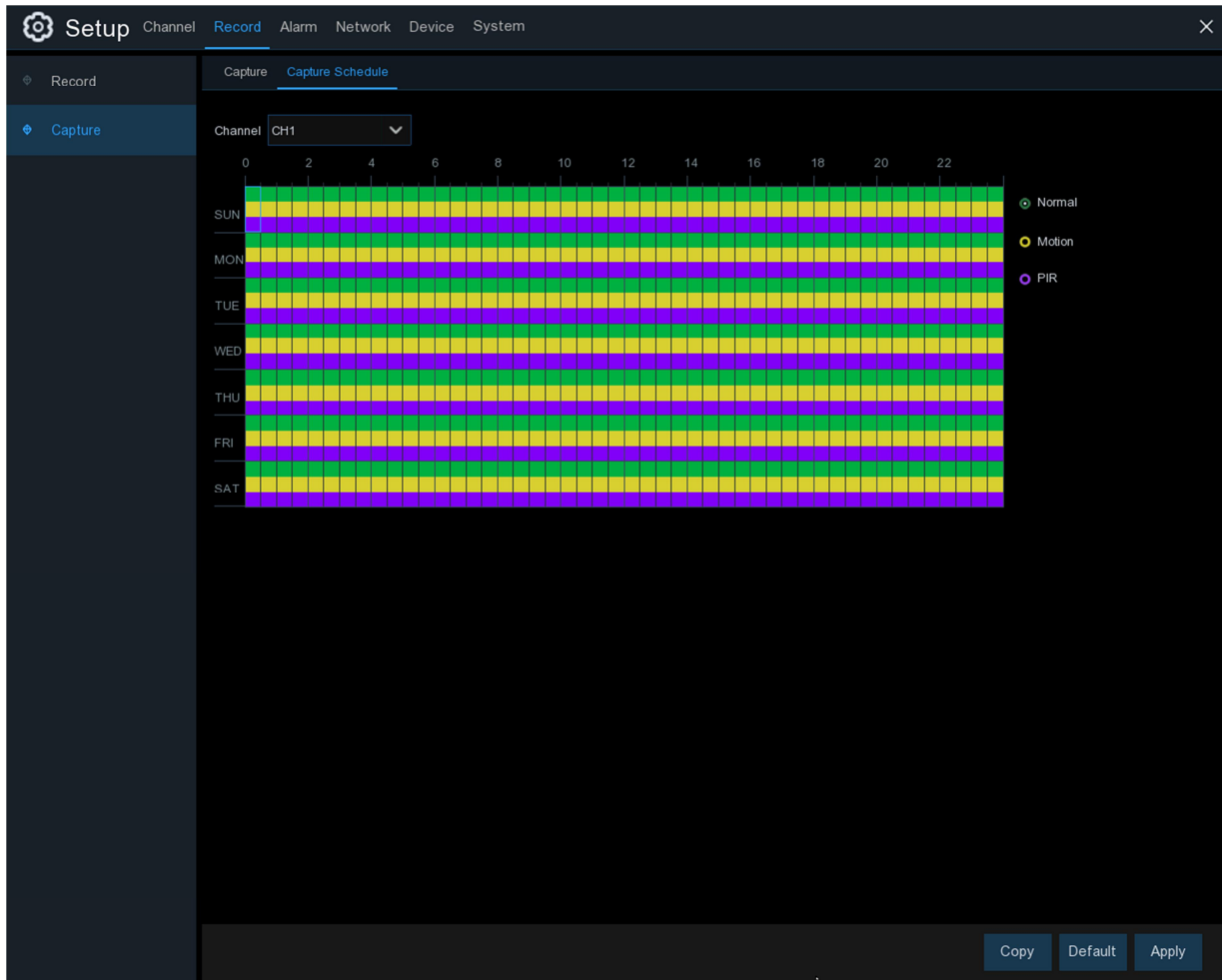
NOTE: When the Auto Capture is enabled, you can select the image capturing interval.

Stream Mode: Select the image resolution by mainstream or substream..

Normal Interval: Snapshots are captured based on normal interval.

Alarm Interval: Snapshots are captured based on alarm interval only when a motion is detected.

Capture Schedule



Channel: Select the channel to set its snapshot capturing schedule.

Normal: When the time slot is marked green, this indicates the channel is capturing snapshots based on the Normal Interval.

Motion: When the time slot is marked yellow, this indicates the channel is capturing snapshots based on Alarm Interval only when a motion is detected.

No Capturing: A time slot marked black means that there is no snapshot capturing scheduled for the time slot.

5.3 Alarm

In this section you can configure the alarm parameters.

5.3.1 Motion

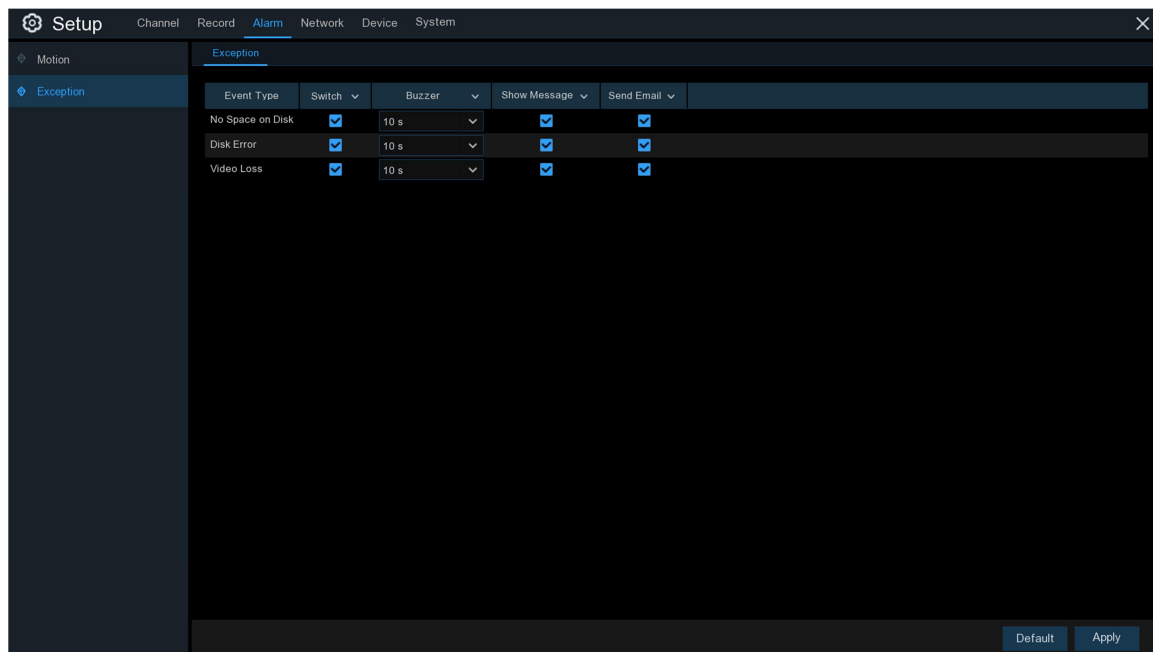
Operation is same as [5.1.3 Motion](#)

5.3.2 PIR

Operation is same as [5.1.4 PIR](#)

5.3.3 Exception

This menu allows you to set the type of events that you want the WIRELESS NVR to inform you of.



Event Type: Select the event type from below options:

- **No Space on Disk:** When an HDD is full.
- **Disk Error:** If the HDD is not detected properly.
- **Video Loss:** If a camera is not connected properly.

Switch: Check the box to enable the monitoring of the event.

Buzzer: Set the buzzer duration when the event occurs (Off/10s/20s/40s/60s). To disable buzzer, select **OFF**.

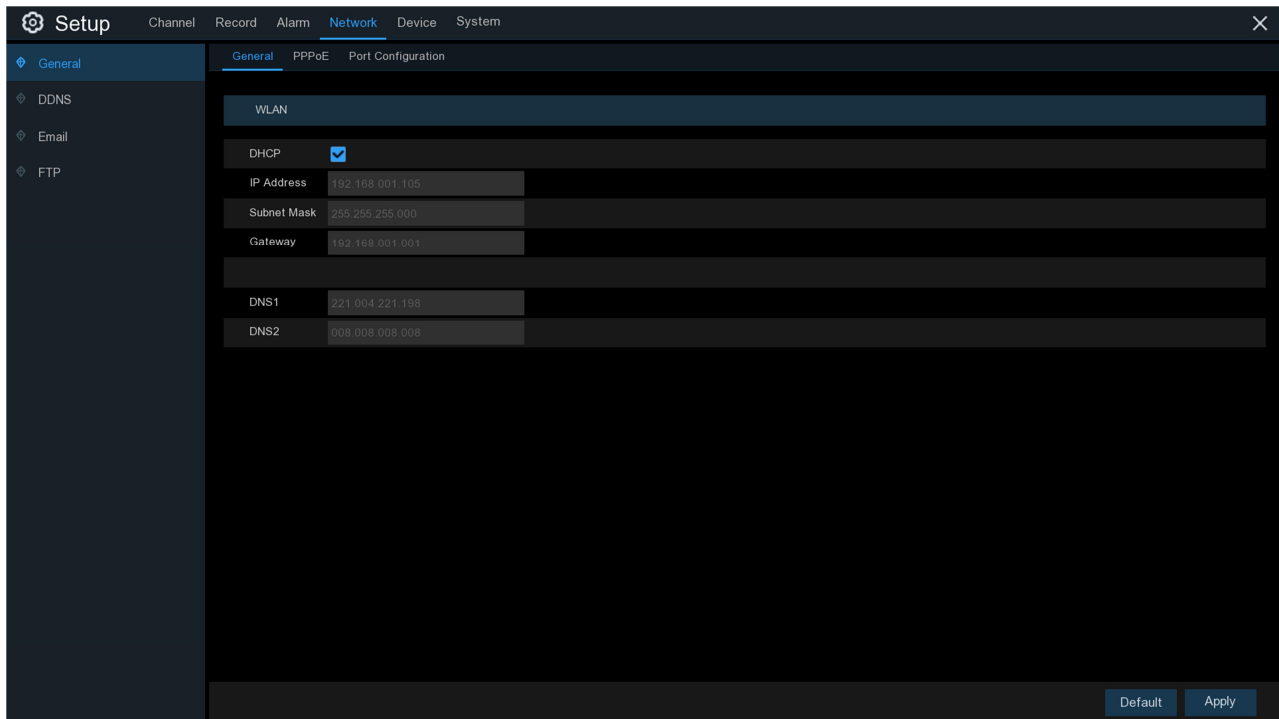
Show Message: Check the box to display a message on the screen when No Space on Disk, Disk Error, or Video Loss event happens.

Send Email: Allows the WIRELESS NVR to send you an auto-email when an event occurs.

5.4 Network

This menu allows you to configure network parameters, such as PPPoE, DHCP. The most common types are DHCP. Most likely your network type is DHCP, unless the network is manually addressed. If you need an authentication user name and password to the Internet, then choose PPPoE.

5.4.1 General



If you connect to a router that allows you to use DHCP, please check the **DHCP** box. The router will automatically assign all the network parameters for your WIRELESS NVR. Unless the network is manually addressed below parameters:

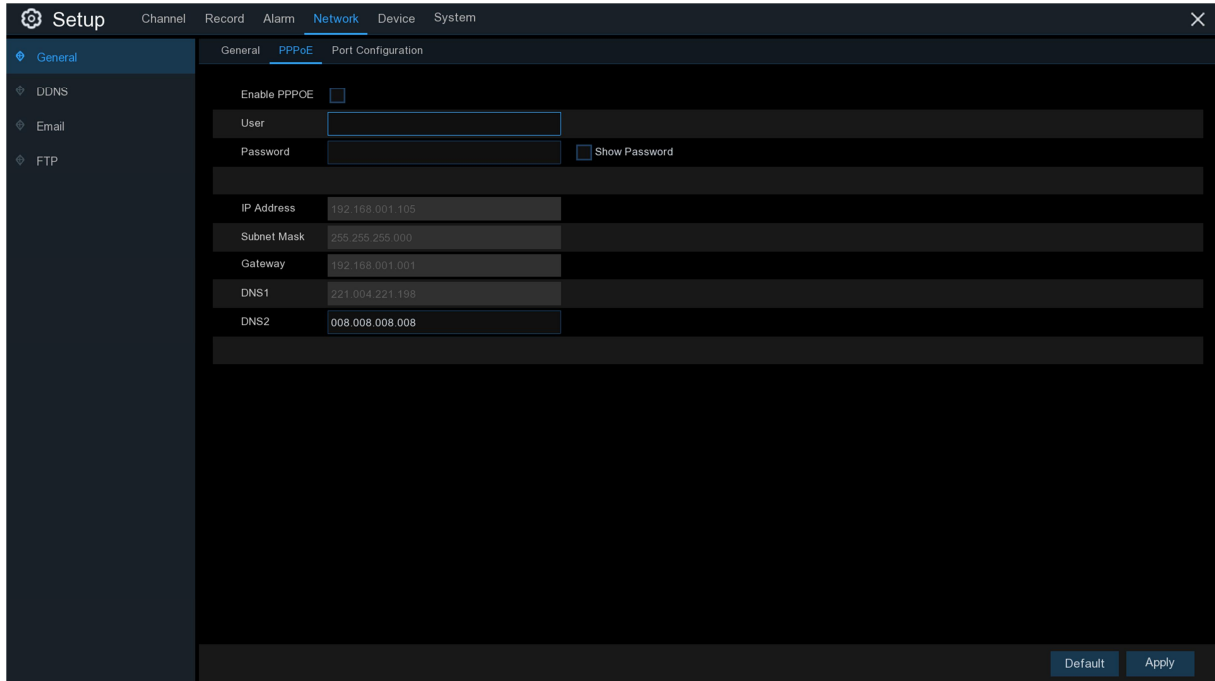
IP Address: The IP address identifies the WIRELESS NVR in the network. It consists of four groups of numbers between 0 to 255, separated by periods. For example, “192.168.1.100”.

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If the IP address is like a street where you live then a subnet mask is like a neighborhood. The subnet address also consists of four groups of numbers, separated by periods. For example, “255.255.0.0”.

Gateway: This address allows the WIRELESS NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, “192.168.1.1”.

DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server. It should usually be enough to just to enter the DNS1 server address.

5.4.1.1 PPPoE

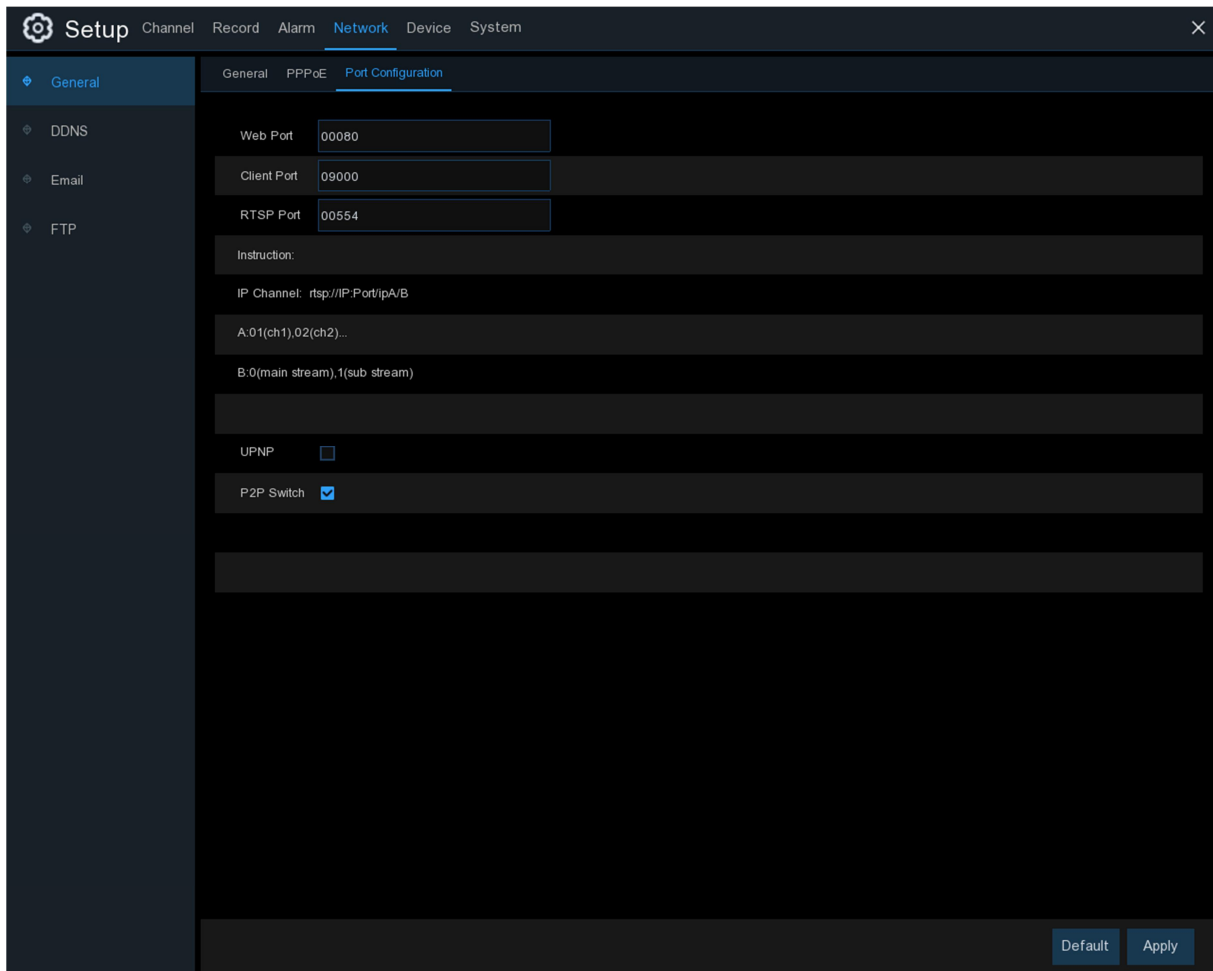


This is an advanced protocol that allows the WIRELESS NVR to connect to the network more directly via a DSL modem.

Check the “Enable PPPOE” box, and then enter the User name & Password of the PPPoE.

Click **Apply** to save, and the system will reboot to active the PPPoE setting.

5.4.1.2 Port Configuration



Web Port: This is the port that you will use to log in remotely to the WIRELESS NVR (e.g. using the Web Client). If the default port 80 is already taken by other applications, please change it.

Client Port: This is the port that the WIRELESS NVR will use to send information. If the default port 9000 is already taken by other applications, please change it.

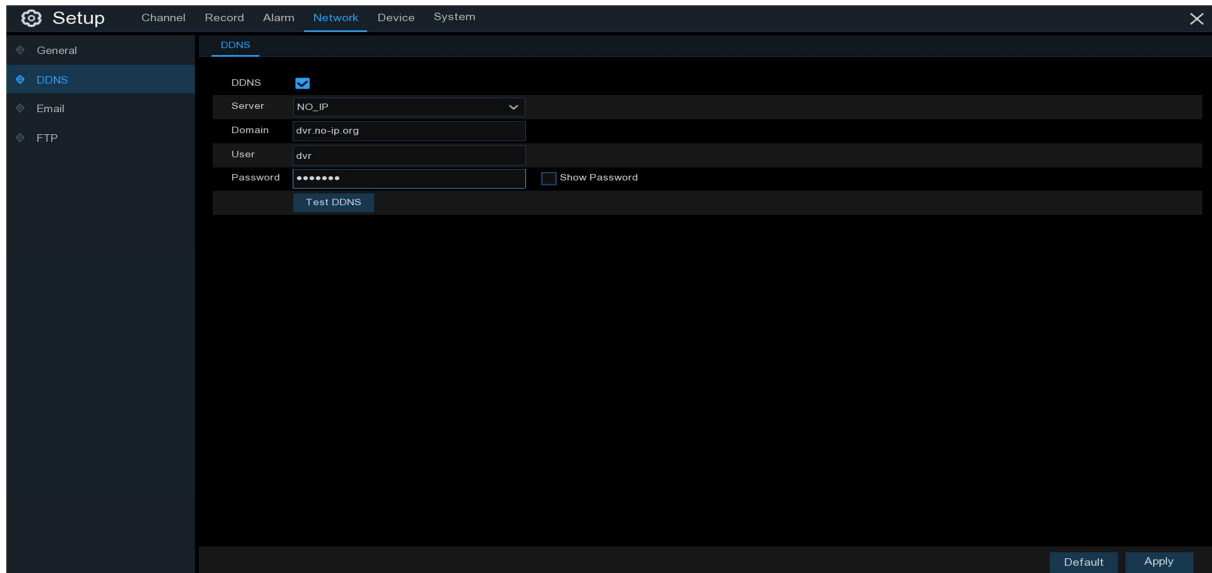
RTSP Port: Default is 554, if the default port 554 is already taken by other applications, please change it.

UPNP: If you want to log in remotely to the WIRELESS NVR using Web Client, you need to complete the port forwarding. Enable this option if your router supports UPnP. You need to enable UPnP both on the WIRELESS NVR and the router. In this case, you do not need to configure manual port forwarding on your router. If your router does not support UPnP, make sure the port forwarding is completed manually

P2P: Open/Close P2P

5.4.2 DDNS

This menu allows you to configure DDNS settings. The DDNS provides a static address to simplify remote connection to your WIRELESS NVR. To use the DDNS, you first need to open an account on the DDNS service provider's web page.



The screenshot shows the 'Setup' window with the 'Network' tab selected. The 'DDNS' section is expanded, showing a checkbox for 'DDNS' which is checked. Below it are fields for 'Server' (set to 'NO_IP'), 'Domain' (set to 'dvr.no-ip.org'), 'User' (set to 'dvr'), and 'Password' (masked with dots). A 'Show Password' checkbox is present. A 'Test DDNS' button is located below the password field. At the bottom right of the window are 'Default' and 'Apply' buttons.

DDNS: Check to enable DDNS.

Server: Select the preferred DDNS server (DDNS_3322, DYNDNS, NO_IP, CHANGEIP, DNSEXIT).

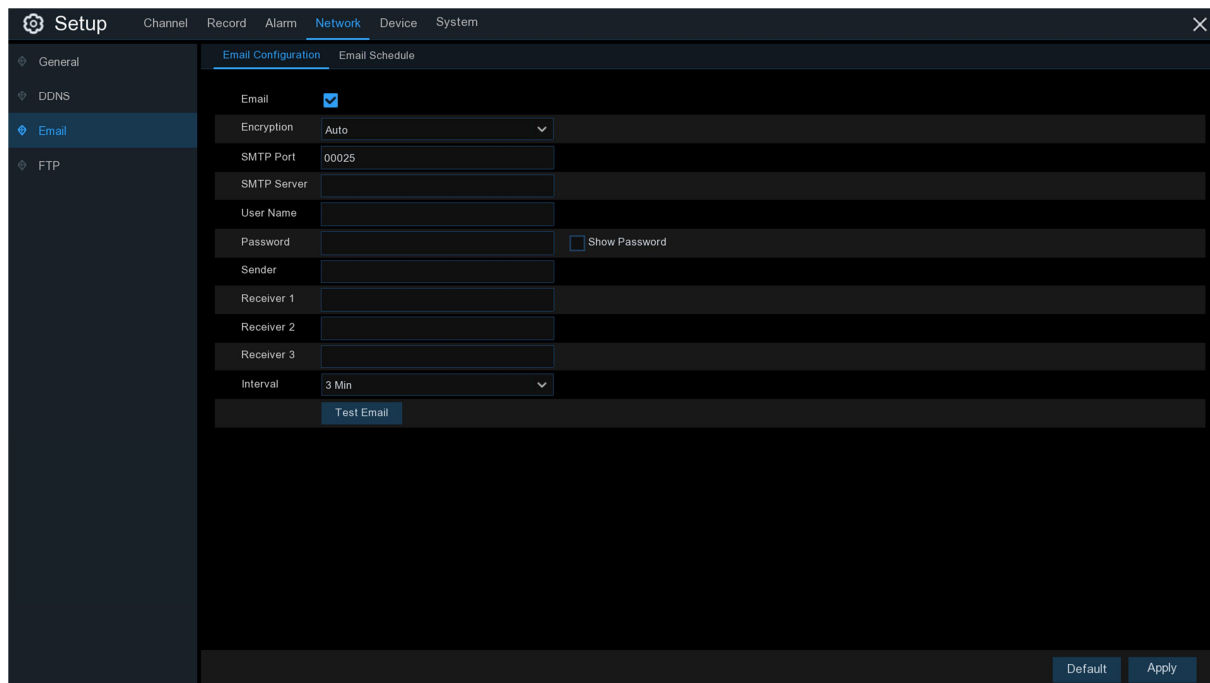
Domain: Enter the domain name you created on the DDNS service provider's web page. This will be the address you type in the URL box when you want to connect remotely to the WIRELESS NVR via PC. For example: NVR.no-ip.org.

User/Password: Enter the user name and password you obtained when creating an account on the DDNS service provider's web page.

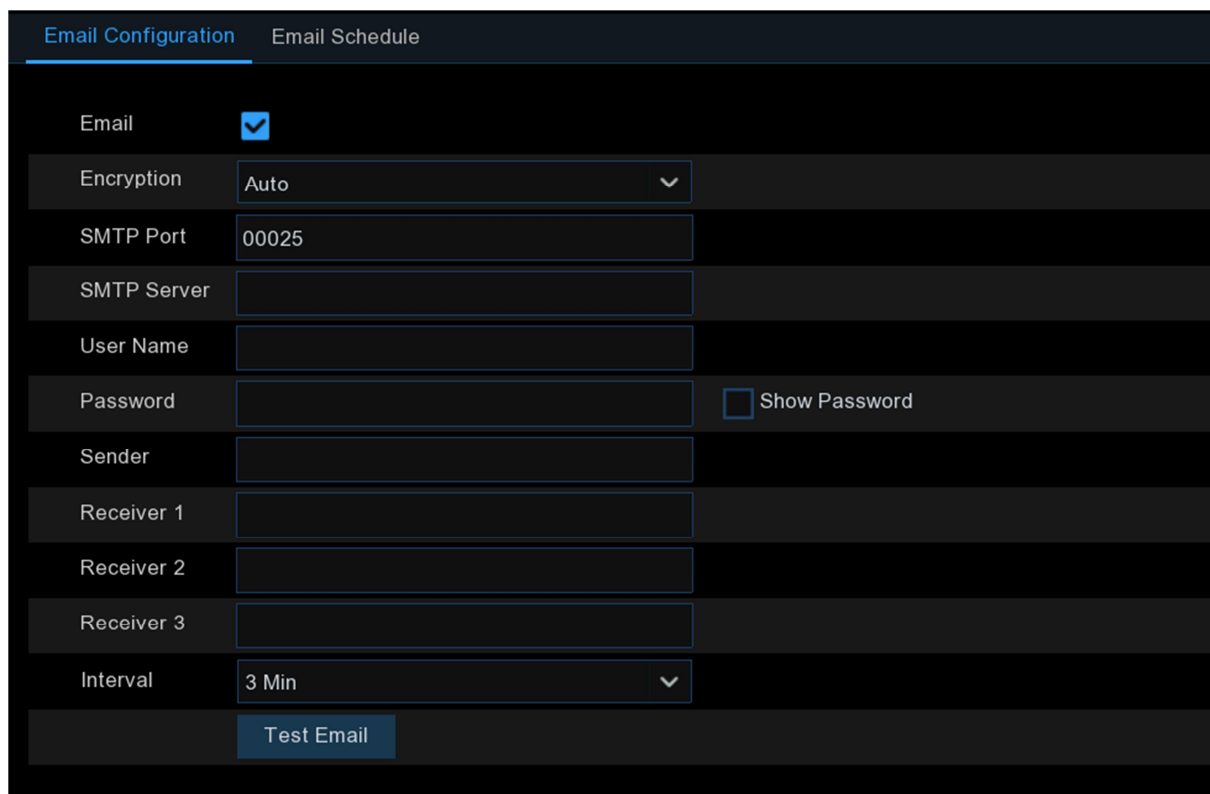
After all parameters are entered, click **Test DDNS** to test the DDNS settings. If the test result is "Network is unreachable or DNS is incorrect", please check whether the network is working, or the DDNS information is correct or not.

5.4.3 Email

This menu allows you to configure email settings. Please complete these settings if you want to receive system notifications on your email when an alarm is triggered, HDD becomes full, HDD is in error state, or Video Loss occurs.



5.4.3.1 Email Configuration



Email: Check to enable.

Encryption: Enable if your email server requires the SSL or TLS verification. If you are not sure, set to be **Auto**.

SMTP Port: Enter the SMTP port of your email server.

SMTP Server: Enter the SMTP server address of your email.

User Name: Enter your email address.

Password: Enter the password of your email.

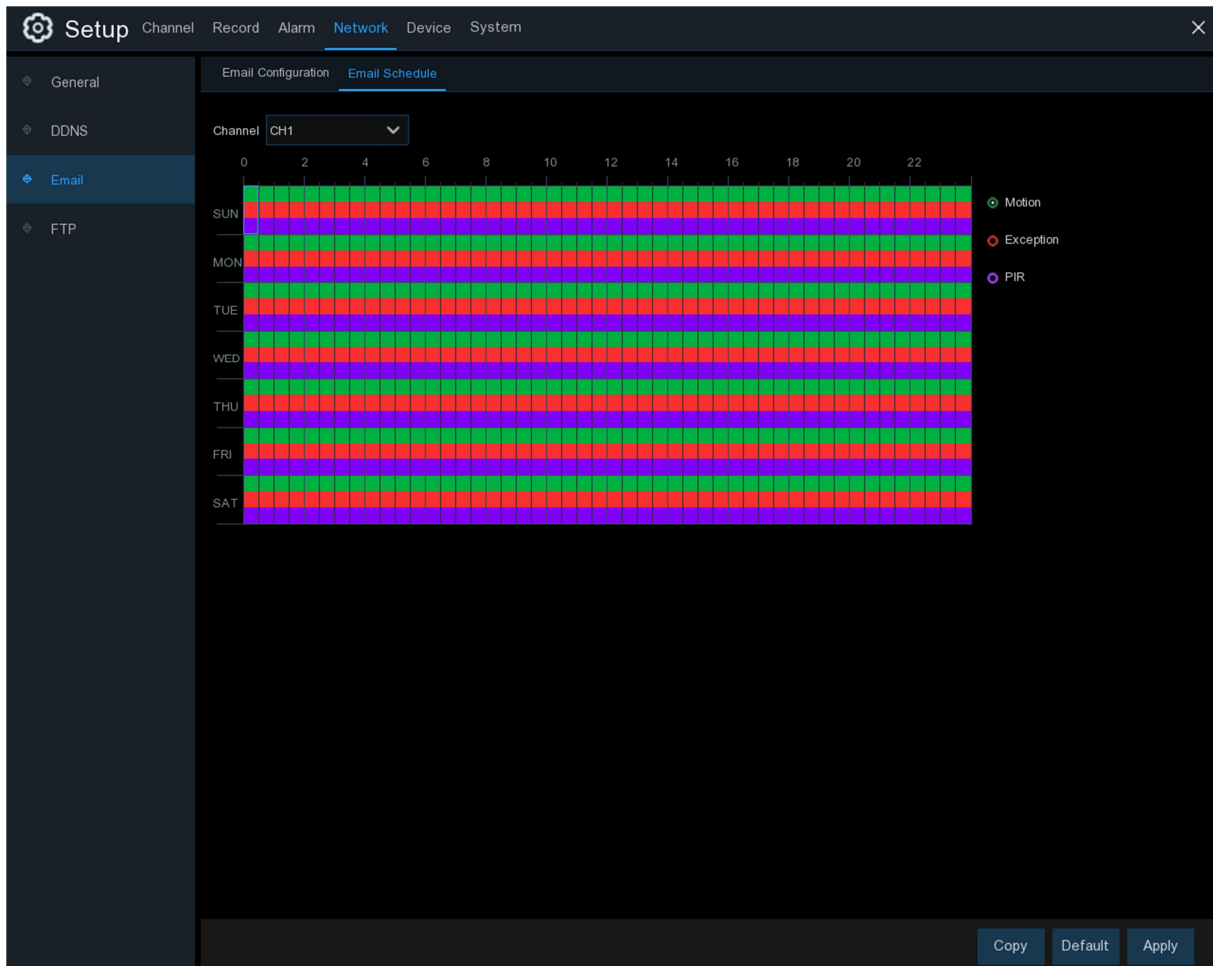
Receiver 1~3: Enter the email address where you want to receive the event notifications from the WIRELESS NVR.

Interval: Configure the length of the time interval between the notification emails from the WIRELESS NVR.

To make sure all settings are correct, click **Test Email**. The system will send an automated email message to your inbox. If you receive the test email, it means the configuration parameters are correct.

5.4.3.2 Email Schedule

You need to configure the schedule to fully implement the Email notification.



The color codes on the email schedule have the following meanings:

Green: Slot for Motion detection.

Red: Slot for Exception (HDD full, HDD error, or Video Loss).

Purple: Slot for PIR detection.

5.4.4 FTP

This menu allows you to enable FTP function to view and load captured snapshots from WIRELESS NVR to your storage device over FTP.

The screenshot shows the 'Setup' interface with the 'FTP' tab selected. The configuration options are as follows:

- FTP Enable:**
- Server IP:** [Empty text field]
- Port:** 00021
- User Name:** [Empty text field]
- Password:** [Empty text field] Show Password
- Directory Name:** [Empty text field]
- Test FTP:** [Button]
- Default:** [Button]
- Apply:** [Button]

FTP Enable: Click to enable FTP function.

Server IP: Enter your FTP server IP address or domain name.

Port: Enter the FTP port for file exchanges.

Name/ Password: Enter your FTP server user name and password.

Directory Name: Enter the default directory name for the FTP file exchanges.

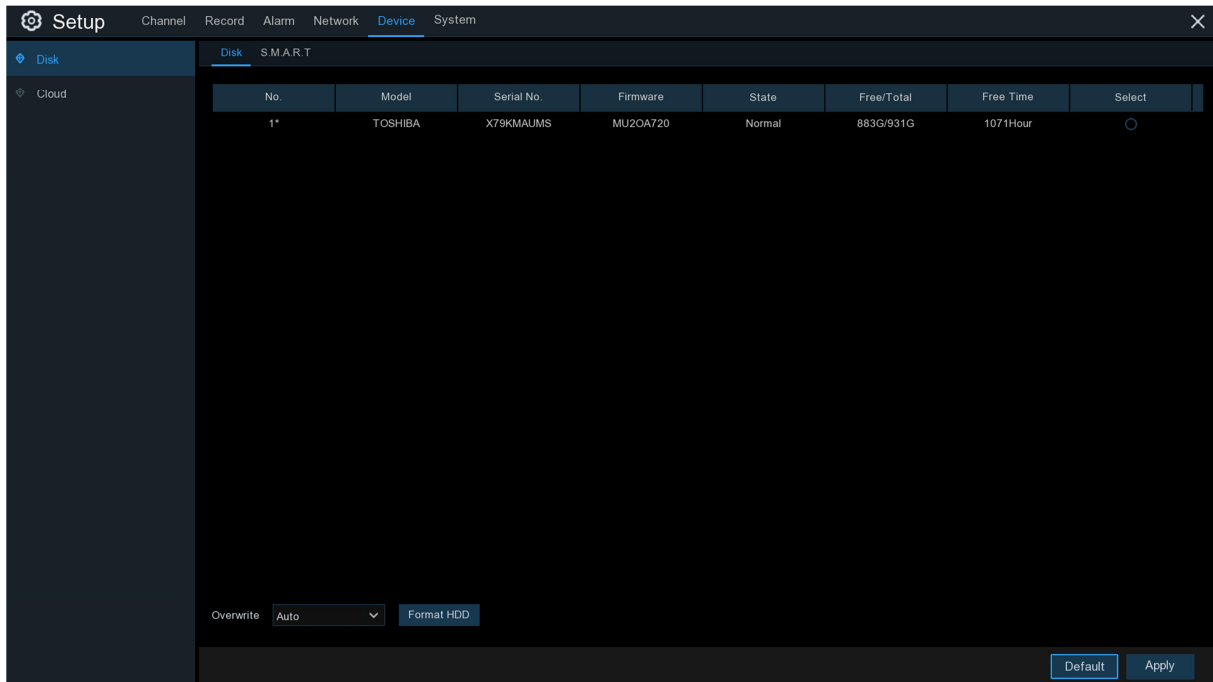
Test FTP: Click to test the FTP settings.

5. 5 Device

In this section you can configure the internal HDD function.

5. 5.1 Disk

This menu allows you to check & configure the internal HDD(s). You need to format the HDD only at the initial installation and if you replace a new HDD.



Format HDD: Select the HDD you want to format and then click **Format HDD**. To start formatting, you need to enter your user name and password and then click **OK** to confirm to continue formatting.

Overwrite: Use this option to overwrite the old recordings on the HDD when the HDD is full. For example, if you choose the option 7 days then only the last 7 days recordings are kept on the HDD. To prevent overwriting any old recordings, select **OFF**. If you have disabled this function, please check the HDD status regularly, to make sure the HDD is not full. Recording will be stopped if HDD is full.

5.5.2 S.M.A.R.T

This function can be used to display the technical information of the hard drive installed in your WIRELESS NVR. You can also perform a test (there are three types available) to evaluate and detect potential drive errors.

The screenshot shows the S.M.A.R.T. configuration page. At the top, there are tabs for Channel, Record, Alarm, Network, Device, and System. The 'Device' tab is active, and the 'S.M.A.R.T.' sub-tab is selected. The interface displays the following information:

- HDD ID: Disk 1
- Self-check Type: Short
- Self-check State: Not detected
- TEMP(°C): 40
- Utility Time(d): 47
- Whole Evaluation: PASSED
- A 'Check' button is visible.

Below this information is a table titled 'S.M.A.R.T. Info:' with the following columns: ID, Attribute Name, Status, Flags, Value, Worst, Threshold, and Raw Value.

ID	Attribute Name	Status	Flags	Value	Worst	Threshold	Raw Value
0x1	Raw Read Error Rate	OK	b	100	100	16	0
0x2	Throughput Performance	OK	5	100	100	54	0
0x3	Spin Up Time	OK	7	183	183	24	118 (Average 116)
0x4	Start Stop Count	OK	12	100	100	0	722
0x5	Reallocated Sector Ct	OK	33	100	100	5	0
0x7	Seek Error Rate	OK	b	100	100	67	0
0x8	Seek Time Performance	OK	5	100	100	20	0
0x9	Power On Hours	OK	12	100	100	0	1137
0xa	Spin Retry Count	OK	13	100	100	60	0
0xc	Power Cycle Count	OK	32	100	100	0	191
0xc0	Power-Off Retract Count	OK	32	100	100	0	723
0xc1	Load Cycle Count	OK	12	100	100	0	723
0xc2	Temperature Celsius	OK	2	150	150	0	40 (Min/Max 25/58)
0xc4	Reallocated Event Count	OK	32	100	100	0	0
0xc5	Current Pending Sector	OK	22	100	100	0	0
0xc6	Offline Uncorrectable	OK	8	100	100	0	0
0xc7	UDMA CRC Error Count	OK	a	200	200	0	9

Whole Evaluation not passed, continue to use the disk: If for some reason the hard drive has developed a fault (such as one or more bad sectors), you can instruct your WIRELESS NVR to continue saving to the drive.

Self-check Type: There are three types available:

Short: This test verifies major components of the hard drive such as read/write heads, electronics and internal memory.

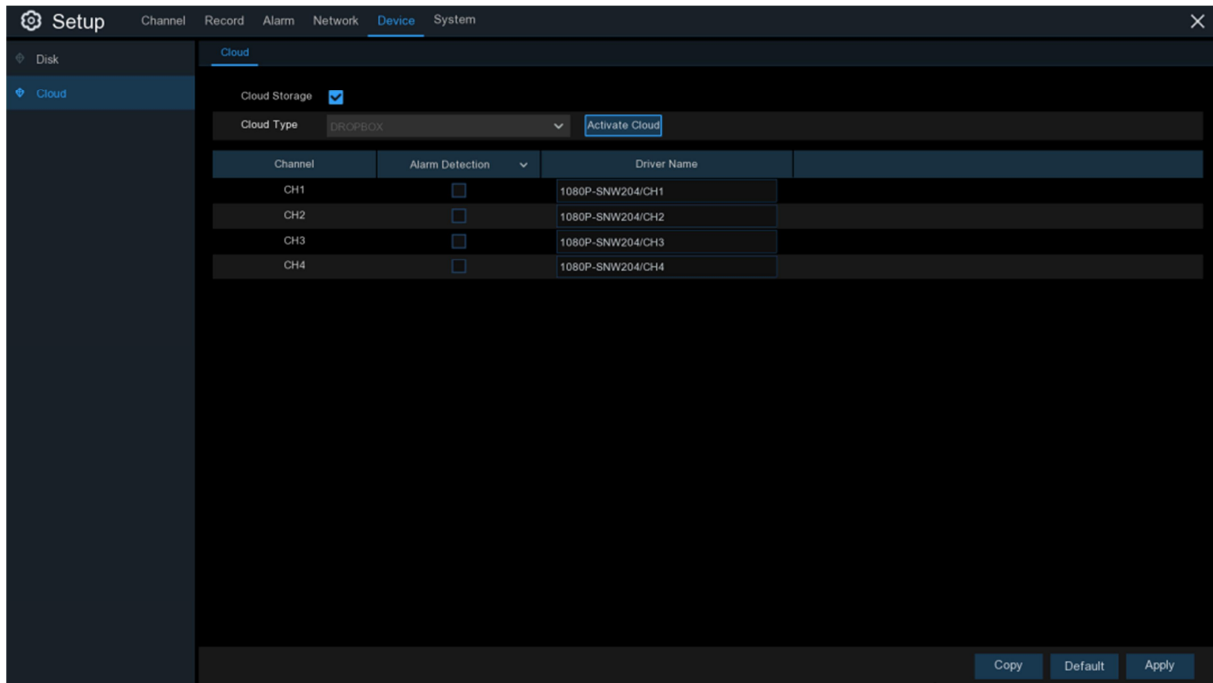
Long: This is a longer test that verifies the above as well as performing a surface scan to reveal problematic areas (if any) and forces bad sector relocation

Conveyance: This is a very quick test that verifies the mechanical parts of the hard drive are working.

Note: When performing a test, your WIRELESS NVR will continue to work as normal. If a HDD S.M.A.R.T error is found, the HDD can continue to be used, but there will be a risk of losing recorded data. It is recommended to consult your installer and get a new HDD.

5.5.3 Cloud

This menu allows configuration to see what is happening on your cameras anytime. You can upload the captured pictures to Dropbox in real time, or when motion detection happens.



Cloud Storage: Enable to allow cloud settings

Cloud Type: Only Dropbox cloud storage is supported currently

Channel: Select the channels where you want to upload the snapshots to Dropbox

Alarm Detection: Enable if you want to upload snapshots to Dropbox when the camera detects a motion

Drive Name: Enter the cloud storage name for your WIRELESS NVR

Activate Cloud: Click to activate the function. An activation email will be sent to the receiver's email account

Process to start uploading the snapshots

- 1) To use cloud backup, you need to register your email first. For details, please refer to page 35.
- 2) Register an account on <https://www.dropbox.com/>.
- 3) Configure your network to ensure your recorder is on the network.
- 4) **Configure Cloud:** Enable Cloud and set the channel. Enable Motion Detection to have it capture pictures when motion detection happens.
- 5) Driver Name refers to the name created in the Dropbox folder and the name can be defined by the user, e.g. 1080P-SNW204. The folder is to store captured pictures from the DVR.
- 6) Click [**Activate Cloud**] to activate Cloud and Email for the user verification will be sent. Click the link in the email and then log in to your dropbox account, and click permit. DVR cloud storage function will be activated. If you have logged

in your dropbox account before Cloud storage activation, there is no need to relogin. Just click Permit to complete the activation. Please finish the activation within 3 minutes. After activation is completed, you can use the Cloud storage function.

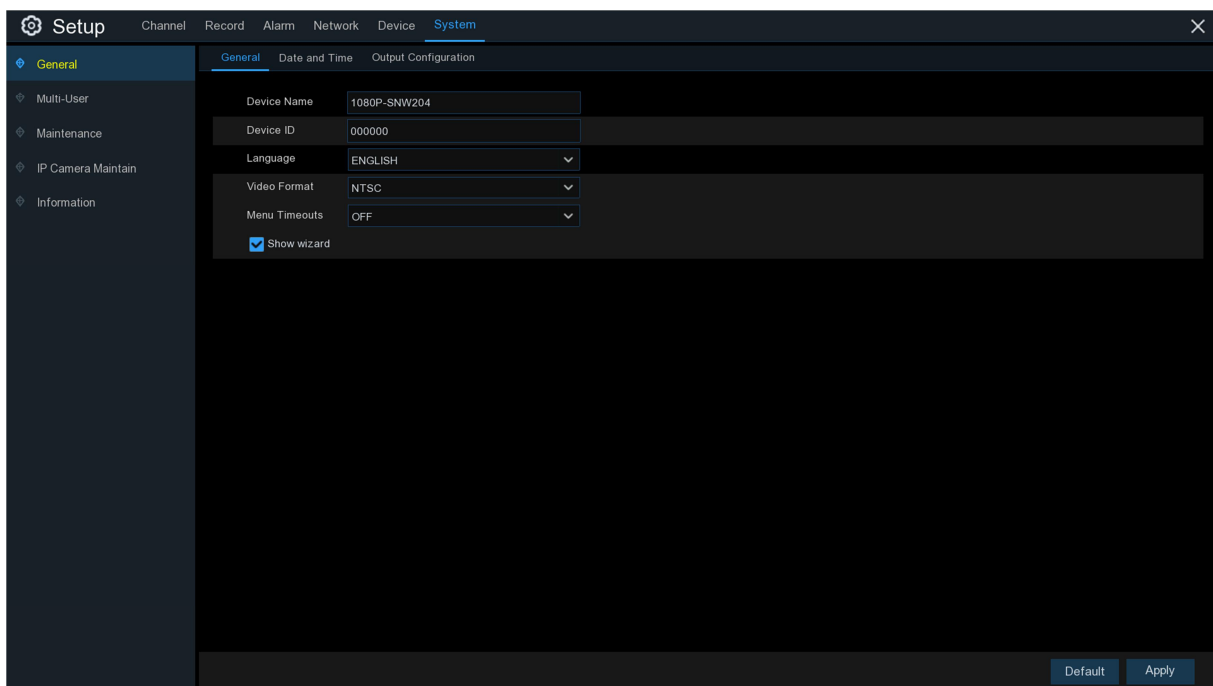
7) Click the icon at the upper-left of dropbox account interface to view the folder made in the 5th step.

8) Open the Dropbox folder to view the DVR captured pictures.

5.6 System

Change general system information such as date, time and region, edit passwords and permissions, and more.

5.6.1 General



Device Name: Enter the desired name for your WIRELESS NVR. The name can include both letters and numbers.

Device ID: Enter the desired ID for your WIRELESS NVR. The device ID is used to identify the WIRELESS NVR, and can only be composed of numbers. For example, if 2pcs WIRELESS NVRs are installed in the same place, create a Device ID of 000000 for one of the WIRELESS NVRs, and 111111 for another WIRELESS NVR. When you want to operate the WIRELESS NVR with a remote control, both of the WIRELESS NVR may receive the signal from controller & act at the same time. If you want to control only the WIRELESS NVR with ID 111111, you can input the Device ID 111111 in login page with remote control for further operation.

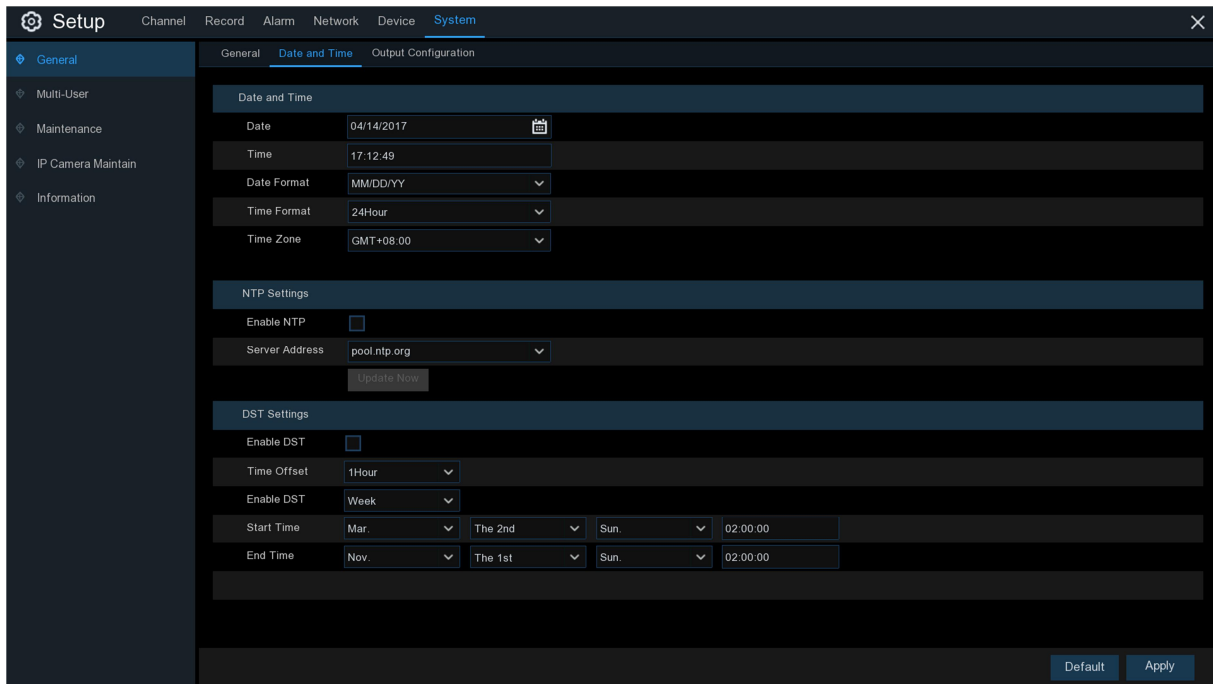
Language: Select a language you would like the system menus to be displayed in. Multiple languages are available.

Video Format: Select the correct video standard for your region.

Menu Timeouts: Click the drop-down menu to select the time your WIRELESS NVR will exit the Main Menu when idle. You can also disable this by selecting “OFF” (password protection will be temporarily disabled).

Show Wizard: Click the checkbox if you would like to display the Startup Wizard each time you turn on or reboot your WIRELESS NVR.

5.6.1.1 Date and Time



Date & Time

Date: Click the calendar icon to change the date.

Time: Click the dialogue box to change the time.

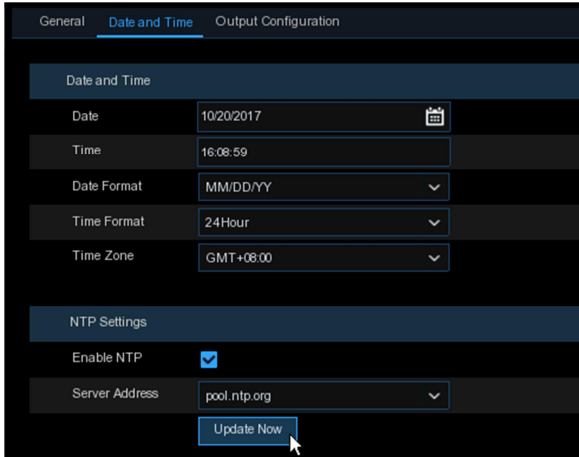
Date Format: Select the preferred date format.

Time Format: Select the preferred time format.

Time Zone: Select a time zone relevant to your region or city.

5.6.1.2 NTP Settings

The NTP (Network Time Protocol) function allows your WIRELESS NVR to automatically sync its clock with a time server. This gives it the ability to constantly have an accurate time setting (your WIRELESS NVR will periodically sync automatically).



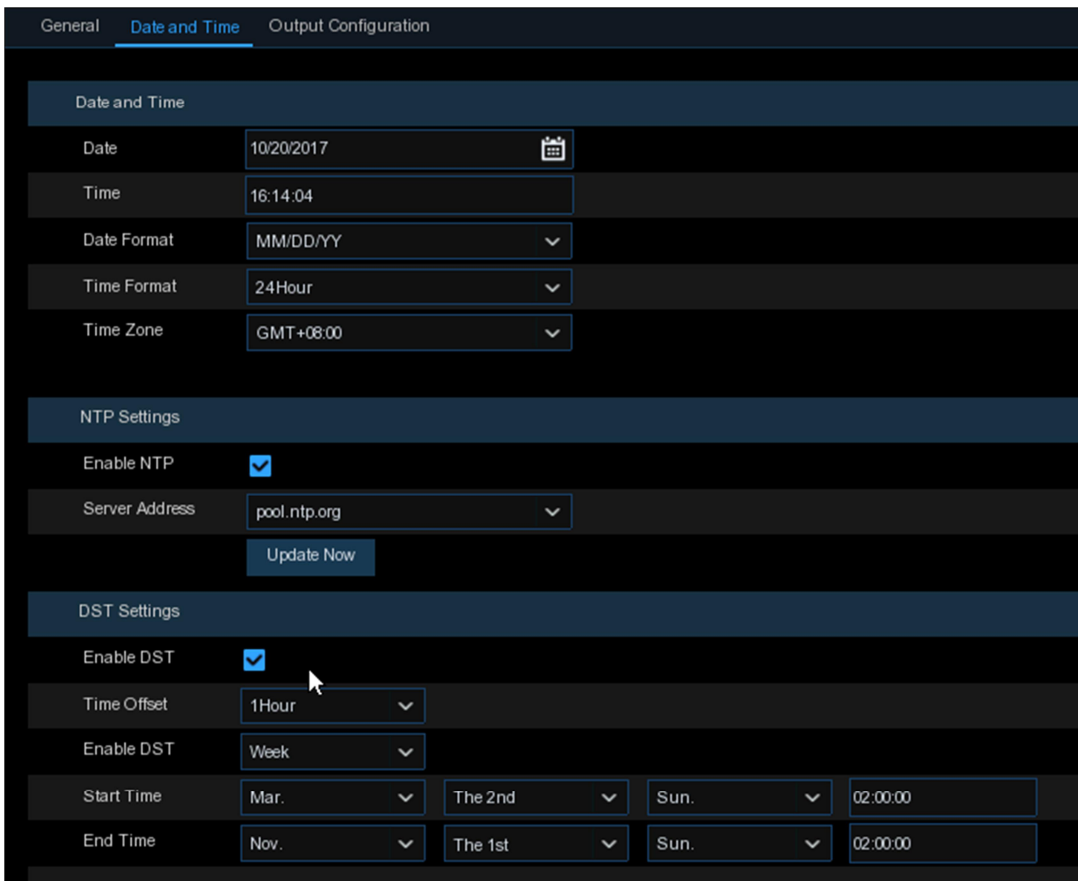
Check to enable the **NTP**, and select a **Server Address**, click Update Now to manually sync the date & time.

Click **Apply** to save your settings.

When NTP function is enabled, system will update the system time at 00:07:50 per day, or every time when the system is starting up.

5.6.1.3 DST Settings

The DST (Daylight Saving Time) function allows you to select the amount of time that Daylight Saving has increased by in your particular time zone or region.



Enable DST: If Daylight Saving applies to your time zone or region, check this option to enable.

Time Offset: Select the amount of time that Daylight Saving has increased by in your time zone.

This refers to the difference in minutes, between Coordinated Universal Time (UTC) and the local time.

Enable DST: You can select how Daylight Saving starts and ends:

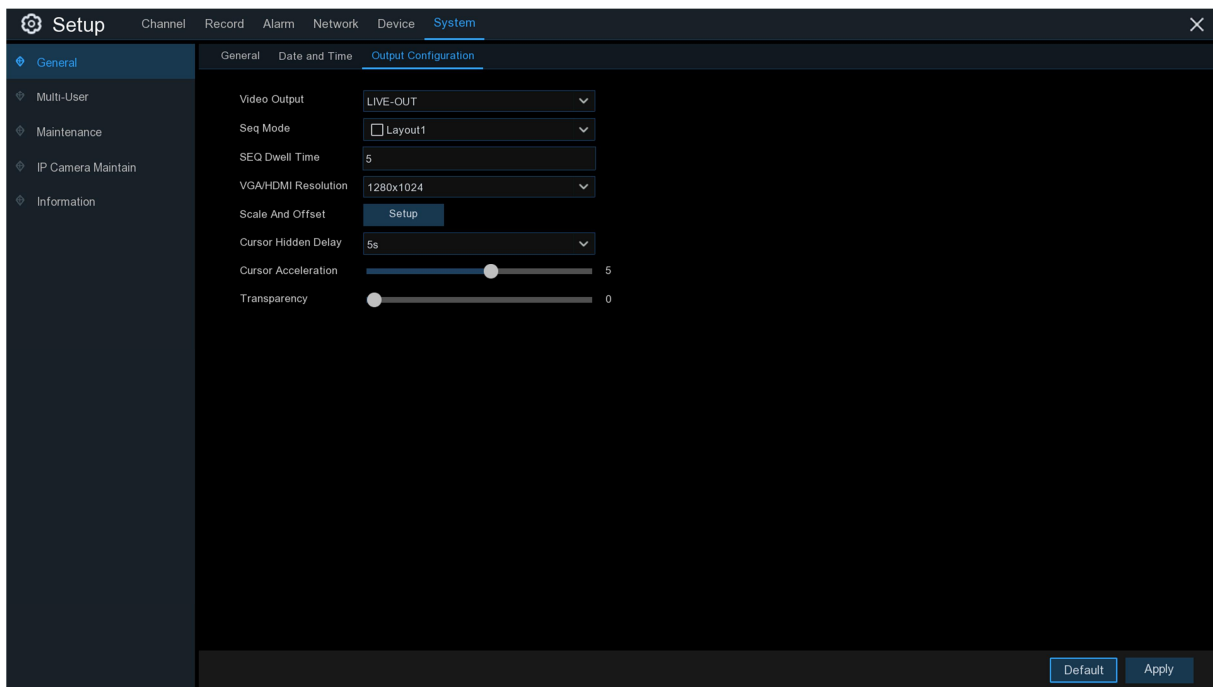
Week: Select the month, a particular day and time when Daylight Saving starts and ends. For example, 2 a.m. on the first Sunday of a particular month.

Date: Select the start date (click the calendar icon), end date and time when Daylight Saving starts and ends.

Start Time / End Time: Set the start time and end time for Daylight Saving.

5.6.2 Output Configuration

This menu allows you to configure video output parameters.



Video Output: To choose the output options:

LIVE-OUT is used to configure the main output parameters.