

QRT-502

IE Operation Manual

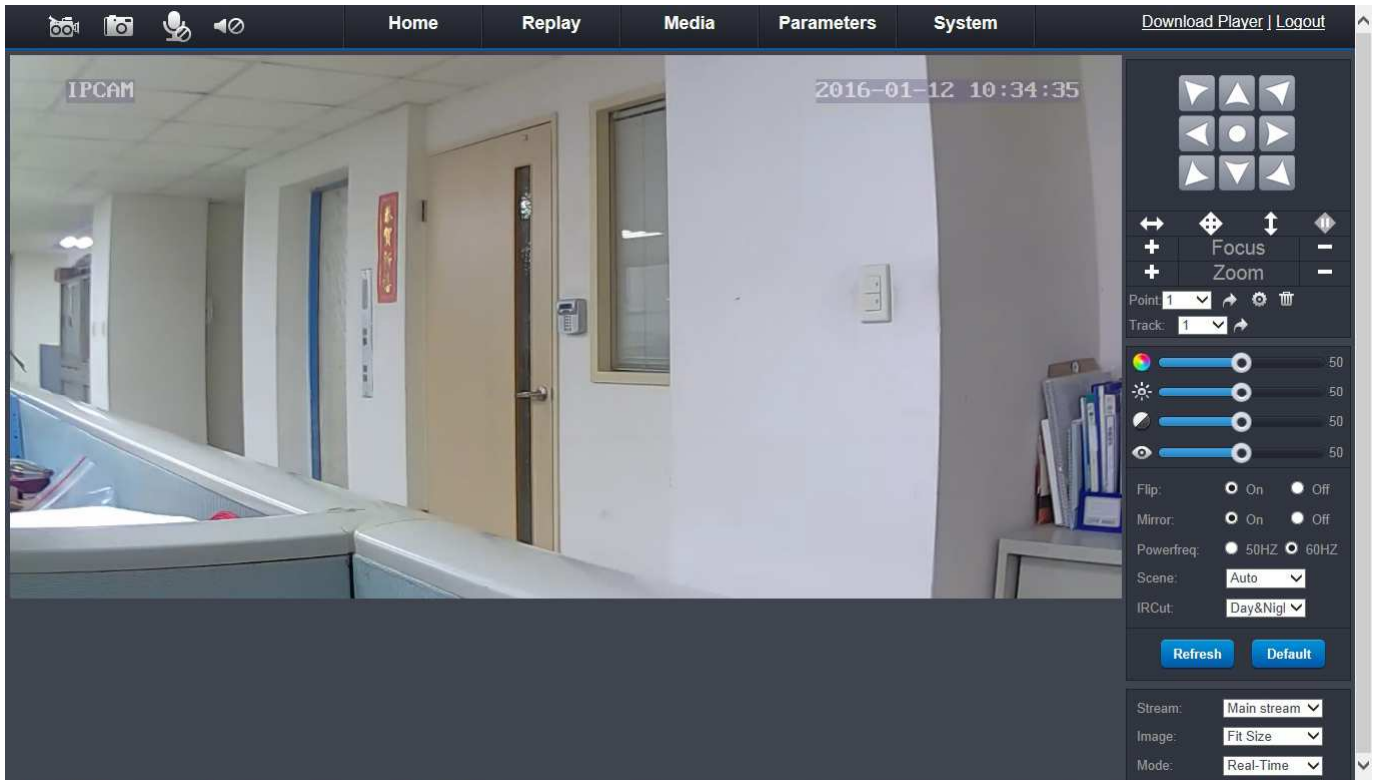
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1. Home

Live Viewing Screen

On this screen you see the live view from the connected camera.



Quick camera toolbar



A) Recording button: Click to start recording manually.

B) Snap-shooting button: Click to take snapshot of the screen.

C) Talkback button: Click to listen/talk.

D) Voice button: Click to turn on/off voice

PT direction control panel

Not supported in QRT-502



Adjustment panel



A) Chrominance: Drag to adjust chrominance manually.

B) Brightness: Drag to adjust brightness manually.

C) Contrast: Drag to adjust contrast manually.

D) Color saturation: Drag to adjust color saturation manually.

Parameters panel



A) Flip setting: Click on/off to flip image.

B) Mirror setting: Click on/off to mirror image.

C) Video format: Click to change video format to NTSC / PAL.

D) Scene setting: The available options include Auto, Indoor and Outdoor.

E) IRCut: The available options include Day&Night, Color and Black&White.

F) Refresh button.

G) Load default: Click to load default.

H) Video stream setting:

Main Stream: The parameters of main stream define the image quality saved into Micro-SD card.

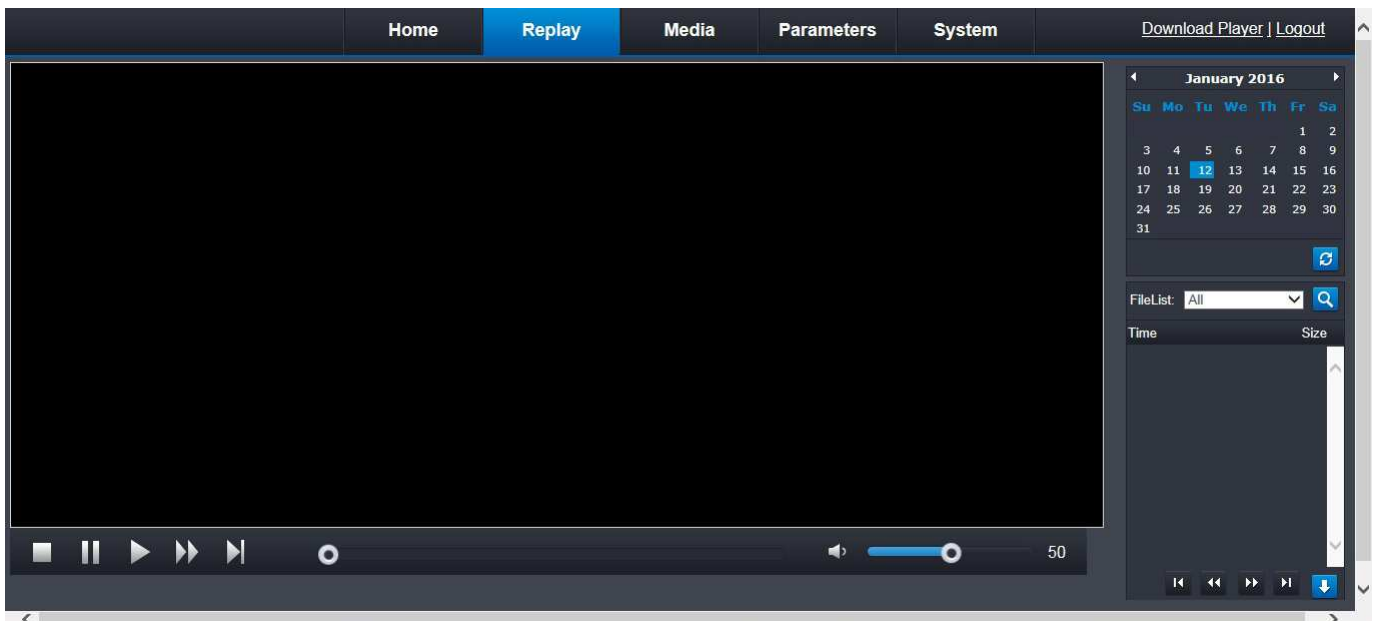
Sub Stream: The parameters of sub stream define how the images will be visible over the Internet via PC. By default it has much lower quality than the main stream.

I) Display size setting: The available options include Fit Size and Screen Size.



J) View effect: The available options include Real-time and Smooth, Real-time is smoother when playing videos.

2. Replay

Replay is used for search and playback video from the Micro-SD card inside of your camera.




Search and playback recorded video:

1. Click on  to search all recordings by date.
2. Specify the date (with red background) from the on-screen calendar.
3. Click on  to look for the recorded videos on that day.
4. The result is displayed in the Time table. Choose a period of time and double-click on it to play recorded video.



Backup video:

Choose a period of time and click on  to save the recorded video to your local device.

3. Media

3-1. Video

Main Stream: The parameters of main stream define the image quality saved into Micro-SD card.

Sub Stream: The parameters of sub stream define how the images will be visible over the Internet via PC. Usually it has much lower quality than the main stream.

The screenshot shows a web interface for configuring camera media parameters. At the top, there are navigation tabs: Home, Replay, Media (selected), Parameters, and System. On the right of the top bar, there are links for 'Download Player' and 'Logout'. On the left, under the 'Camera' section, there is a menu with 'Video' (selected), Audio, Image, OSD, and PTZ. The main content area is divided into two sections: 'Main Stream' and 'Sub Stream'. Each section contains several configuration fields: Resolution (dropdown), Bit Rate (dropdown), Maximum Frame (dropdown), Bit Rate Type (dropdown), and I Frame Gap (text input with a 'Great than or equal to' note). At the bottom of the configuration area, there is a 'Norm:' section with radio buttons for 'PAL' (selected) and 'NTSC'. At the very bottom, there are 'Apply' and 'Cancel' buttons.

Parameter	Main Stream	Sub Stream
Resolution	1280x720	640x360
Bit Rate	1536	512
Maximum Frame	20	20
Bit Rate Type	Variable bitrate	Variable bitrate
I Frame Gap	20	25
Norm	PAL (selected), NTSC	

Resolution: This parameter defines, how large the recorded images will be. The available options include:

Main Stream: 1280x720, 640x360

Sub Stream: 704x576, 640x360, 320x180

Bit Rate: This parameter corresponds to the speed of data transfer that the camera will use to record video. Recordings that are encoded at higher bitrates, will be of better quality.

Maximum frame: This parameter defines, how many images per second, the available options is 1~25

Bit Rate Type:

CBR: The bit rate is fixed.

VBR: The variable code rate is changed according to the size of the image data of the camera (the bit rate will be reduced in a static environment but increased in a dynamic environment)

I Frame Gap: I frame gap means Inter-frame gap, bigger inter-frame gap brings lower image quality but it is more efficient for data transmission over Internet.

Norm: Click to change video format to NTSC/PAL.

3-2. Audio

Configure the recorded audio parameters here.

The screenshot shows a web application interface with a dark theme. At the top, there is a navigation bar with tabs: Home, Replay, Media, Parameters, and System. To the right of the tabs are links for 'Download Player' and 'Logout'. Below the navigation bar, on the left, is a sidebar menu under the heading 'Camera'. The menu items are Video, Audio (which is highlighted in blue), Image, OSD, and PTZ. The main content area displays the 'Audio' configuration settings. These settings include: 'Encoded Format' with a dropdown menu showing 'G711a'; 'Input Gain' with a text input field showing '80'; 'Output Vol' with a text input field showing '100'; 'Main Stream' with two radio buttons, 'On' (selected) and 'Off'; and 'Sub Stream' with two radio buttons, 'On' (selected) and 'Off'. At the bottom of the configuration area, there are two buttons: 'Apply' and 'Cancel'.

Encoded Format: The available options include G711u and G726.

Input Gain: Is available from 0~100 (quiet ~ loud).

Output Vol: Is available from 0~100 (quiet ~ loud).

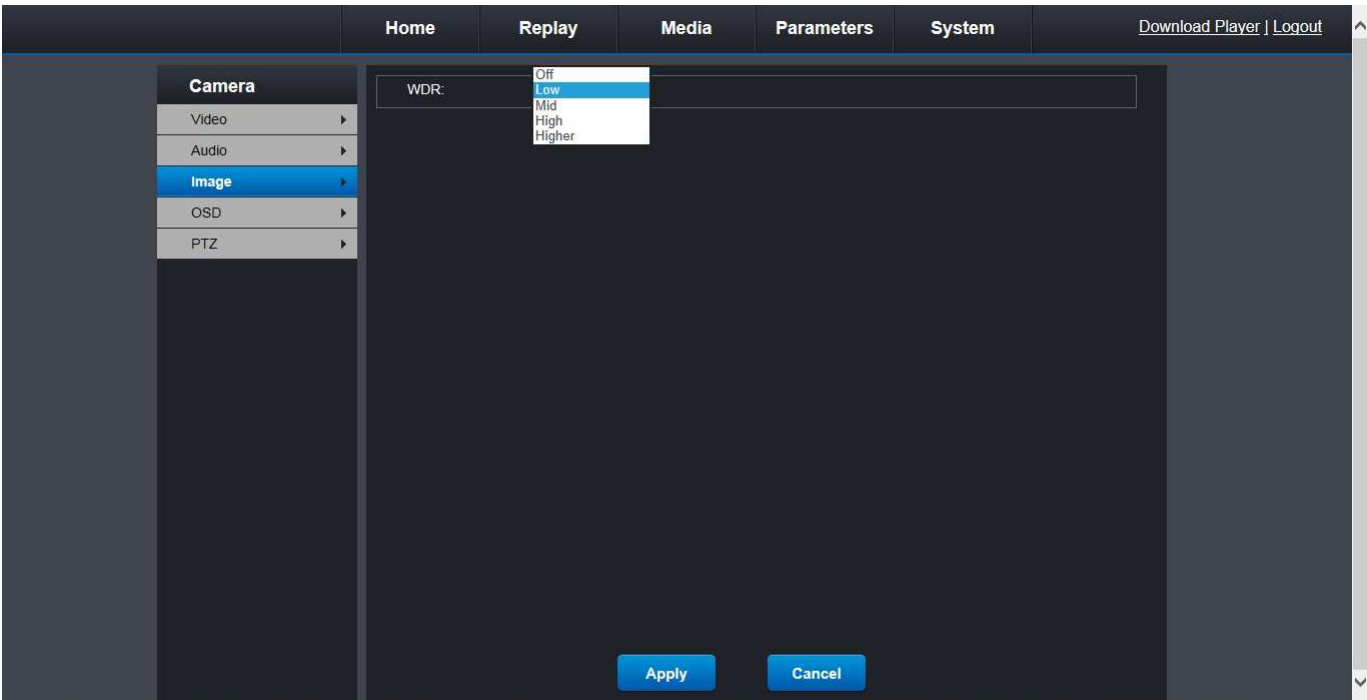
Main Stream: Select on/off to decide if you want to record the sound from camera when it is in main stream.

Sub Stream: Select on/off to decide if you want to record the sound from camera when it is in sub stream.

3-3. Image

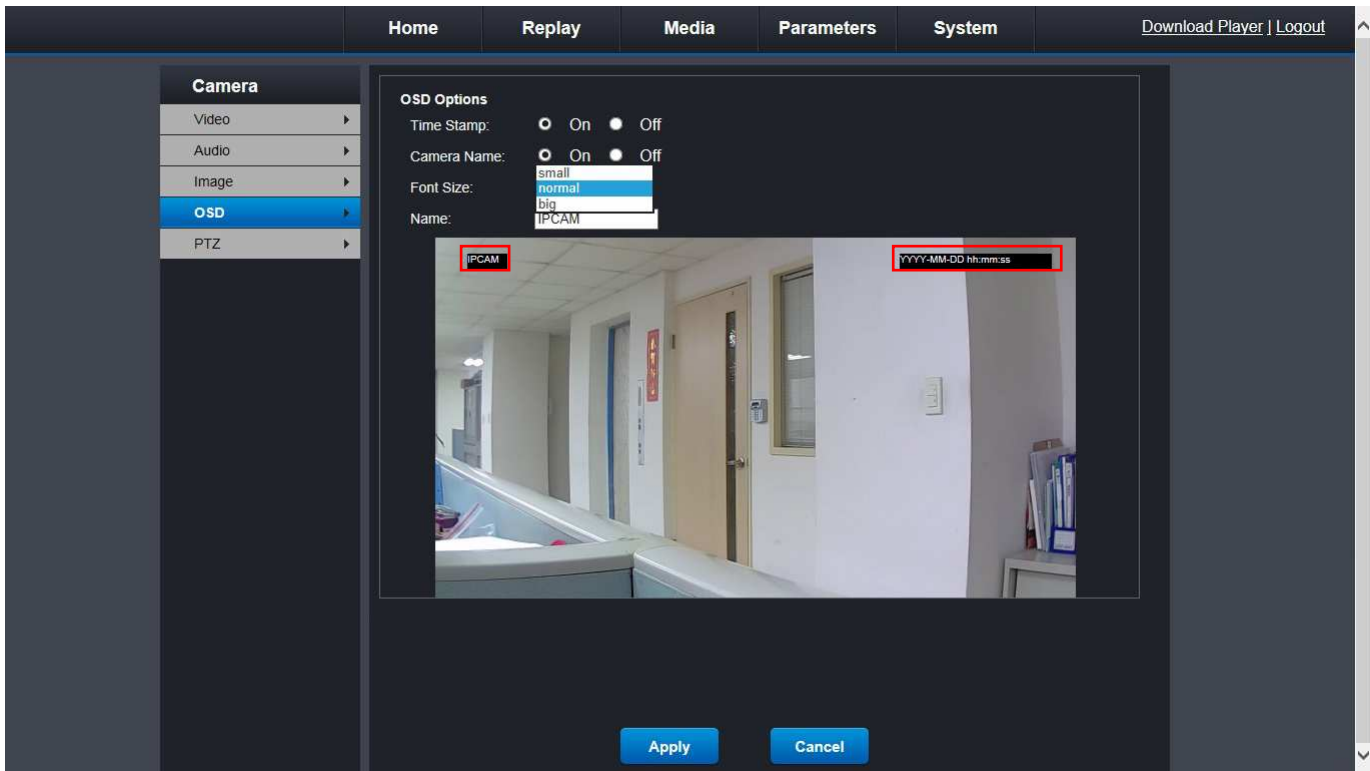
Turn on/off WDR function.

The available options include: Off, Low, Mid, High, Higher.



3-4. OSD

In this menu you can configure how the time, date and camera name are displayed on the live viewing screen.



Time Stamp: Select on/off to display/hide the time on live viewing screen.

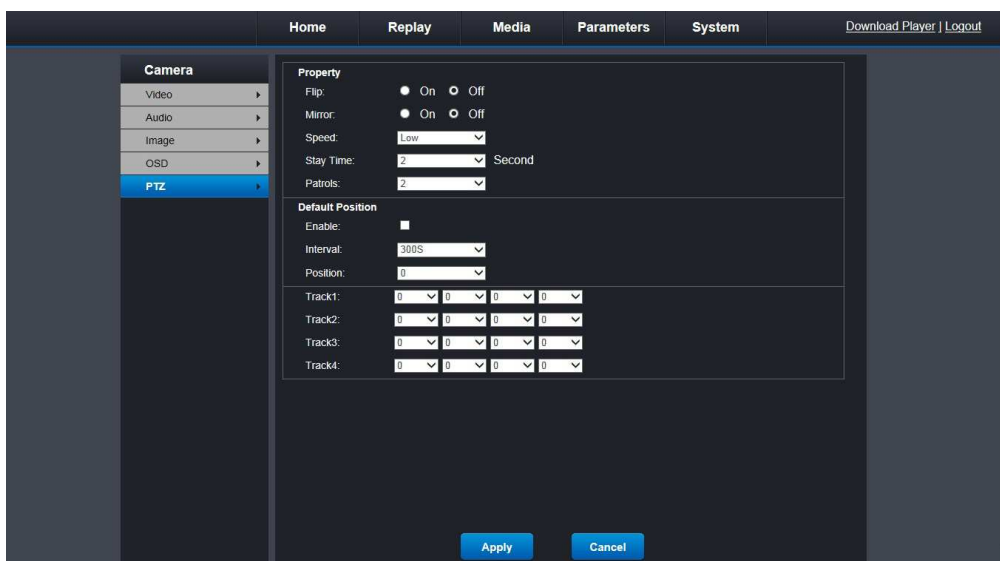
Camera Name: Select on/off to display/hide the camera name on live viewing screen.

Font Size: Select front size from the drop-down menu for time stamp and camera name.

Name: Rename your camera.

3-5. PTZ

Not supported in QRT-502.



4. Parameters

4-1. Network

If you want to use your smart phone/tablet/PC for remote monitoring, upload photos/videos to FTP, send e-mail, etc., please complete the network settings.

4-1-1. IP Setting

The most common types are **Dynamic IP** or **Fixed IP**. Most probably your network type is **Dynamic IP**, unless the network is *manually* addressed. If you are not sure in your network type, please contact your ISP (Internet Service Provider).

Dynamic IP (DNS: DHCP)

If you choose this type, then the network settings will be filled automatically.

The screenshot shows a web interface for configuring network parameters. At the top, there are tabs: Home, Replay, Media, Parameters (selected), and System. On the right side of the top bar, there are links for 'Download Player' and 'Logout'. On the left side, there is a sidebar menu with categories: Network (containing IP Settings, DDNS, E-Mail, Wifi, P2P, and FTP), Event (containing Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, and Privacy Mask), and a blank section. The main content area is titled 'Settings for LAN and Wireless'. It contains the following fields: IP Type (set to Dynamic IP), DNS Type (set to From DHCP), HTTP Port (80), RTSP Port (554), Onvif Port (1018), and a Network Test section with a 'Wan Test' input field and a 'Test' button. At the bottom of the main content area, there are 'Apply' and 'Cancel' buttons.

Category	Item
Network	IP Settings
	DDNS
	E-Mail
	Wifi
	P2P
	FTP
Event	Motion Detect
	Occlusion Detect
	Alarm in out
	Snapshot
	Record
	Privacy Mask

Settings for LAN and Wireless

IP Type:

DNS Type:

HTTP:
Port: (80 or 1024~32767)

RTSP:
Port: (554 or 1024~32767)

Onvif:
Port: (1018 or 1024~32767, must reboot)

Network Test:
Wan Test:

Network Test: Not supported in QRT-502

Click Apply to save the settings.

Dynamic IP (DNS: Manual)

If you choose this type, then you have to fill all required network settings manually.

NOTE: If you are not sure in network settings, ask your ISP (Internet Service Provider).

The screenshot shows the 'Parameters' tab of a camera's web interface. The left sidebar has a 'Network' section with 'IP Settings' selected. The main area is titled 'Settings for LAN and Wireless'. It includes fields for IP Type (Dynamic IP), DNS Type (Manual), Primary DNS (168.95.1.1), and Second DNS (192.168.1.1). Below these are sections for HTTP Port (80), RTSP Port (554), and Onvif Port (1018), each with a note about the port range (80 or 1024~32767). At the bottom, there is a 'Network Test' section with a 'Wan Test' input field and a 'Test' button. 'Apply' and 'Cancel' buttons are at the very bottom.

Primary DNS / Second DNS: DNS stands for Domain Name System where **Primary DNS** is the main DNS server and **Second**.

DNS is the backup server if the **Primary DNS** is not accessible. DNS server settings must be properly configured if you want to use the E-mail notification, NTP or DDNS, etc. If you are not sure what your DNS address is, please ask your ISP.

HTTP Port: Is the port that you will use to log in to the camera (for example, using IE browser). The port must be unique.

When you use the default port 80, and it is already taken by other applications, please change the port, for example, 85. In this case, you need to add the port number after the IP address. For example, if you use fixed address, you need to enter the IP address as "010.000.100.187:85" in the URL box when logging in through IE browser.

RTSP Port: Is the port that the camera will use to send information through. The port must be unique. When you use the default port 554, and it is already taken by other devices or applications, please change the port and remember it because you need to use it when logging in remotely to the camera (IE browser). This setting is for advanced users.

Onvif: Is the port that used for Onvif, The port must be unique. When you use the default port 1018, and it is already taken by other applications, please change the port.

Network Test: Not supported in QRT-502

Click Apply to save the settings.

Fixed IP

If you choose this type, then you have to fill all required network settings manually.

NOTE: If you are not sure in network settings, ask your ISP (Internet Service Provider).

The screenshot shows the 'Parameters' tab in the camera's web interface. The 'Network' section is expanded, and 'IP Settings' is selected. The 'Settings for LAN and Wireless' section contains the following fields:

- IP Type: Fixed IP (dropdown)
- IP Address: 192.168.1.218
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.1.1
- DNS Type: Manual (dropdown)
- Primary DNS: 168.95.1.1
- Second DNS: 192.168.1.1

Below these are sections for HTTP, RTSP, and Onvif ports, each with a 'Test' button:

- HTTP: Port: 80 (80 or 1024~32767)
- RTSP: Port: 554 (554 or 1024~32767)
- Onvif: Port: 1018 (1018 or 1024~32767, must reboot)

At the bottom are 'Apply' and 'Cancel' buttons.

IP Address: The IP address identifies the camera in the network. The IP address consists of four groups of numbers between 0 to 255, separated by periods. For example, "192.168.1.1". If your network type is **Fixed IP**, and you are not sure what the IP address is, please ask your ISP.

Subnet Mask: Subnet mask defines a range of IP addresses that can be used in a network. If IP address is like a street where you live then subnet mask is like a neighborhood. The subnet address consists of four groups of numbers, separated by periods. For example, "255.255.255.000". If your network type is **Fixed IP** and you are not sure what the subnet mask address is, please ask your ISP.

Gateway: This address allows the camera to access the Internet. The format of the **Gateway** address is the same as the **IP Address** has. For example, "192.168.1.1". If your network type is **Fixed IP** and you are not sure what the Gateway is, please ask your ISP.

Primary DNS / Second DNS: DNS stands for Domain Name System where **Primary DNS** is the main DNS server and **Second DNS** is the backup server if the **Primary DNS** is not accessible. DNS server settings must be properly configured if you want to use the E-mail notification, NTP or DDNS, etc. If you are not sure, what your DNS address is, please ask your ISP.

HTTP Port: Is the port that you will use to log in to the camera (for example, using IE browser). The port must be unique. When you use the default port 80, and it is already taken by other applications, please change the port, for example, 85. In this case, you need to add the port number after the IP address. For example, if you use fixed address, you need to enter the IP address as "010.000.100.187:85" in the URL box when logging in through IE browser.

RTSP Port: Is the port that the camera will use to send information through. The port must be unique. When you use the default port 554, and it is already taken by other devices or applications, please change the port and remember it because you

need to use it when logging in remotely to the camera (IE browser). This setting is for advanced users.

Onvif: Is the port that used for Onvif, The port must be unique. When you use the default port 1018, and it is already taken by other applications, please change the port.

Network Test: Not supported in QRT-502

Click Apply to save the settings.

4-1-2. DDNS

The reason why you may need to configure DDNS settings is when your camera is connected to a network where the IP address is assigned by the DHCP server. In this case, every time you start up the camera, the IP address will change. A dynamic IP address is a problem when you want to connect remotely to the camera via PC. As a solution, you can use the DDNS (Dynamic DNS) service. The DDNS provides a static address to simplify remote connection to your camera.

To use the DDNS, you first need to open an account on the DDNS service provider's web page. For example, 3322.org, DynDNS.org.

Dynamic DNS:

Status: ☒ On ☐ Off

Provider: 3322.org

Username: username

Password: *****

Your Domain: youdomain.f3322.org

Apply Cancel

Status: Turn on/off DDNS.

Provider: Select the preferred DDNS server. The available options are 3322, DYNDNS.

NOTE: If you do not have a DDNS account yet, you need to create one on the DDNS service provider's web page.

Username: Enter the user name you obtained when creating an account on the DDNS service provider's web page.

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

Your Domain: Enter the domain name you created on the DDNS service provider's web page. For example, myIPC.dyndns.org.

This will be the address you type in the URL box when you want to connect remotely to the camera via PC.

Click Apply to save the settings.

4-1-3. E-Mail

Please complete the Email settings if you want to receive a notification e-mail when a motion is detected.

The screenshot shows a web interface with a dark theme. At the top, there are tabs: Home, Replay, Media, Parameters, and System. The System tab is active. In the top right corner, there are links for 'Download Player' and 'Logout'. On the left side, there is a sidebar menu with categories: Network (IP Settings, DDNS, E-Mail, Wifi, P2P, FTP) and Event (Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, Privacy Mask). The E-Mail option under Network is selected. The main content area displays the 'E-Mail Setting' form. The form includes fields for 'From As:', 'Server name:', 'Port:', 'SSL:', 'Authentication:', 'User Name:', 'Password:', and 'Send To:'. The 'From As:' field contains 'username@server.com', 'Server name:' contains 'smtp.server.com', 'Port:' contains '25', 'SSL:' is unchecked, 'Authentication:' has 'On' selected, 'User Name:' contains 'username@server.com', 'Password:' is masked with dots, and 'Send To:' contains 'username@server.com'. There is a 'Test' button next to the 'Send To:' field. At the bottom of the form, there are 'Apply' and 'Cancel' buttons.

From As: Enter your e-mail address.

Server name: Enter the SMTP server address of your e-mail.

Port: Enter the SMTP port of your e-mail server. For example, if you are using Gmail, the SMTP port is 465.

SSL: Enable if your e-mail server requires the SSL verification. If you are not sure, please consult your e-mail service provider. For example, if you are using Gmail then this option should be enabled.

Authentication: Enable if your e-mail server requires the Authentication. If you are not sure, please consult your e-mail service provider.

User Name: Enter the user name of your e-mail.

Password: Enter the password of your e-mail.

Send to: Enter the e-mail address where you want to receive the notifications from the camera.

Click Apply to save the settings.

4-1-4. Wifi

In this menu you can view the current status of WiFi connection.

Besides, you can change your camera's WiFi connection from the current WiFi router to the other WiFi router.

The screenshot shows the camera's web interface with the 'Wifi' menu selected. The 'Wireless' section is active, displaying the current connection status as 'Connected' for the 'KGPM' SSID. A table lists available WiFi networks with their SSIDs, signal strengths, and authentication modes. Below the table, there are input fields for SSID, Auth Mode, and Password, along with a 'Search' button. At the bottom, there are 'Apply' and 'Cancel' buttons.

SSID	Signal	Auth Mode
kguard_2.4G	100%	[WPA2-PSK-CCMP][WPS][ESS]
KGRD2	100%	[WPA2-PSK-CCMP][ESS]
KGPM	100%	[WPA2-PSK-CCMP][ESS]
KworldTest	100%	[WPA-PSK-TKIP][ESS]
kguardsecurity	100%	[WPA-PSK-CCMP+TKIP][WPA2-PSK-CCMP+TKIP][ESS]
KworldWireless	100%	[WPA-EAP-TKIP][ESS]
KworldWireless	93%	[WPA-EAP-TKIP][ESS]
SystemRD3	89%	[WPA2-PSK-CCMP][WPS][ESS]
test	89%	[WPA-PSK-TKIP][WPA2-PSK-CCMP][ESS]
GSM350	85%	[WPA2-PSK-CCMP][ESS]

Change WiFi connection from current WiFi router to the other WiFi router:

1. Click on **Search** to search available WiFi router near your camera.
2. Choose the WiFi router you want to connect to your camera.
3. Choose **Auth Mode** according to the WiFi router, normally it is WPA/WPA2.
4. Enter the Password of the WiFi router.
5. Click on **Testing** to check if the WiFi Router is okay for linking.
6. Click **Apply** to save the settings.

4-1-5. P2P

In this menu you can view the P2P information of your camera.

The screenshot shows a web interface for configuring a camera. At the top, there is a navigation bar with tabs: Home, Replay, Media, Parameters, System, and Download Player | Logout. On the left side, there is a sidebar menu with categories: Network (IP Settings, DDNS, E-Mail, Wifi, P2P, FTP) and Event (Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, Privacy Mask). The P2P option is selected and highlighted in blue. The main content area displays the P2P configuration settings: Status is checked and labeled 'Enable', ID is 'KOCG-004032-EZXJT', and Password is 'admin'. At the bottom of the main area, there are 'Apply' and 'Cancel' buttons.

Category	Item
Network	IP Settings
	DDNS
	E-Mail
	Wifi
	P2P
	FTP
Event	Motion Detect
	Occlusion Detect
	Alarm in out
	Snapshot
	Record
	Privacy Mask

P2P:

Status: ☒ Enable

ID: KOCG-004032-EZXJT

Password: admin

Apply Cancel

Status: It must be **Enable** because your camera is connecting now.

ID: The ID number is the same as the QR code on your camera. It is unique and fixed for every camera.

Password: The password of your camera.

4-1-6. FTP

You can configure FPT parameters here if you want to upload photos/videos to FTP.

The screenshot shows a web application interface for configuring FTP settings. At the top, there is a navigation bar with tabs: Home, Replay, Media, Parameters, and System. On the right side of the navigation bar, there are links for 'Download Player' and 'Logout'. Below the navigation bar, there is a left sidebar with a 'Network' section containing links for IP Settings, DDNS, E-Mail, Wifi, P2P, and FTP (which is currently selected). Below the 'Network' section is an 'Event' section with links for Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, and Privacy Mask. The main content area displays the FTP configuration form. It includes fields for 'Server', 'Port' (set to 21), 'User', and 'Password'. There are checkboxes for 'mkdir' (checked) and 'Overwrite' (unchecked), both with an 'Enable' label. A 'Path' field is set to '/ipc/'. A 'Test' button is located next to the 'Path' field. At the bottom of the form, there are 'Apply' and 'Cancel' buttons.

Server: Enter the FTP server IP address.

Port: Enter the FTP port for file exchange.

User: Enter your FTP user name.

Password: Enter your FTP password.

mkdir: Check to create a directory to upload photos/video.

Overwrite: Check to overwrite existing recording with the same file name.

Path: Set the path to the directory.

Click Apply to save the settings.

4-2. Event

4-2-1. Motion Detect

By default, the whole screen is marked for motion detection (red block). If you want to disable motion detection on an area, you need to click the grid cursor and then drag the mouse to highlight the scope to unmark the area (transparent block) for motion detection.

The screenshot shows the 'Motion Detect' configuration page. The top navigation bar includes 'Home', 'Replay', 'Media', 'Parameters', and 'System'. The left sidebar has 'Network' and 'Event' sections. Under 'Event', 'Motion Detect' is highlighted. The main content area features a large red rectangle representing the motion detection area. Below the rectangle, there are settings for 'Area' (Activate: ☐ Enable), 'Sensitivity' (High), 'Alarm Interval' (10 Seconds(5-60)), and 'Action' (Send E-mail, Alarm With Snapshot, Alarm With Record, Trigger Alarm Output, Trigger Alarm Audio). The 'Schedule' section has radio buttons for 'Week Mode', 'Work Mode', and 'Always' (selected). There are 'Apply' and 'Cancel' buttons at the bottom.

Activate: Enable this feature.

Sensitivity: Select the sensitivity level, the available options include: Very High, High, Normal, Low

Alarm Interval: You can set how long after an event occurs that the camera will continue to record. The recommended recording length is 5 seconds but it can be set longer up to 60 seconds.

Action to: Check to enable following features when motion is detected.

E-Mail: Send email when motion is detected. (Make sure you have completed all settings on **4-1-3. Email**)

Output:

Alarm with Snapshot: Send snapshot by email when motion is detected.

Alarm with Record: Record to Micro-SD card when motion is detected.

Trigger Alarm Output: Not supported in QRT-502.

Trigger Alarm Audio: Camera sounds the siren when motion is detected.

Schedule: Here you can specify when the camera records video based on motion detection.

Week Mode: Record video according to the **Week Mode** setting.

Work Mode: Record video according to the **Work Mode** setting.

Always Mode: The default is **Always**, it means that your camera always records when motion is detected.

Week Mode

Action:

E-Mail: ☐ Send E-mail

Output: ☐ Alarm With Snapshot ☐ Trigger Alarm Output ☐ Trigger Alarm Audio

Schedule: ☒ Week Mode ☐ Work Mode ☐ Always Time

	Time Preiod1				Time Preiod2				Time Preiod3			
<input type="checkbox"/> Sun	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> Mon	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> Tue	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> Wed	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> Thu	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> Fri	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> Sat	0	0	0	0	0	0	0	0	0	0	0	0

Clean

Apply Cancel

Work Mode

Action:

E-Mail: ☐ Send E-mail

Output: ☐ Alarm With Snapshot
☐ Trigger Alarm Output ☐ Trigger Alarm Audio

Schedule: ☒ Week Mode ☐ Work Mode ☐ Always Time

	Time Preiod1				Time Preiod2				Time Preiod3			
<input checked="" type="checkbox"/> Workday	0	0	0	0	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/> Weekend	0	0	0	0	0	0	0	0	0	0	0	0

Clean

Apply Cancel

4-2-2. Occlusion Detect

Check to enable this feature,

The screenshot shows a web interface with a top navigation bar containing 'Home', 'Replay', 'Media', 'Parameters', 'System', and links for 'Download Player' and 'Logout'. A left sidebar lists categories: 'Network' (IP Settings, DDNS, E-Mail, Wifi, P2P, FTP) and 'Event' (Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, Privacy Mask). The 'Occlusion Detect' item is selected. The main panel is titled 'Occlusion Detection' and contains a 'Status' checkbox labeled 'Enable' (which is unchecked) and a 'Sensibility' dropdown menu set to 'normal'. At the bottom are 'Apply' and 'Cancel' buttons.

4-2-3. Alarm in out

Not supported in QRT-502.

The screenshot shows the 'Alarm in out' configuration page. The left sidebar is the same as in the previous image, but 'Alarm in out' is selected under the 'Event' category. The main panel is titled 'Alarm In:' and contains several sections: 'Status' with an unchecked 'Enable' checkbox; 'Device Type' set to 'Grouned'; 'Alarm Interval' set to '10' seconds; 'Action' with checkboxes for 'Send E-Mail', 'Alarm With Snapshot', 'Alarm With Record', and 'Trigger Alarm Output'; 'Schedule' with radio buttons for 'Week Mode', 'Work Mode', and 'Always' (selected), and a 'Time' button; 'AlarmOut:' with an unchecked 'Status' checkbox, 'Out Type' set to 'OFF', and 'Time' set to '9' seconds. 'Apply' and 'Cancel' buttons are at the bottom.

4-2-4. Snapshot

You can configure **Snapshot** parameters here if you want to send or upload snapshots regularly to your email or FTP.

The screenshot shows a web interface with a dark theme. At the top, there are tabs: Home, Replay, Media, Parameters, and System. The 'Parameters' tab is selected. On the left, there is a sidebar menu with categories: Network (IP Settings, DDNS, E-Mail, Wifi, P2P, FTP), Event (Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, Privacy Mask), and others. The 'Snapshot' option under the Event category is highlighted. The main content area shows the configuration for the Snapshot feature. It includes a 'Snapshot' section with a 'Status' checkbox (checked) and an 'Interval' of 60 minutes. Below this is an 'Action' section with 'E-Mail' and 'FTP' checkboxes (both checked) and a link to 'Email Setting'. There is also an 'Alarm Snapshot' section with a 'Status' checkbox (checked), an 'Interval' of 2 seconds, a 'Time' of 30 seconds, and a 'Quality' dropdown set to 'Best'. At the bottom right, there are 'Apply' and 'Cancel' buttons.

Snapshot:

Status: Check to enable this feature.

Interval: Configure the interval time.

Action:

E-mail: Send the snapshot by email (please complete **Email Settings**, see 4-1-3. Email).

FTP: Specify the FTP path directory to save uploaded snapshots.

Alarm Snapshot: Not supported in QRT-502.

Click Apply to save the settings.

4-2-5. Record

Customize the recording settings here will affect the recorded video saved into the Micro-SD card.

The screenshot shows a web interface for configuring recording settings. At the top, there are tabs: Home, Replay, Media, Parameters, and System. The 'Parameters' tab is selected. On the left, there is a sidebar menu with categories: Network (IP Settings, DDNS, E-Mail, Wifi, P2P, FTP), Event (Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, Privacy Mask), and Record. The 'Record' option is highlighted. The main content area is titled 'Record' and contains the following settings:

- Stream:** A dropdown menu set to 'Main stream'.
- File Time:** A dropdown menu set to '30S'.
- Manual Record:** Radio buttons for 'On' (selected) and 'Off'.
- Timer Record:** Radio buttons for 'On' (selected) and 'Off'.
- Timelapse Record:** Radio buttons for 'On' (selected) and 'Off'.
- Schedule:** Radio buttons for 'Week Mode' (selected), 'Work Mode', and 'Always'. A blue 'Time' button is next to the 'Always' option.
- Alarm Record:** A section with a 'Record Duration' dropdown menu set to '30S'.

At the bottom of the settings area, there are two buttons: 'Apply' and 'Cancel'.

Record:

Stream: The available options are Main stream and Sub stream. By default, main stream has higher quality than sub stream.

File Time: Set the recording length for each video file.

Manually Record: Record video according to schedule.

Timer Record: Always record video.

Timelapse Record: Not Support in QRT-502.

Schedule: Here you can specify when the camera records video.

Week Mode: Record video based on **Week Mode**.

Work Mode: Record video based on **Work Mode**.

Always Mode: The default is **Always**, it means that your camera always records.

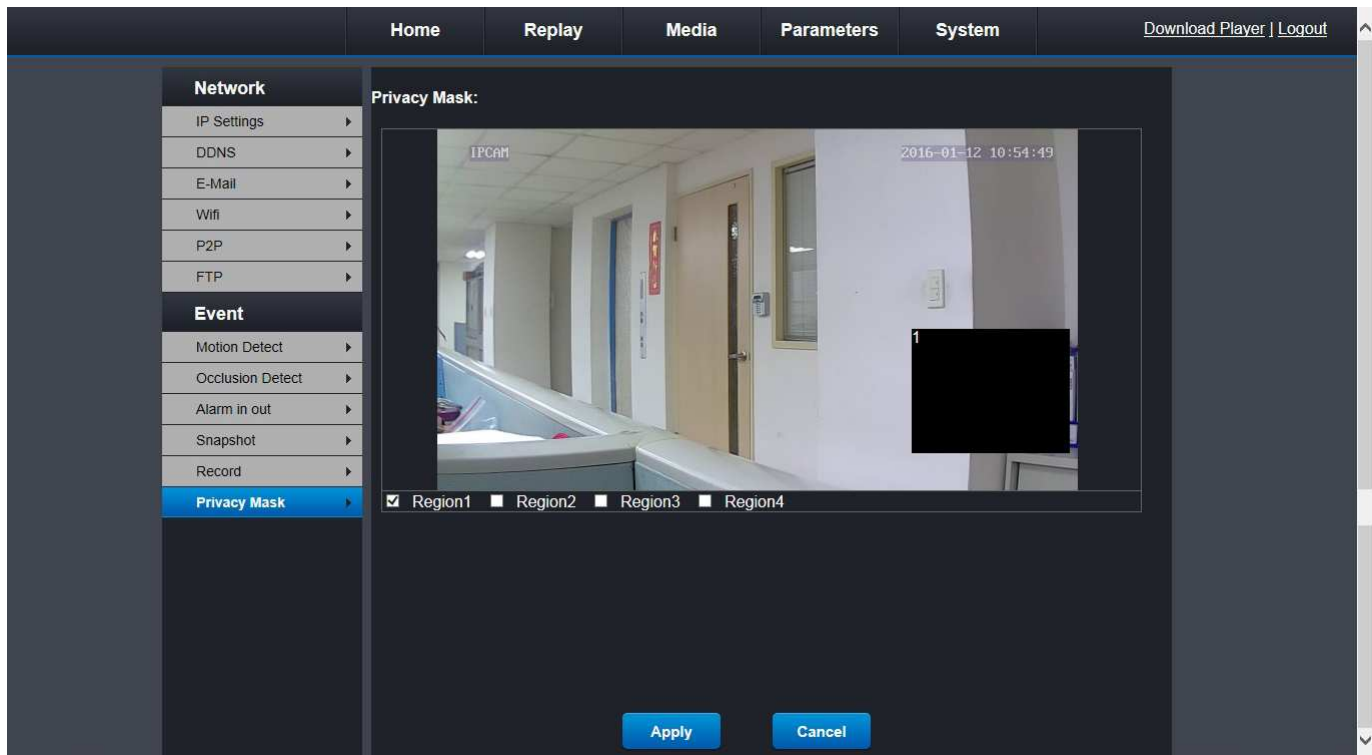
Alarm Record:

Record Duration: Set the recording length when motion is detected. (You must enable **4-2-1. Motion Detection**)

Click Apply to save the settings.

4-2-6. Privacy Mask

A Privacy Mask can be used to cover up part of your image. You can create up to 4 zones. On your image, they appear as “black areas”. You can choose where you want to create the zone and how large the zone is. Just click inside the default black rectangle and drag it where you want to create a privacy mask. Then click and hold the black rectangle and move the cursor to give the desired shape for the zone. Click on Apply to save it.



4. System

4-1. User

In this menu, you (Administrator) can modify password or configure other users to access remote live view.

UserID	Username	Password	Verify Password
Administrator	admin	*****	*****
User1	guest	*****	*****
User2			
User3			
User4			
User5			
User6			
User7			

Administrator: By default, the administrator user name and password are both set to **admin**, the user name is fixed, the password is variable, and we suggest you change password to protect your privacy.

User1~7: User means **Normal** user, normal user is allowed to access remote live view only.

Modify administrator's password:

UserID	Username	Password	Verify Password
Administrator	admin	*****	*****

Username: admin

Password: Enter your new password.

Verify Password: Enter your new password again.

Click Apply to save the changes.

Configure other users (user 1~7):

UserID	Username	Password	Verify Password
User1	guest	*****	*****

Username: Set a user name.

Password: Set a password.

Verify Password: Enter the password again.

Click Apply to save the settings.

4-2. Time setting

You can set the date and time here. It is important for recordings because the data will be affected by the time setting. or allow the camera to update automatically, using the NTP (Network Time Protocol). If you decide to modify manually then click on the date/time box and via on-screen keyboard enter the current date and time.

The screenshot shows the Onvif Time Setting interface. The top navigation bar includes 'Home', 'Replay', 'Media', 'Parameters', and 'System'. The 'System' menu is expanded on the left, showing options like 'User', 'Time setting', 'Initialize', 'Device Info', 'Local Storage', and 'System log'. The 'Time setting' option is selected. The main area is titled 'Adjust:' and contains several sections: 'Date & Time' with a text box showing '2016-01-12 10:57:28'; 'Sync With Computer' with a text box showing '2016-01-12 10:57:27' and a 'Sync' button; 'Manual' with date and time pickers (Date: 2016-01-12, Time: 10:57:19) and a 'Setup' button; 'Sync With NTP' with an 'Enable' checkbox checked, a 'Server Name' text box with 'time.nist.gov', an 'Update' button, and an 'Interval' dropdown set to '2' hours; 'Time Zone' with a dropdown menu showing '(GMT+08:00) Beijing, Chongqing, HongKong, Urumqi' and a 'DST' checkbox; 'Auto Update Time' with a checked checkbox; and 'Onvif Set TZ' with three radio buttons: 'Reduce Timezone' (selected), 'None Control', and 'Plus Timezone'. At the bottom are 'Apply' and 'Cancel' buttons.

Here are three ways for you to adjust the time setting:

1. Sync with computer: Click on Sync to synchronize the date and time automatically over your computer.

2. Manual: Click on the date/time box and enter the current date and time via your keyboard.

3. Sync with NTP:

NTP: Enable if you want to use NTP (Network Time Protocol) to synchronize the date and time automatically over Internet.

Server Name: Enter the NTP (Network Time Protocol) server.

Update: Click here to update the system date and time.

Interval: Configure how long of time interval to synchronize.

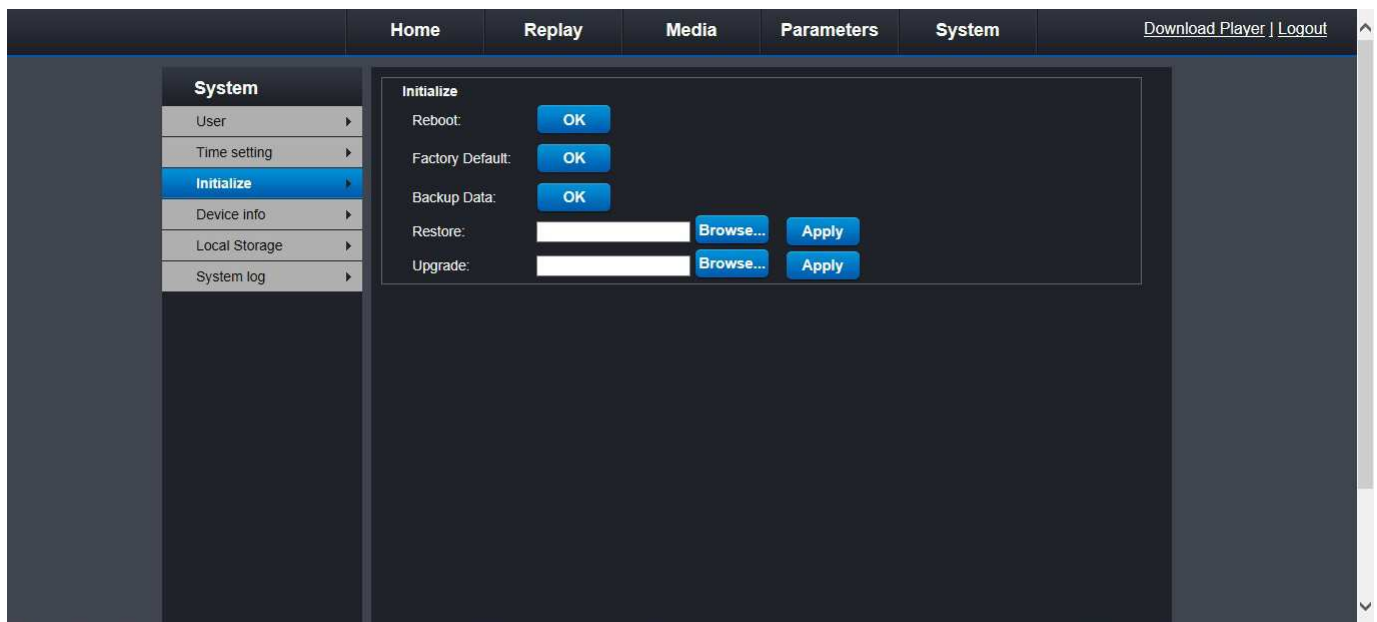
Time Zone: Select the Time Zone in your location.

Auto Update Time: Check to enable this feature.

Onvif Set TZ: Choose the Time Zone type to synchronize time setting over Onvif.

4-3. Initialize

This page allows you to reboot, load factory defaults, backup data, restore and update the firmware settings.



Reboot: Click on OK to reboot the camera.

Factory Default: Click on OK to load factory default. It is recommended to load defaults for all options, after upgrading the firmware.

Backup Data: Click on OK to export your current setting data such as record setting, network settings, and etc to computer.

Restore: If you want to restore your setting data after load default, using this function to import your setting data to your camera.

Upgrade: Use this function to upgrade firmware.

4-4. Device info

In this menu you can review all the technical information concerning your camera.

Home

Replay

Media

Parameters

System

Download Player | Logout

System

User

Time setting

Initialize

Device info

Local Storage

System log

Device Info

Camera Name: IPCAM

Serial Number: VVVICXWC150826Z-00938sAvEWaTzGV

Hardware Version: 2500-ov9712a

Software Ver: V3.3.5.2601-S50-RXC-B20160104

Start Time: 0 day, 1:0

Network Info

Connection: WIRELESS

MAC: C0:99:ED:81:50:07

Wireless MAC: 20:F4:1B:C5:E7:B3

IP: 192.168.1.6

Subnet Mask: 255.255.255.0

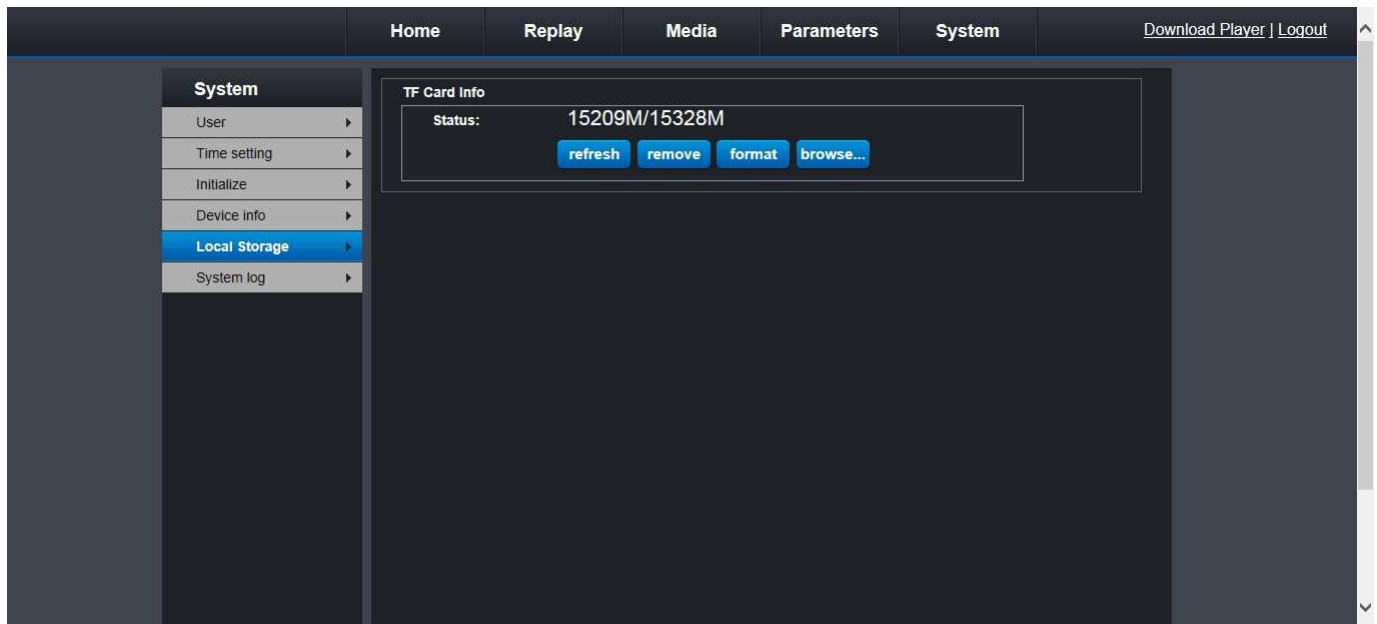
Gateway: 192.168.1.1

Primary DNS: 168.95.1.1

Second DNS: 192.168.1.1

4-5. Local Storage

Configure here the internal Mirco-SD card that the camera uses for saving the recordings.



Refresh: Click to refresh and display current status of the Mirco-SD card.

Remove: Click to remove all recordings.

Format: Click to format the Mirco-SD card.

Browser: Click to display a list of folder in the Mirco-SD card.

4-6. System log

The Log menu displays a list of events, presented in chronological order.

[illegible]

Enter the start time/end time / type to the respective fields and click Search

[illegible]