Great Lite | VCT

Video Compression Transmitter

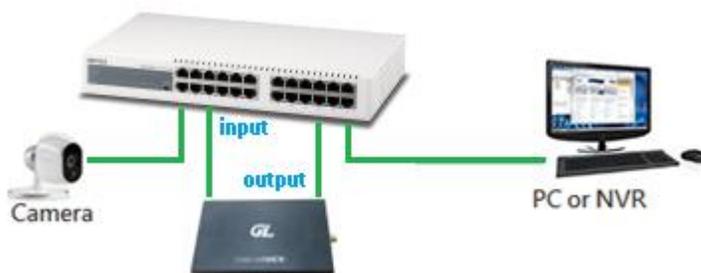**PRODUCT MANUAL**

GREAT LITE INTERNATIONAL

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Overview

The continuous improvement in image sensor and processing technologies makes video image resolution become higher and higher. Nowadays video equipment generates better color depth or even 3D effect image easily. However, the side effect from image quality enhancement is image file size increase in multiple times. User enjoy viewing good quality video sending from HD IP camera but user always faces many troubles when they intend to transmit those high quality image stream to remote locations. Those troubles are transmitting interrupt caused by narrow network bandwidth, data frame lost makes the video streaming not smooth or real. Those image data lost problem makes user experienced bad feeling even the camera equipment is high quality one.

Great-Lite International integrated data compression technologies in both software and hardware to provide a high efficiency data transmitting device – Video Compression Transmitter (VCT). The VCT leverage the CPU/GPU computing power with a complex algorithm that capable to reduce 80%-90% data size of origin video stream yet the video keeps origin image resolution and quality without any extra compensation. VCT makes data transmitting faster and reliable, makes data storage smaller and more effective. You can easily setup this compression device under our easy and self-explainable setup program to start compressing your heavy video stream.

[Connection Configuration]

VCT-R1X has an INPUT and an OUTPUT port. The input port is connecting to a webcam, and

set the corresponding configuration on webcam. The output port is through a network switch

connecting to the server or clients.   After setting the compression parameters on device,

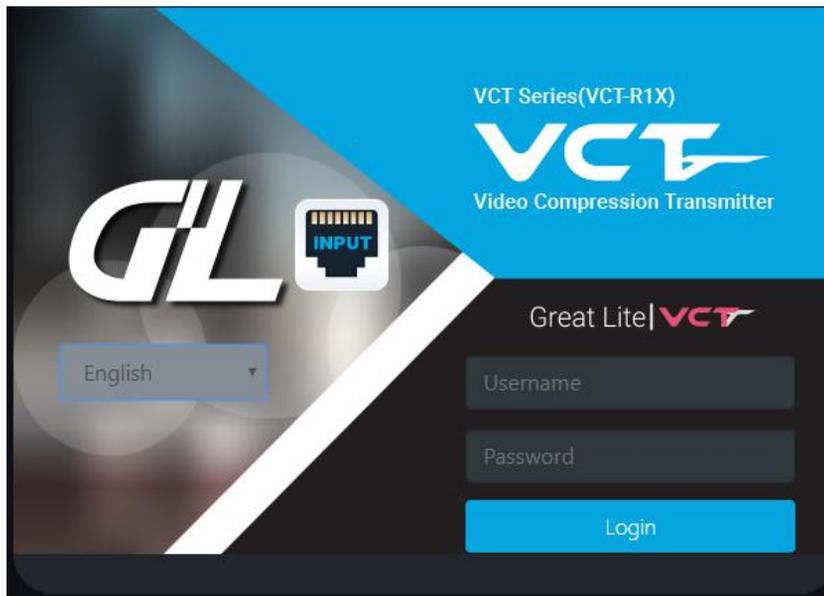compressed video stream can be viewed through standard RTSP compatible software or RTSP

player.

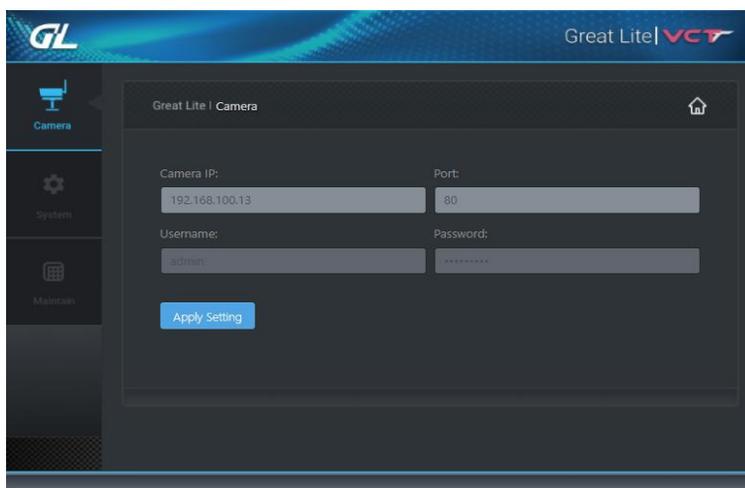

VCT-R1X Default IP Address

INPUT:192.168.1.14

OUTPUT:192.168.1.21

1. Input Login

1) Enter the user name/password, you can login the input settings page.

2) From the pull-down language menu, you can easily select preferred language interface.

3) Login Input web:192.168.1.14:8080

2. Input functions setting

1) Click ![Camera icon] to open the Camera settings page. This page is used to set the camera device for the input image, the camera network address, communication port and the password.
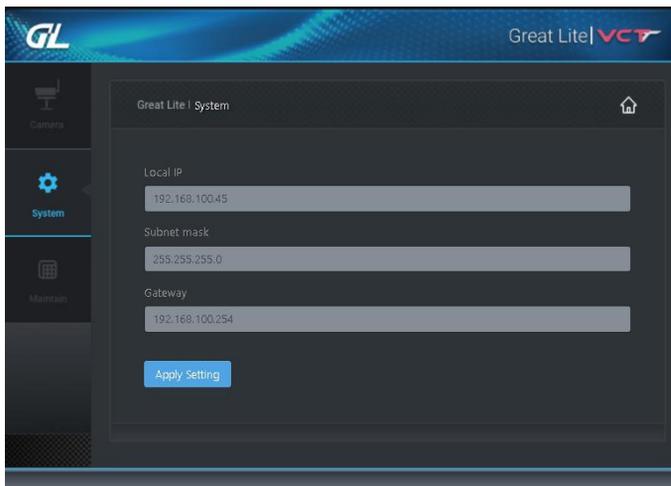
Camera IP: Set the IP address of the image source camera.

Port: Set the Port of the image source camera.

Username: Set the login account.

Password: Set the login password.

Apply Setting   When ending all input, click [Apply Setting] to activate the setting.

2)   Click **System** to open the System settings page which is used to set the IP address of
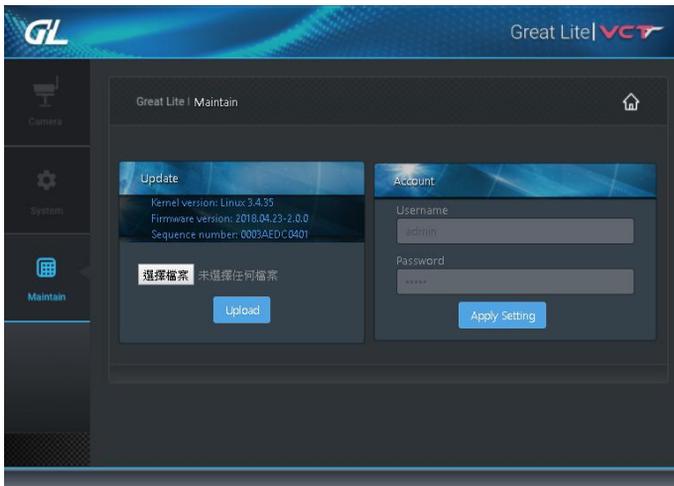
VCT device, Subnet mask and Gateway.

Local IP   Set the IP address of the VCT.

Subnet mask   Set the Subnet mask of the VCT.

Gateway   Set the Gateway of the VCT.

Apply Setting   When ending all input, click [Apply Setting] to activate the setting.
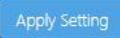
⌂ Back to Home

3) Click ![Maintain] to open the Maintain page which is used to set login account, password,

and update the firmware of VCT Input.

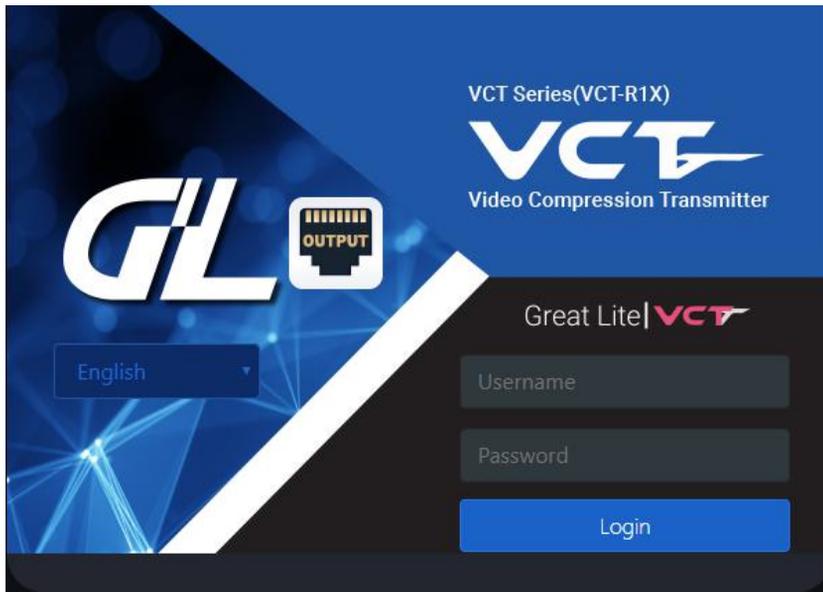![選擇檔案] Select the source file location to update.

![Upload] After selecting the update file, press the upload button to activate update.

![用戶名稱:] Set login account of VCT Input.

![密碼:] Set password of VCT Input.

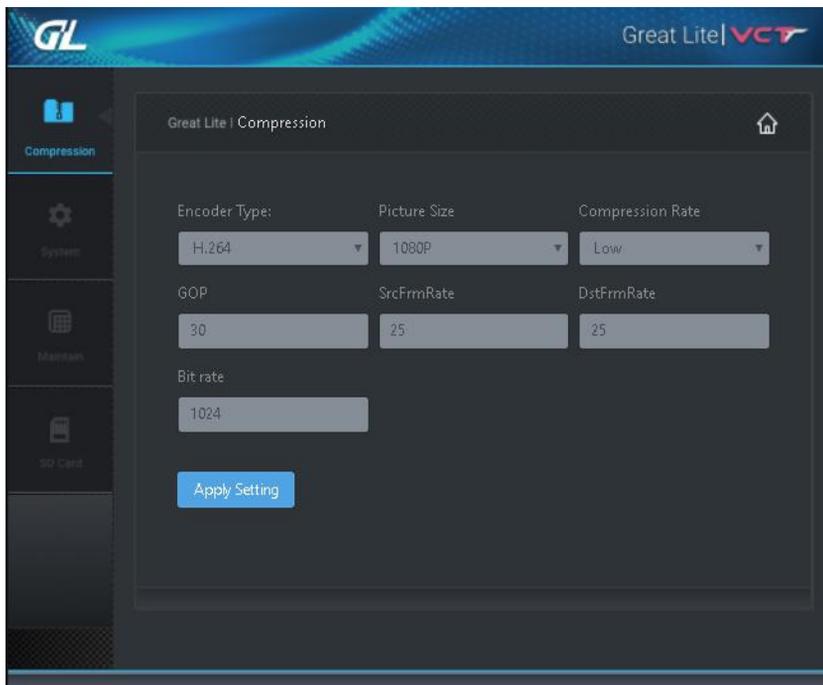![Apply Setting] When ending all input, click [Apply Setting] to activate the setting.

3. Output Login

1)   Enter the user name/password, you can login the Output settings page.

2)   From the pull-down language menu, you can easily select preferred language interface.

3)   Login Output web:192.168.1.21:8080

4. Output function setting

1)   Click [Compression] to open the compression setting page. You can set the compression

parameters of output image, the encoding applied, resolution, and compression rate.

Encoder Type:

Options: H.264 · H.265

Select the portmanteau of coder-decoder (default is H.264).

Picture Size

Options: 1080 · 720.   Select the output resolution (default is 1080).

Compression Rate

Options: Low · Normal · High (default is Low).

GOP

Options: 120 · Group of Pictures (default is 120).

SrcFrmRate

Options: 25 · Frame frequency, source value (default is 25)
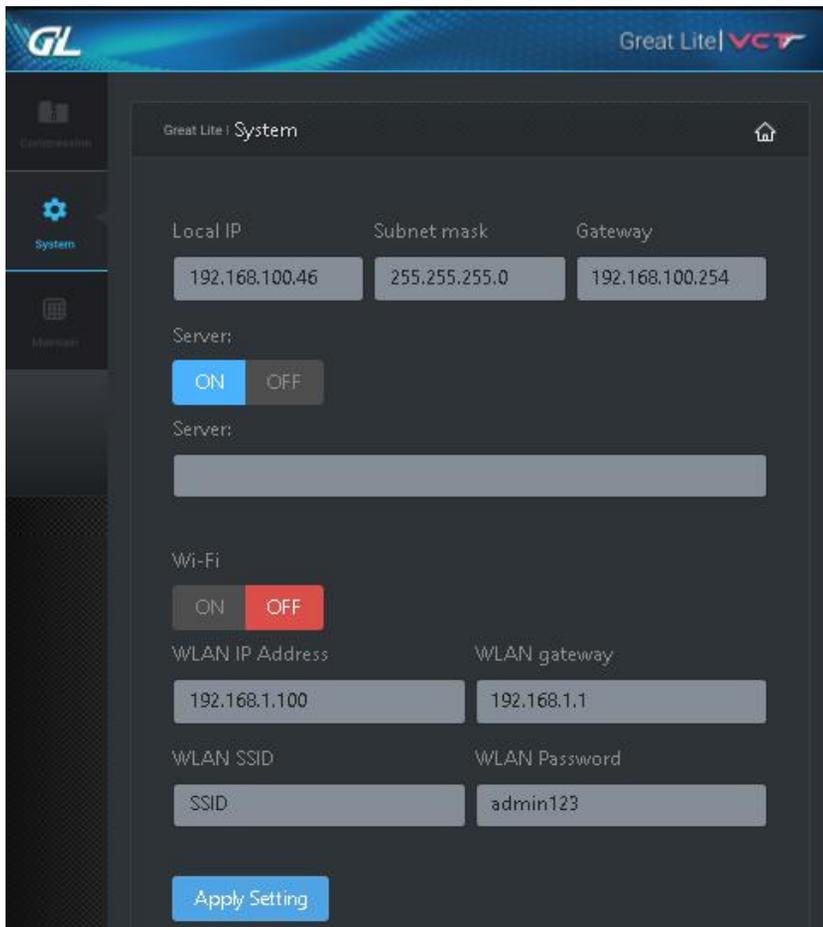
DstFrmRate

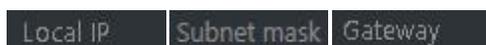Options: 25 · Frame frequency, destination value(default is 25)

Bit rate

Options: 1024 · (default is 1024)

Apply Setting   When ending all input, click [Apply Setting] to activate the setting.

2) Click to open the System page. This page is used to set the address of network, cloud services and the configure of Wi-fi.

Set the location IP, Subnet mask and default gateway of VCT output.

Server

ON/OFF the cloud storage service and set the cloud service path.
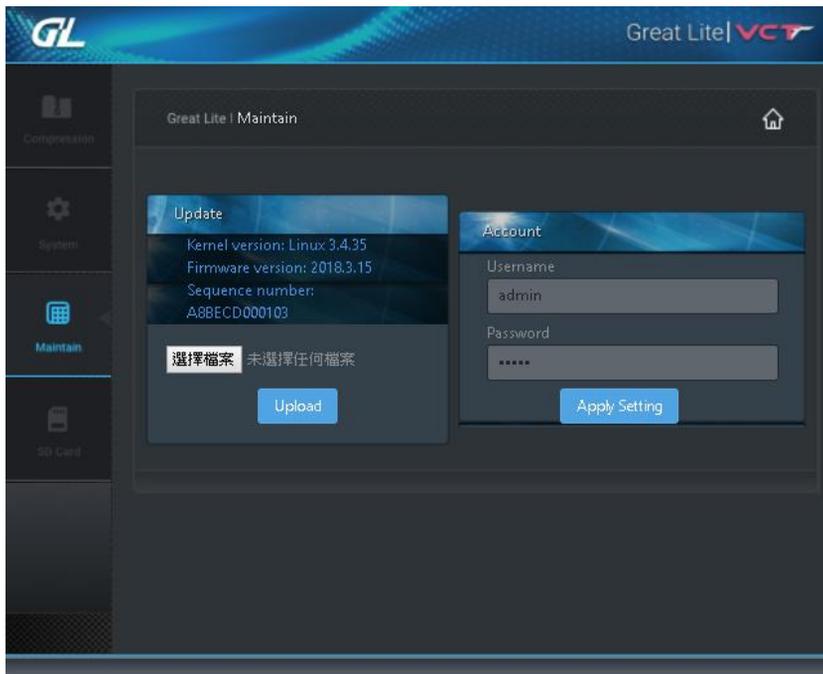
Wi-Fi

ON/OFF the Wi-Fi service and set Wireless LAN configure.

Set the IP and Gateway of WLAN service.

Set the SSID and Password of WLAN service.

When ending all input, click [Apply Setting] to activate the setting.

3) Click [Maintain] to open the Maintain page which is used to set   login account, password,

and update the firmware of VCT.

Update

Click 選擇檔案 select the source file location and click Upload to run update.

Account

Enter the Username and Password you wish to set for login.

When ending all input, click [Apply Setting] to activate the setting.

5. Viewing video from RTSP player

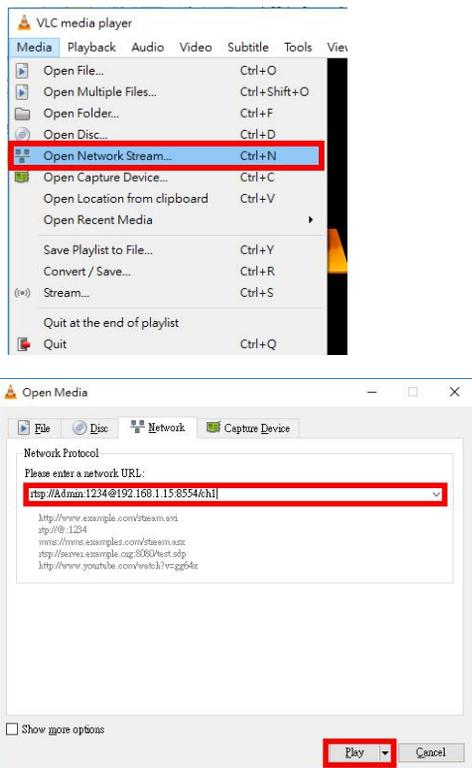Enter the following format in the video streaming software [RTSP URL] field :.

rtsp://admin:admin@192.168.1.21:8554/bmi/1

admin: admin (Account:Password)   Note: these parameters are letters case sensitive.

192.168.1.21:8554 (VCT IP:RTSP Port)

ch1(channel 1 only)

Exp: Use VLC Player ver2.22

Warning and safety

[Warning]

It should avoid affecting the operation of nearby radar systems.

High-gain directional antennas only have to be applied to fixed point-to-point systems.

[Safety]

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment.

Support

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