



-TECH DIGITAL®

USER MANUAL



4-INPUT H.264 H.265 ENCODER

JTD-671 | JTECH-ENCH54



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TABLE OF CONTENTS

FEATURES	4
PACKAGE CONTENTS.....	4
HARDWARE DESCRIPTION.....	5
FRONT PANEL.....	5
BACK PANEL.....	5
TYPICAL APPLICATION.....	6
CONNECTION CONFIGURATION	7
COMMUNICATING WITH THE JTECH-ENCH54 H.264 H.265 ENCODER	7
ASSIGNING THE H.264 H.265 ENCODER A STATIC IP ADDRESS.....	12
<i>DETERMINING THE IP SCHEME OF YOUR NETWORK – WINDOWS.....</i>	<i>12</i>
<i>LOCATING AN UNUSED IP ADDRESS ON YOUR NETWORK.....</i>	<i>13</i>
<i>ASSIGNING THE JTECH-ENCH54 A STATIC IP ADDRESS IN THE WEB GUI</i>	<i>15</i>
NAVIGATING THE JTECH-ENCH54 WEB GUI.....	21
STATUS MENU.....	21
<i>Device Status Information.....</i>	<i>21</i>
<i>Input Port 1 – Input Status Main Stream URLs.....</i>	<i>22</i>
INPUT PORT 1 – 4 MENU	24
<i>Encoder (Main Stream – Substream 3).....</i>	<i>24</i>
<i>OSD (Main Stream – Substream 3).....</i>	<i>25</i>
<i>Logo Upload</i>	<i>27</i>
<i>Video</i>	<i>28</i>
<i>Audio.....</i>	<i>29</i>
<i>ONVIF Audio.....</i>	<i>30</i>

SYSTEM	30
<i>Network</i>	30
<i>Advanced</i>	31
<i>Change Password</i>	32
<i>Serial to TCP</i>	33
<i>Upgrade and Backup</i>	33
<i>Reset</i>	33
<i>Reboot</i>	33
<i>Schedule Restart</i>	33

Dear Customer

Thank you for purchasing the JTECH-ENCH54. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

FEATURES

- Supports H.264 & H.265 Encoding
- Supports UDP, HTTP, RTSP, RTMP, ONVIF Protocols
- CBR/VBR Rate: 32 Kbps – 32 Mbps
- 1000M Network Interface uses Full Duplex Mode
- Supports up to 4K 30Hz HD Video Input
- Supports Image Parameter Settings
- Supports Remote Management in WAN (webGUI)
- Supports Customized Resolution Settings

PACKAGE CONTENTS

- 1) J-Tech Digital JTECH-ENCH54 H.264/H.265 Encoder
- 2) Power Adapter 12VDC 1A
- 3) User Manual

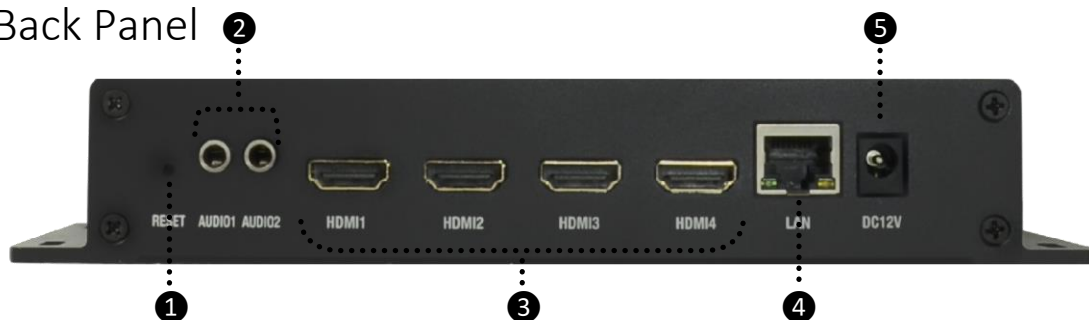
HARDWARE DESCRIPTION

Front Panel



- 1) HDMI Inputs 1-4 Status LEDs
- 2) Power Status LED
- 3) LAN Status LED

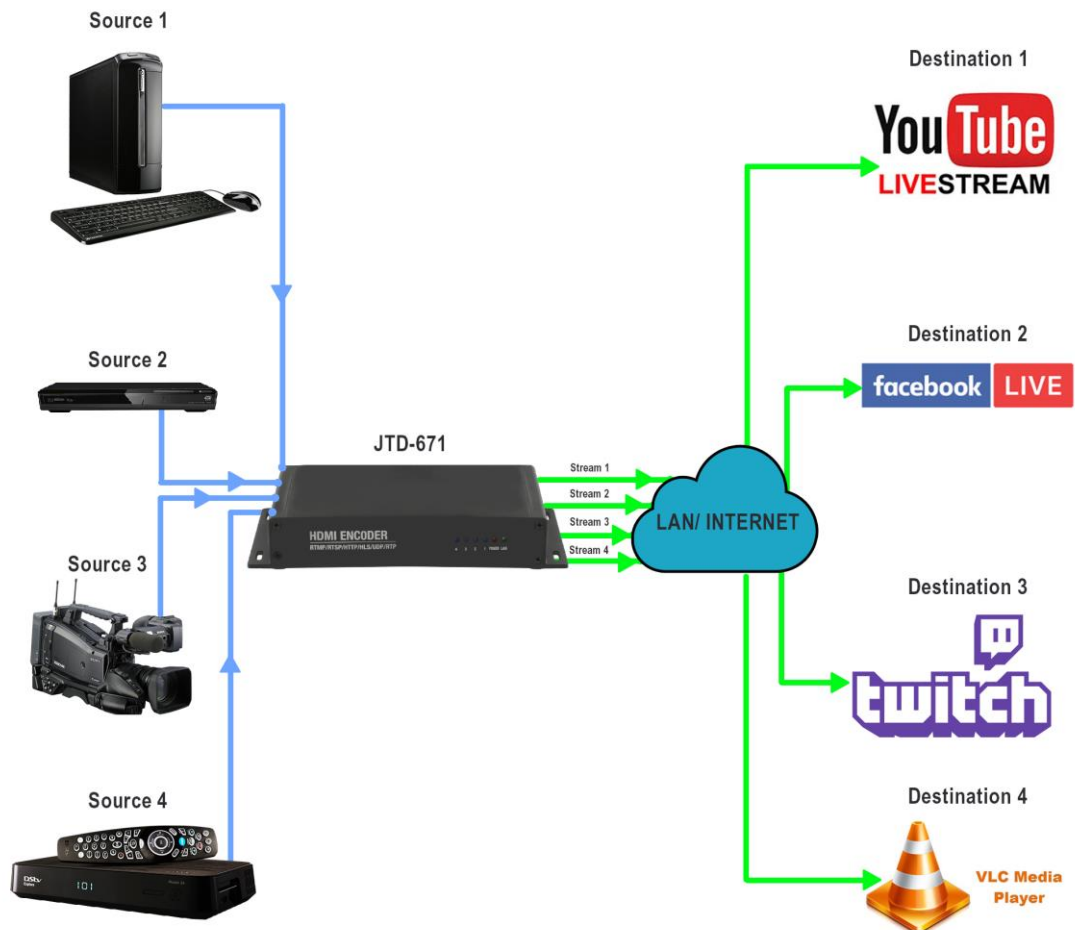
Back Panel



- 1) Reset Button (*Factory Default Settings – Press & hold the reset button for 10 seconds until the Power and LAN Status LEDs turn off*)
- 2) Analog Audio Input Ports 1 & 2
- 3) HDMI Input Ports 1 – 4
- 4) LAN Port (*Default IP: 192.168.1.168*)
- 5) DC12V Power Adapter Port

TYPICAL APPLICATION

■ HDMI Cable



CONNECTION CONFIGURATION

Communicating with the JTECH-ENCH54 H.264 | H.265 Encoder

You will need to utilize your computer's ethernet port in order to communicate with the encoder.

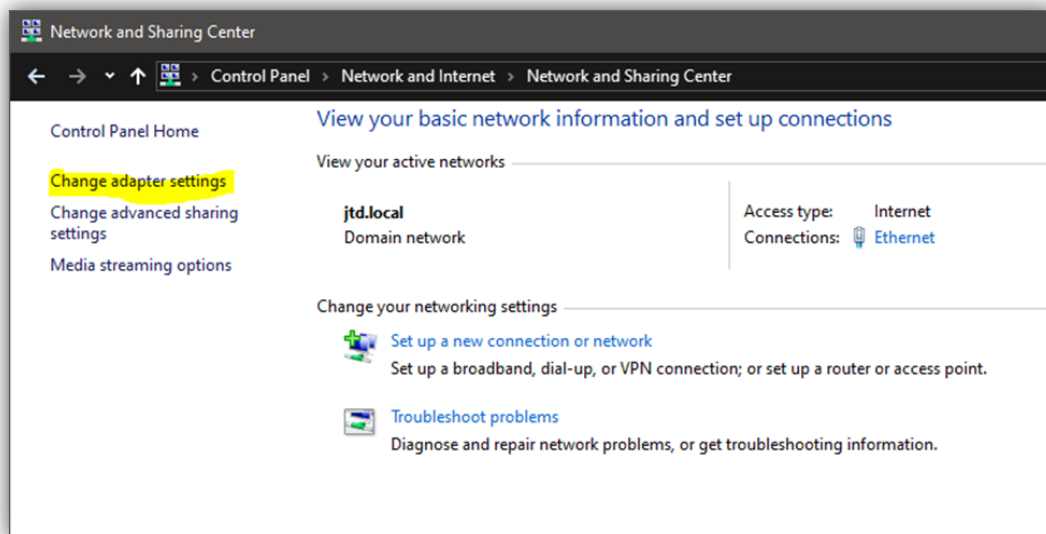
CHANGING YOUR PC'S IP ADDRESS

You will start by changing the IP address of your computer to match the default IP address scheme of the encoder (192.168.1.168) so that the two can communicate. This means we will need to change your PC's ethernet IP address to [192.168.1.XXX](#).

To do so navigate to -

Control Panel > Network and Internet > Network and Sharing Center

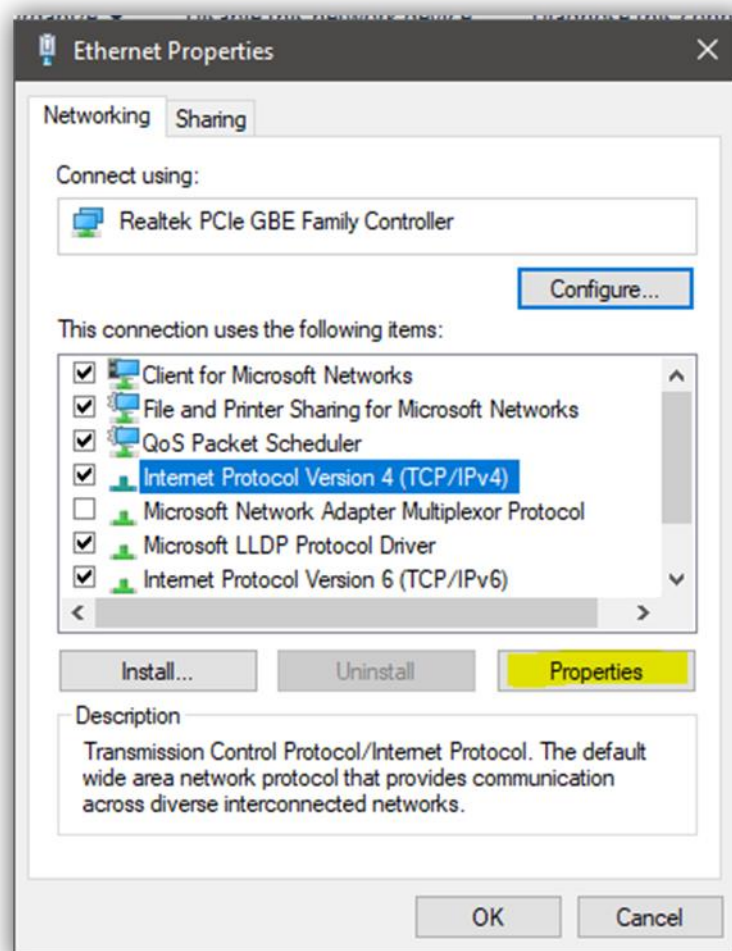
Then, on the left-hand side select 'Change Adapter Settings'



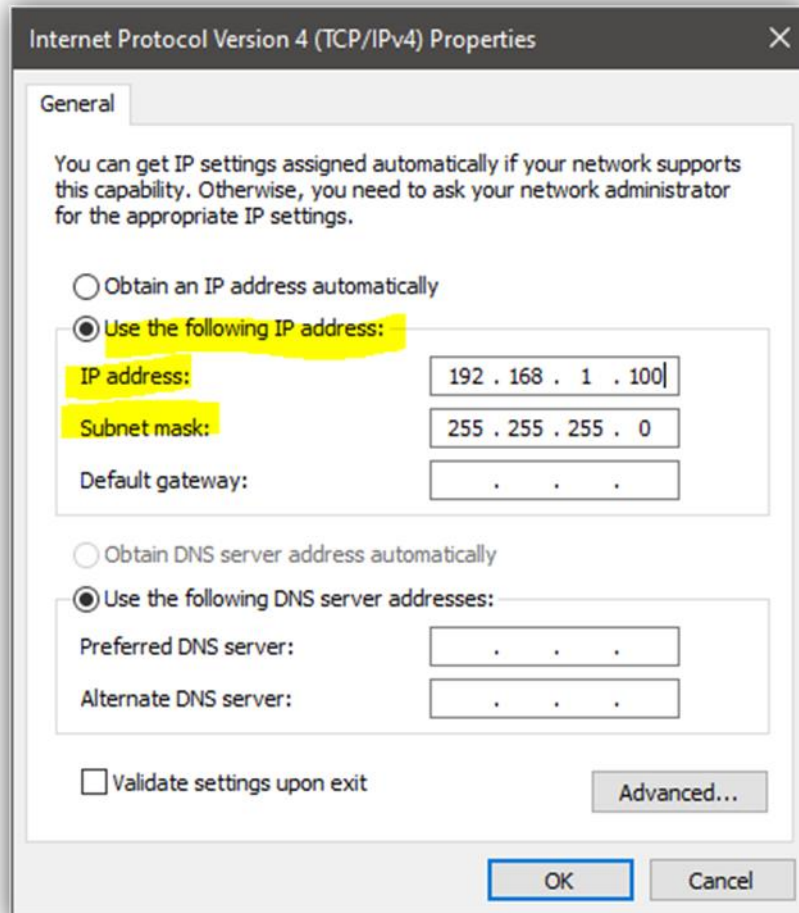
This will bring up a new window.



Right-Click on '**Ethernet**' and select '**Properties**'. This will bring up a new window.



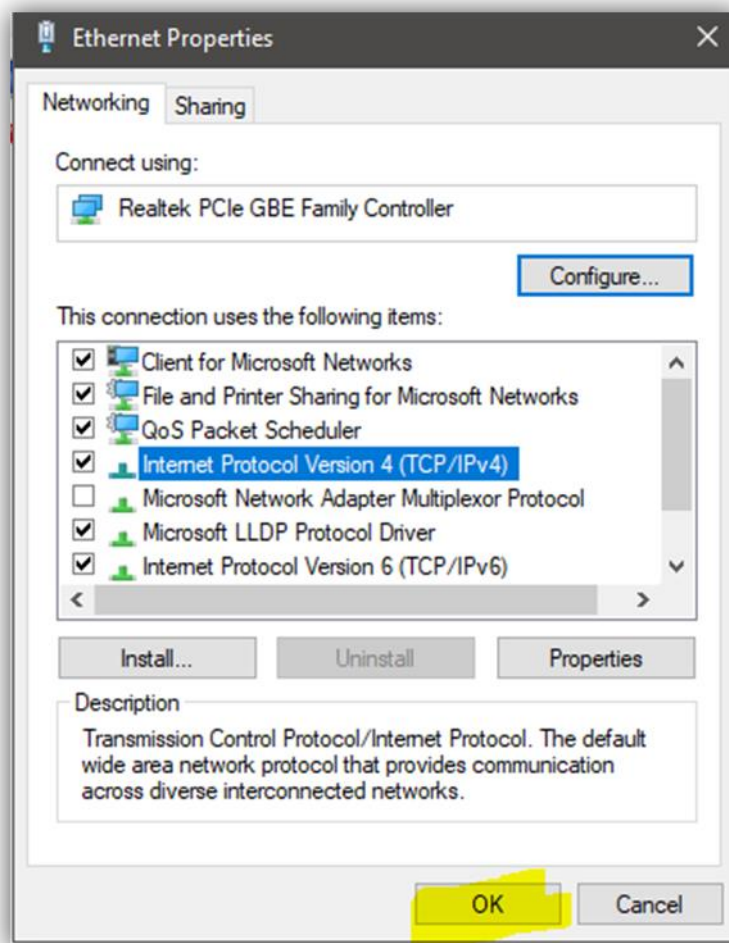
Highlight '**Internet Protocol Version 4 (TCP/IPv4)**' and select the '**Properties**' button.



This will bring up a new window.

By default, your PC's network adapter is set to "**Obtain an IP address automatically**" or allow your router to use DHCP to assign your PC an IP address. In this instance, we want to set a static IP address for our PC that matches the default IP scheme of the encoder (192.168.1.168). In the above instance, I set a static IP address of '**192.168.1.100**' to my PC and a subnet mask of '**255.255.255.0**' (Class C).

After you have assigned your IP address and subnet mask, you may hit the '**OK**' button to apply the changes.



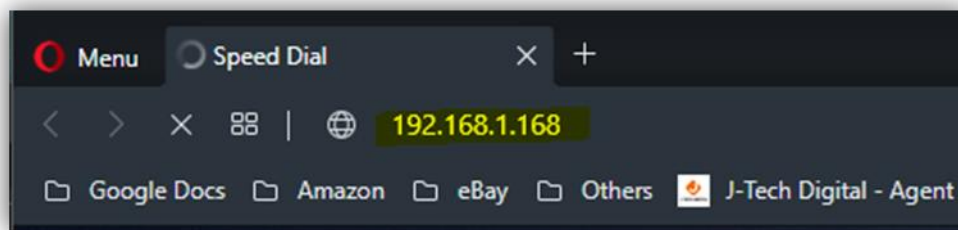
Then hit the '**OK**' button on the Ethernet Properties Window.

Now that your PC's IP address matches the scheme of the encoder's default IP address, the two devices should be able to communicate with each other.

Next, connect an ethernet cable directly from your PC's ethernet port to the encoder's ethernet port.

Afterwards, open up a web browser (*Google Chrome, Mozilla Firefox, Microsoft Edge*). Don't be alarmed if your home page does not load.

In the address bar, type in the default IP address of the encoder (**192.168.1.168**) and hit 'enter' -

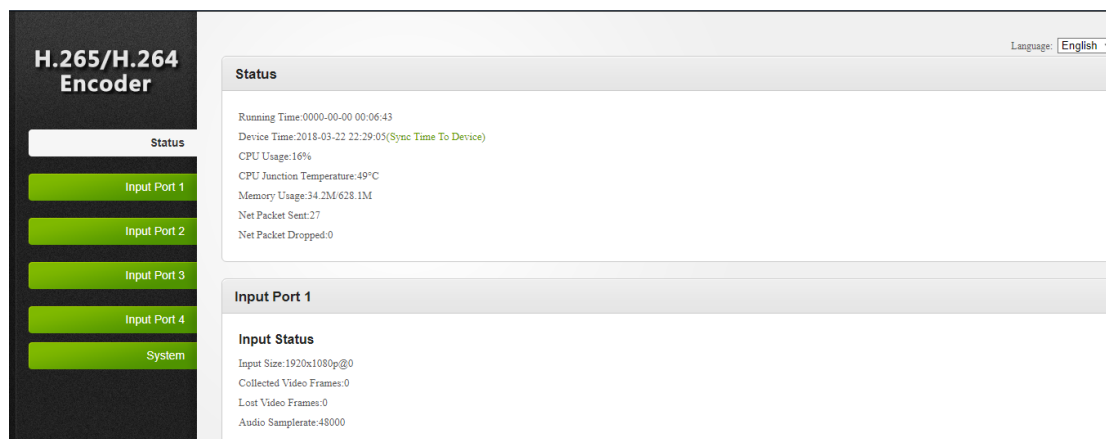


When you are prompted to enter login information, please enter the following credentials -

Username: admin

Password: admin

From here, you should now have access to the encoder's WEB GUI.



Assigning the H.264 | H.265 Encoder a Static IP Address

DETERMINING THE IP SCHEME OF YOUR NETWORK – WINDOWS

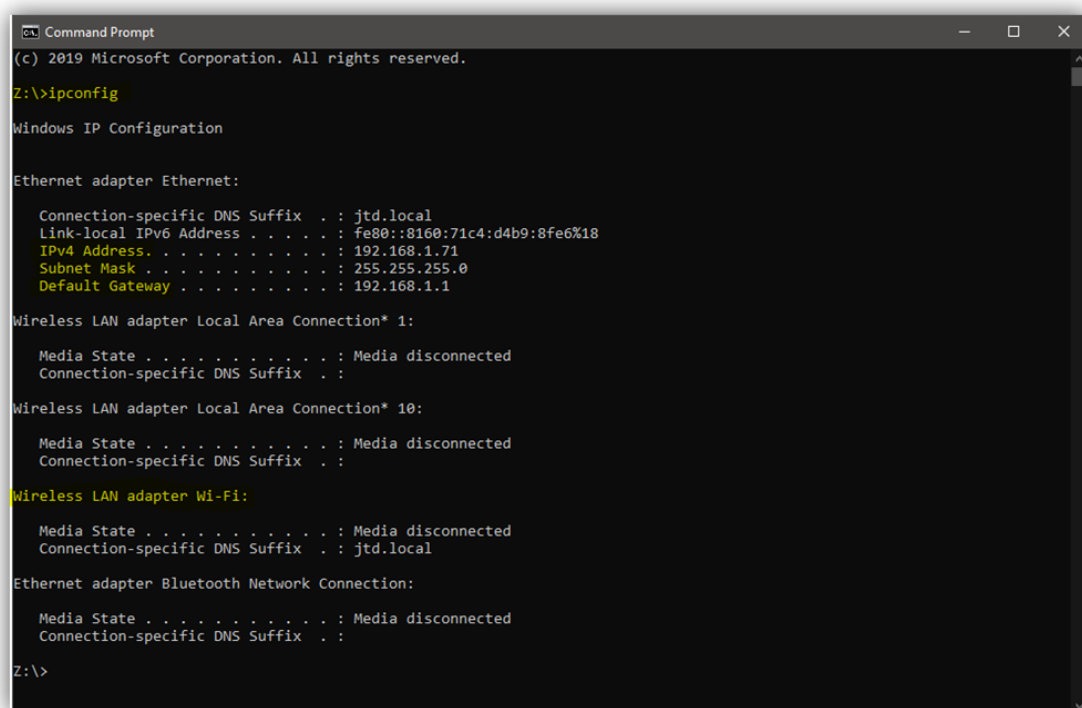
In order to setup your encoder for the first time, you will need to find out the IP scheme of your network and locate an unused IP address to be assigned to the encoder.

****Note – You must be connected to your network via ethernet or WiFi to determine the IP scheme of your network.***

If you are on a Windows PC and are connected to your network, begin by opening the ‘**Command Prompt**’ application.

Once the application is open, type the command ‘**ipconfig**’ and press ‘**enter**’.

Information about your computer and network will populate below.



```
Command Prompt
(c) 2019 Microsoft Corporation. All rights reserved.

Z:\>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : jtd.local
    Link-local IPv6 Address . . . . . : fe80::8160:71c4:d4b9:8fe6%18
    IPv4 Address. . . . . : 192.168.1.71
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 10:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : jtd.local

Ethernet adapter Bluetooth Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Z:\>
```

Above you will see that the ‘**ipconfig**’ command provides you with different pieces of information, including:

- Your PC’s IPv4 IP address
- The Default Gateway of your network
- The Subnet Mask of your network

Please be sure to write down this information for future use as this is all information you will enter into your encoder during setup. You can determine the scheme of your network by your **'IPv4 Address'** and your **'Default Gateway'**.

Above, you can see that the IP address of the computer is *192.168.1.71* and the Default Gateway is *192.168.1.1*. This lets the user know that the scheme of your network is **'192.168.1.XXX'**.

LOCATING AN UNUSED IP ADDRESS ON YOUR NETWORK

Now that you know the IP Scheme of your network, you will need to locate a static IP address that is not being used by a device on your local area network (LAN).

Most networks have a router that uses a function called DHCP (dynamic host configuration protocol). This function allows the router to assign an IP address to the devices on the LAN. We **do not** want to utilize DHCP with your encoder because the IP address assigned by the router has a "lease" time and may be changed after the lease expires. If the IP address changes and you do not know the IP address of the encoder, then you cannot make any necessary changes to the encoder.

If you are on a Windows PC, navigate back to or open the **'Command Prompt'** application. Once the application is open, type the command **'ping XXX.XXX.XXX.200'** and press **'enter'**.

*We will start checking for unused IP addresses with **XXX.XXX.XXX.200**. XXX.XXX.XXX will be replaced by your network's IP scheme. For the example below, we use the command **'ping 192.168.1.200'** because our network's IP scheme is 192.168.1.XXX.*

After you press **'enter'**, information will populate below the command -

```
Command Prompt
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.

Z:\>ping 192.168.1.200

Pinging 192.168.1.200 with 32 bytes of data:
Reply from 192.168.1.71: Destination host unreachable.
Reply from 192.168.1.71: Destination host unreachable.
Reply from 192.168.1.71: Destination host unreachable.
Reply from 192.168.1.71: Destination host unreachable.

Ping statistics for 192.168.1.200:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Z:\>
```

In the above example, you can see that after trying to ping the IP address 192.168.1.200, the results show that the **“Destination Host is Unreachable”**. This means that the remote gateway was unable to direct our ping request to the device/host itself and sends an echo message back to say that it cannot be found. Most likely there is not a device on your LAN that is using the 192.168.1.200 IP address.

If your results show the following, there is a device/host on your network with that IP address already. In the example below, the results from command **‘ping 192.168.1.10’** show that there is a device on the LAN at that IP address responding to our ping request.

```
Command Prompt
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.

Z:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

Z:\>
```

If there is a device using the IP address 192.168.1.200 on your network, try to ping another IP address like 192.168.1.201 until your results show “Destination Host Unreachable”.

Once you have found an unused IP address on your network, write this IP address down as it will become the static IP address of your encoder. In the examples above, we know that the IP address **192.168.1.200** is not being used by a device on our network and will become our encoder’s static IP address.

ASSIGNING THE JTECH-ENCH54 A STATIC IP ADDRESS IN THE WEB GUI

In order for the JTECH-ENCH54 to operate correctly, the device needs to live on your existing network and have access to the internet. The best way to ensure that these two things happen is to assign your encoder a new static IP address.

Before you assign the encoder a static IP address, you will need to know the scheme of your current network and ensure that the IP address it not being used. Please review sections “Determining the IP Scheme of your Network” and “Locating an Unused IP Address on your Network”.

Once you know the IP address you want to assign the encoder, navigate to the '**System**' Tab > '**Network**' menu.

H.265/H.264 Encoder

- Status
- Input Port 1
- Input Port 2
- Input Port 3
- Input Port 4
- System**
- Network**
- Advanced
- Change Password
- Serial to TCP
- Upgrade and Backup
- Reset
- Reboot
- Schedule Restart

Network

internet access

DHCP:

IP:

Netmask:

Gateway:

MAC:

DNS

DNS1:

DNS2:

NTP

NTP Enable:

NTP Server:

Time Zone:

Port

HTTP Port: [1-65500]

RTSP Port: [1-65500]

In this menu, you can customize your network settings for the encoder.

DHCP - Disable/Enable - It is recommended you leave DHCP disabled and assign a static IP address to your encoder so that you know where to access the WEB GUI.

IP - This is the field where you will enter your new static IP address for the encoder that matches your current network's scheme

Netmask - Set the netmask based on your connected network. In the above example, our network is Class C so our subnet mask is 255.255.255.0

Gateway - Enter the gateway address of your network's router

MAC - This is the MAC address of your encoder and does not need to be edited.

After you have customized your settings, hit the 'Apply' button at the bottom of the screen. A notification window will pop up saying that the changes were saved and that a reboot is required.

To reboot your encoder, navigate to **System > Reboot**

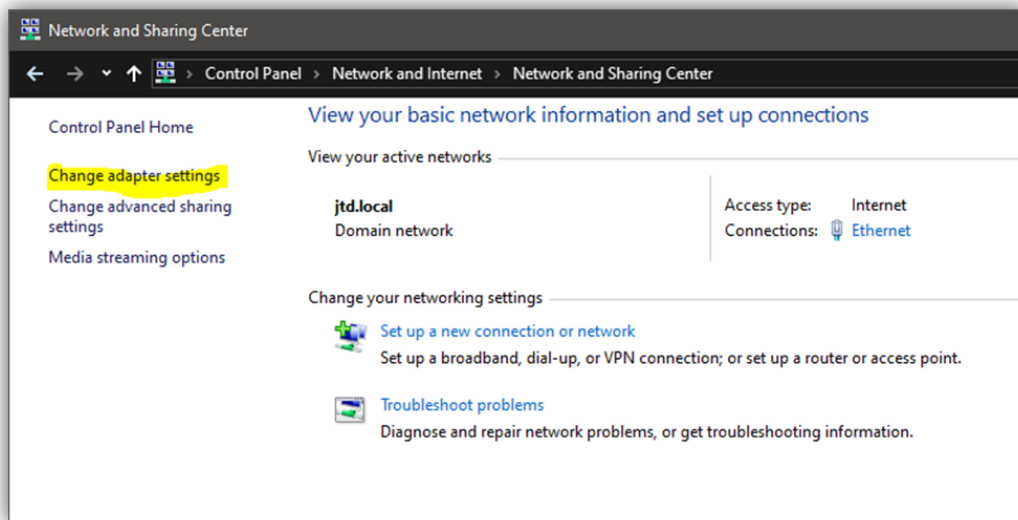
After your device has rebooted and your changes have saved, directly connect your JTECH-ENCH54 encoder to your network switch or router via ethernet cable.

Reconnect your computer to your network switch or router via ethernet cable or ensure you still have connectivity to the network via WiFi.

If connecting to your network via ethernet, you'll want to change your PC's IP address settings back from the static IP address you set (192.168.1.100) to DHCP.

Navigate to **Control Panel > Network and Internet > Network and Sharing Center**

Then, on the left-hand side select '**Change Adapter Settings**'

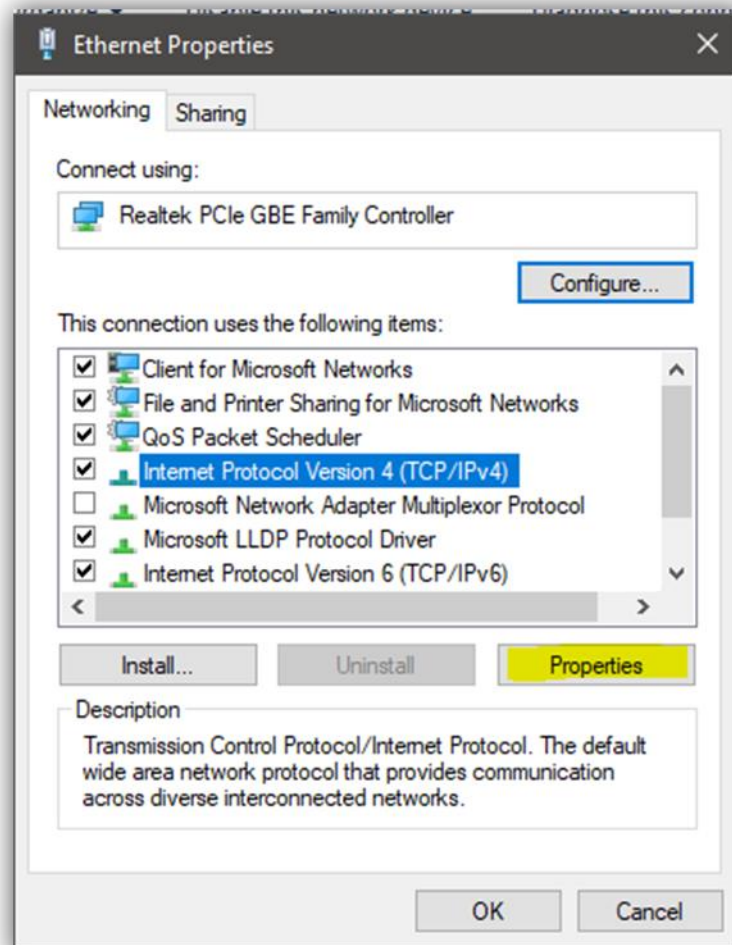


This will bring up a new window.



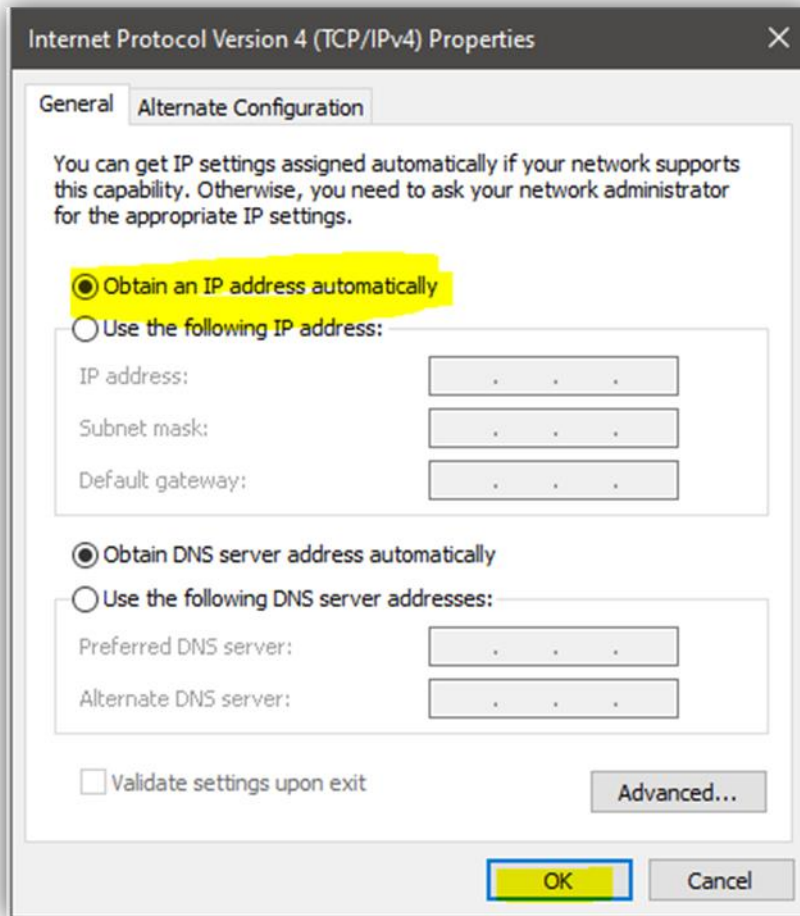
Right-Click on '**Ethernet**' and select '**Properties**'.

This will bring up a new window.



Highlight '**Internet Protocol Version 4 (TCP/IPv4)**' and select the '**Properties**' button.

This will bring up a new window.



Select '**Obtain an IP address automatically**' (or use DHCP) and hit the '**OK**' button to confirm the changes. This will allow your router to assign you an IP address that works with your network's scheme and provide you access to the internet.

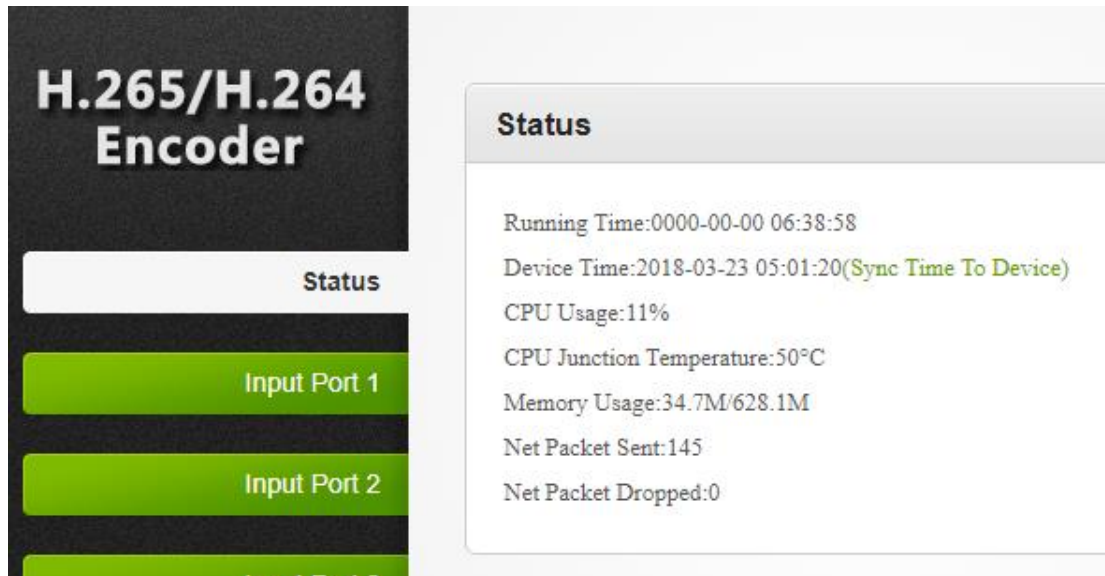
After these changes have been made, you can confirm two things:

- 1) Open a web browser to confirm you have regained internet access
- 2) Open a web browser, type in the new static IP address of your encoder in the web address bar and ensure you can now access the encoder's WEB GUI via your own network (vs direct connection). (*User name – admin, Password – admin*)

NAVIGATING THE JTECH-ENCH54 WEB GUI

Status Menu

DEVICE STATUS INFORMATION



The screenshot displays the web interface for an H.265/H.264 Encoder. On the left, a dark sidebar contains the title 'H.265/H.264 Encoder' and a 'Status' button. Below the button are three green buttons labeled 'Input Port 1', 'Input Port 2', and 'Input Port 3'. The main content area on the right has a light gray background and a 'Status' header. Below the header, the following status information is listed:

- Running Time:0000-00-00 06:38:58
- Device Time:2018-03-23 05:01:20(Sync Time To Device)
- CPU Usage:11%
- CPU Junction Temperature:50°C
- Memory Usage:34.7M/628.1M
- Net Packet Sent:145
- Net Packet Dropped:0

Running Time – Amount of time elapsed since encoder has powered on

Device Time – Time that the encoder references

CPU Usage – Current percentage of CPU processing power being used

CPU Junction Temperature – Current temperature of CPU

Memory Usage – Current memory usage / Available memory total

Net Packet Sent – Amount of packets sent from encoder

Net Packet Dropped – Amount of packets dropped by encoder

INPUT PORT 1 – INPUT STATUS | MAIN STREAM URLS

Input Port 1

Input Status

Input Size:1280x720p@0

Collected Video Frames:308

Lost Video Frames:2

Audio Samplerate:48000

Main Stream

Encode Type:H.264

Encode Size:1280x720@30

Bitrate(kbit):3200

TS URL:http://192.168.1.254/0.ts

HLS URL:Disable

FLV URL:http://192.168.1.254/0.flv

RTSP URL:rtsp://192.168.1.254/0

RTMP URL:Disable

RTMP PUSH URL:Disable

Multicast URL:Disable

SRT URL:Disable

SRT PUSH URL:Disable

[Preview\(HTML5\)](#) [Preview\(FLASH\)](#)

Input Status

Input Size – HDMI Input Resolution & Refresh Rate

Collected Video Frames – Captured Video Frames

Lost Video Frames – Lost Video Frames

Audio Sample Rate – HDMI Input Audio Sample Rate

Main Stream

Encode Type: H.264 | H.265 | MJPG

Encode Size: Stream Resolution & Refresh Rate

Bitrate (kbit): Bitrate Setting

TS URL: Transport Stream URL

HLS URL: HTTP Live Stream URL

FLV URL: HTTP-Flash Video Stream URL

RTSP URL: Real Time Streaming Protocol URL

RTMP URL: Real Time Messaging Protocol URL

RTMP PUSH URL: Real Time Messaging Protocol Push URL

Multicast URL: Multicast Stream URL

SRT URL: Secure Reliable Transport URL

SRT PUSH URL: Secure Reliable Transport Push URL

Input Port 1 – 4 Menu

ENCODER (MAIN STREAM – SUBSTREAM 3)

H.265/H.264 Encoder

Status

Input Port 1

Encoder

- Main stream
- Substream1
- Substream2
- Substream3

OSD

- Main stream
- Substream1
- Substream2
- Substream3

VIDEO upload

Video

Audio

Input Port 2

Input Port 3

Input Port 4

Main stream

Encoding type: ▼

FPS: [5-60]

Bitrate(kbit): [32-32000]

Encoded size: ▼

Bitrate control: ▼

TS URL: ▼

HLS URL: ▼

FLV URL: ▼

RTSP URL: ▼

RTMP URL: ▼

RTMP(S)/RTSP PUSH URL: ▼

Multicast IP: ▼

Multicast port: [1-65535]

SRT URL Port: ▼

SRT PUSH URL: ▼

SRT Encryption Password: ▼

Your encoder setting options are the same for 'Main Stream' & all substreams. However, each stream must be configured as desired.

Encode Type: H.264 | H.265 | MJPG – Select your compression type

FPS: Frames Per Second – Set your stream FPS (5-60 fps)

Bitrate (kbit): Stream's Bitrate Setting (32 – 32000 kbps)

Bitrate Control: VBR (Variable Bit Rate) | CBR (Constant Bit Rate)

TS URL: Enable/Disable Transport Stream URL

HLS URL: Enable/Disable HTTP Live Stream URL

FLV URL: Enable/Disable HTTP-Flash Video Stream URL

RTSP URL: Enable/Disable Real Time Streaming Protocol URL

RTMP URL: Enable/Disable Real Time Messaging Protocol URL

RTMP(S) / RTSP PUSH URL: Enable/Disable Real Time Messaging/Streaming Protocol Push URL

Multicast IP: Enable/Disable & set the Multicast IP to be used

Multicast Port: Assign the multicast port to be used (1 – 65535)

SRT URL: Enable/Disable Secure Reliable Transport URL

SRT PUSH URL: Enable/Disable Secure Reliable Transport Push URL

SRT Encryption Password: Set password necessary to view SRT stream

OSD (MAIN STREAM – SUBSTREAM 3)

The screenshot displays the 'H.265/H.264 Encoder' web interface. On the left is a dark sidebar with a menu containing 'Status', 'Input Port 1', 'Encoder' (with sub-items 'Main stream', 'Substream1', 'Substream2', 'Substream3'), 'OSD' (with sub-items 'Main stream', 'Substream1', 'Substream2', 'Substream3'), 'LOGO upload', 'Video', and 'Audio'. The 'Main stream' item under 'OSD' is highlighted in yellow. The main content area has a light gray header 'Main stream'. Below it, there is an 'Alpha' setting with a text input field containing '100' and a range indicator '[0-128]'. This is followed by four sections labeled 'Zone 1', 'Zone 2', 'Zone 3', and 'Zone 4'. Each zone has a 'Zone:' label and a dropdown menu currently showing 'Disable'. At the bottom of the main content area is a green 'Apply' button.

Alpha – Transparency of Zone 1 OSD (0-128, 0 = 100% transparency)

Zone 1 – Zone 4

Main stream

Alpha: [0-128]

Zone 1

Zone:

Type:

X: [0-1920]

Y: [0-1080]

Font size: [8-72]

Background color:

Color: [select color](#)

Zone – Enable/Disable OSD 1, 2, 3 or 4

Type -

- **txt** – Customizable OSD Text
 - **X:** Location on x-axis (0 - 1920)
 - **Y:** Location on y-axis (0 - 1080)
 - **Text:** Customized text you'd like shown on the OSD
 - **Font Size:** Size of font on OSD (8 - 72)
 - **Background Color:** Transparent | White | Black
 - **Color:** Color of text
- **bmp** – Select a "logo.bmp" Image for OSD
 - **X:** Location of image on x-axis (0 - 1920)
 - **Y:** Location of image on y-axis (0 - 1080)

- **Logo:** Choose between uploaded images “logo1.bmp” – “logo16.bmp”
- **scroll txt** – Customizable OSD Text that Scrolls
 - **Position:** Location of scrolling text on y-axis (0 – 1080)
 - **Speed:** Rate at which text scrolls (0 – 30)
 - **Text:** Customized text you’d like shown on the OSD
 - **Font Size:** Size of font on OSD (8 - 72)
 - **Background Color:** Transparent | White | Black
 - **Color:** Color of text
- **time** – OSD Shows Date & Time
 - **X:** Location of image on x-axis (0 - 1920)
 - **Y:** Location of image on y-axis (0 – 1080)
 - **Font Size:** Size of font on OSD (8 - 72)
 - **Background Color:** Transparent | White | Black
 - **Color:** Color of text

LOGO UPLOAD

LOGO upload

LOGO: Choose File No file chosen

Please upload PNG or 24-bit BMP(0xF1F1F1 is transparent) pictures less than 500 kByte,
The file name is logo1.bmp/logo2.bmp~logo16.bmp or logo1.png/logo2.png~logo16.png.

Upload

In this section, the end user can upload up to 16 custom images to their encoder. The requirements for each image are as follows:

- Image file must be in PNG or 24-bit BMP format (0xF1F1F1 is transparent)
- Image file must be less than 500 KB in size
- File name must be “logo1.bmp” “logo2.bmp” “logo3.bmp” etc.

VIDEO

Video

Video Rotate: 0° ▾

Flip And Mirror: Disable ▾

Video Clipping: Enable ▾

Video Clipping(Left): 0 [0,1920]

Video Clipping(Right): 0 [0,1080]

Video Clipping(Width): 0 [0,1920]

Video Clipping(Height): 540 [0,1080]

Apply

Video Rotate – Rotate your image 90° | 180° | 270°

Flip and Mirror -

Flip: Flip image over Y-Axis

Mirror: Mirror image over X-Axis

Flip & Mirror: Flip & Mirror image over X and Y axis

Video Clipping – Enable | Disable Clipping Functions

Video Clipping (Left): Shifts image horizontally from left side (*0 – 1920, 0 = left*)

Video Clipping (Right): Shifts image vertically from bottom (*0 – 1080, 0 = bottom*)

Video Clipping (Width): Shifts image horizontally from right side (*0 – 1920, 0 = right*)

Video Clipping (Height): Shifts image vertically from top (*0 – 1080, 0 = top*)

AUDIO

Audio

Audio Input: DIGIT ▾

Samplerate: 44100 ▾

Encoder: AAC ▾

Bitrate: 128000 [48000~256000]

Digital Volume Gain: 0 [-50~50]

ONVIF Audio

G711A Over RTSP: Disable ▾

Apply

Audio Input –

Digital: Audio from HDMI input port

Analog: Audio from analog audio input port *(only available for Input Port 1 & 2)*

Mix: Audio from both HDMI input port and analog audio input port

Sample Rate – 44100 Hz | 48000 Hz

Encoder – Audio Encoding Type (AAC | AAC+ | AAC++ | AC3 | MP3 | MP2)

Bit Rate – 48000 – 256000 Kbps

Digital Volume Gain – (-50 – 50)

ONVIF AUDIO

G711A Over RTSP – Enable | Disable | Enable & Resample with 8K (*enable or disable G711A audio codec*)

System

NETWORK

Network

internet access

DHCP:

Disable ▾

IP:

192.168.1.254

Netmask:

255.255.255.0

Gateway:

192.168.1.1

MAC:

00:13:14:02:46:B5

Internet Access

DHCP – Enable | Disable

IP – Field for assigning static IP address

NetMask – Field for assigning custom netmask

Gateway – Field for assigning custom gateway

MAC – MAC Address of device

DNS

DNS1 - Address of DNS Server 1

DNS2 - Address of DNS Server 2

DNS

DNS1:

8.8.8.8

DNS2:

8.8.4.4

NTP

NTP Enable – Enable | Disable (enable or disable network time protocol)

NTP Server – Network Time Protocol Reference Server Address

Time Zone – UTC Time Zone Selection

NTP

NTP Enable:

NTP Server:

Time Zone:

Port

Port

HTTP Port – Field for assigning custom HTTP Port

HTTP Port: [1-65500]

RTSP Port – Field for assigning custom RTSP Port

RTSP Port: [1-65500]

Apply

ADVANCED

EDID – 4K30 + 1080P60 | 1920 x 1080 @ 60Hz (ITE) | 1920 x 1080 @ 60Hz (Dell U2414H)

Video Only – Enable | Disable Video Only Stream

Audio Only – Enable | Disable Audio Only Stream

Deinterlaced – Both | Bottom Only | Field to Frame; When the input signal is interlaced, the format stream is divided into even and odd fields.

- Both – Even and odd fields are treated in turn
- Bottom Only – Only one of odd or even fields is dealt with
- Field to Frame – Even and odd fields are converted into a frame

HLS Splitter Time (s) – HLS segmented output setting for each period of time

HLS Number – Number of cached HLS streams

SRT Latency (ms) – Latency of SRT stream

TS Muxer - FFMPEG or VLC audio video library for TS streams

Net Drop Threshold - The buffer length for the encoder. If the data is blocked due to network congestion or the decoder is busy, and the buffer data is over the buffer threshold, the encoder will drop the buffered data.

TS Once Pack - The number of bytes per TS package pushed by the encoder.

TS_Transport_Stream_ID - The transport ID of the TS stream

TS_PMT_Start_PID - The initial ID for the PMT in the TS stream

TS_Start_PID - The initial ID for the TS stream

TS_Tables_Version - The version of the PAT in the TS stream

TS_Service_Name – The service name of the TS stream

TS_Service_Provider - The provider of the TS stream

TS Empty Packet - Inserting empty package to the TS stream

TS Password Enable - Client will input password to access the stream via HTTP

Vmix Compatible - Enable VMix playing

TS OVER RTSP - setting the working mode for RTSP

Multicast Type - the protocols for multicast

Enable SAP – Enables service access point

UDP TTL – Time to live setting for UDP packet

UDP Socket_Buf_Size – Socket Buffer Size for UDP

Slice Split Enable - The setting for H264 slice

Slice Size - The size for H264 slice

Min_QP - Usually, the lower the QP equates to better image quality & higher bit rate. The higher the QP, the image quality will decrease and bit rate will be lowered. The encoder will select the QP from MIN to MAX to fit the network.

Max_QP - Usually, the lower the QP equates to better image quality & higher bit rate. The higher the QP, the image quality will decrease and bit rate will be lowered. The encoder will select the QP from MIN to MAX to fit the network.

Contrast Improve – Image contrast enhancement

Image Enhance – Image sharpness enhancement

Y Space Filter – Intensity of brightness static denoising

Y Time Filter – Intensity of brightness dynamic denoising

C Space Filter – Intensity of chroma static denoising

C Time Filter – Intensity of chroma dynamic denoising

CHANGE PASSWORD

Old Password – Field for entering current password

New Password – Field for entering new desired password

Confirm New Password – Field for confirming new desired password

SERIAL TO TCP

Baud Rate – 300 | 600 | 1200 | 2400 | 4800 | 9600 | 19200 | 38400 | 43000 | 56000 | 57600 | 115200

TCP Port – Port 1 – 65535

UPGRADE AND BACKUP

Upload Firmware and Configuration – In this section, the user can identify their current firmware version as well as upload new firmware (*up.rar*) or configuration (*box.ini*) files

Backup Firmware and Configuration – In this section, the user can backup and save their current firmware version and/or configuration

RESET

Clicking the 'Reset' button will reset all of the encoder's settings to factory default.

REBOOT

Clicking the 'Reboot' button will power cycle the encoder.

SCHEDULE RESTART

Restart Enable – Disable | Enable Scheduled Restart Function

Restart Time – Field for entering schedule restart time



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