

## PRODUCT MODEL NUMBER: TL-9542 1 SDI TO 4 ATSC Encoder Modulator



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# INDEX

## TABLE OF CONTENTS

<b>CHAPTER 1 INTRODUCTION</b> .....	<b>3</b>
1.1 PRODUCT OVERVIEW .....	3
1.2 KEY FEATURES .....	3
1.3 SPECIFICATIONS.....	4
1.4 PRINCIPLE CHART.....	6
1.5 APPEARANCE AND DESCRIPTION.....	6
<b>CHAPTER 2 INSTALLATION GUIDE</b> .....	<b>8</b>
2.1 ACQUISITION CHECK.....	8
2.2 INSTALLATION PREPARATION .....	8
2.3 DEVICE'S INSTALLATION FLOW CHART .....	9
2.4 ENVIRONMENT REQUIREMENT.....	9
2.5 GROUNDING REQUIREMENT .....	10
2.5.1 FRAME GROUNDING.....	10
2.5.2 DEVICE GROUNDING.....	10
2.6 WIRE'S CONNECTION.....	11
2.7 SIGNAL CABLE CONNECTION.....	11
2.7.1 SDI CABLE ILLUSTRATION.....	11
2.7.2 ASI OUTPUT CABLE ILLUSTRATION .....	12
2.7.3 NETWORK CABLE ILLUSTRATION.....	12
<b>CHAPTER 3 OPERATION</b> .....	<b>12</b>
3.1 LCD MENU STRUCTURE.....	13
3.2 GENERAL SETTINGS FOR MAIN MENU .....	15
<b>CHAPTER 4 WEB NMS OPERATION</b> .....	<b>22</b>
4.1 LOGIN .....	22
4.2 OPERATION .....	23
<b>CHAPTER 5 LOW DELAY SETTINGS</b> .....	<b>34</b>
<b>CHAPTER 6 TROUBLESHOOTING</b> .....	<b>35</b>
<b>CHAPTER 7 PACKING LIST</b> .....	<b>36</b>

# CHAPTER 1

## INTRODUCTION

### 1.1 PRODUCT OVERVIEW

TL-9542 series products are TRANSLITE's all-in-one devices which integrate encoding, multiplexing and modulation to convert V/A signals into digital RF output. It adopts inner drawer-type structural design which greatly facilitates the change of encoding modules (HDMI/CVBS/SDI/YPbPr/...) as needed. To meet customers' various requirements, TL-9542 is also equipped with 1 ASI input for re-mux, and output with 2 ASI ports and 1 IP port.

The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. Its output signals are to be received by TVs, STB etc., with corresponding standard.

With its various inputs available, our TL-9542 series products are wildly used in public places such as metro, market hall, theatre, hotels, resorts, etc., for advertising, monitoring, training and educating in company, schools, campuses, hospital. It's a good choice to offer additional info channels.

### 1.2 KEY FEATURES

- 1 SDI inputs, 1\*ASI in for re-mux; 1\*RF in for RF mix
- MPEG2 HD/SD & MPEG4 AVC H.264 HD/SD video encoding
- MPEG4-AAC; MPEG2-AAC; MPEG1 Layer 2 and Dolby Digital AC3 2.0(Optional) audio encoding
- Huge video buffer, free to switch video sources
- Dialog Normalization (Optional)
- Support CC (closed caption) (Optional)

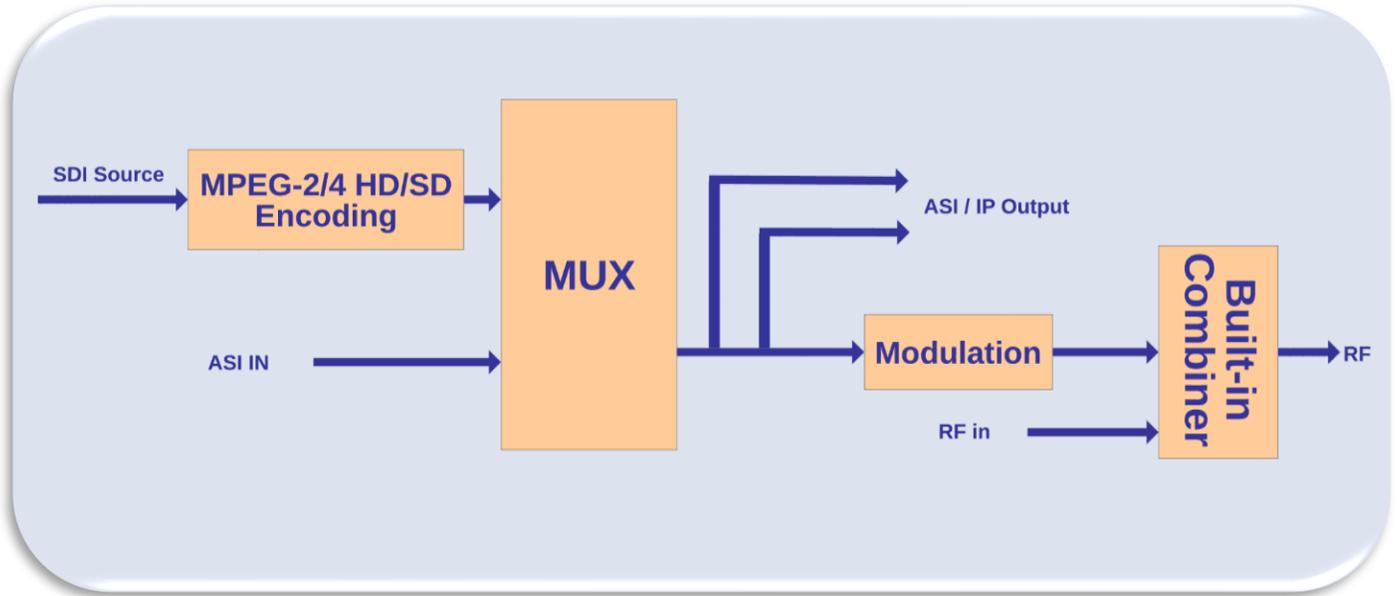
- Support low delay encoding mode (Optional)
- Support VBR/CBR rate control mode
- Support PSI/SI editing
- Support PCR accurate adjusting
- Support PID re-mapping and passthrough
- Digital ATSC RF out and ASI out; IP out
- VCT (Virtual Channel Table)
- Modular design, pluggable encoding modules
- LCD display, Remote control and firmware
- Web-based NMS management; Updates via web
- Lowest cost per channel

## 1.3 SPECIFICATIONS

Encoding Section - Video	
<b>Encoding</b>	MPEG2; MPEG4 AVC/H.264
<b>Interface</b>	SDI*1
<b>Resolution</b>	1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only) 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i
<b>Low Delay</b>	Normal, Mode 1, Mode 2
<b>Aspect Ratio</b>	4:3; 16:9
<b>Bit Rate</b>	1-19.5Mbps
<b>Rate Control</b>	VBR/CBR
<b>Chroma</b>	4:2:0

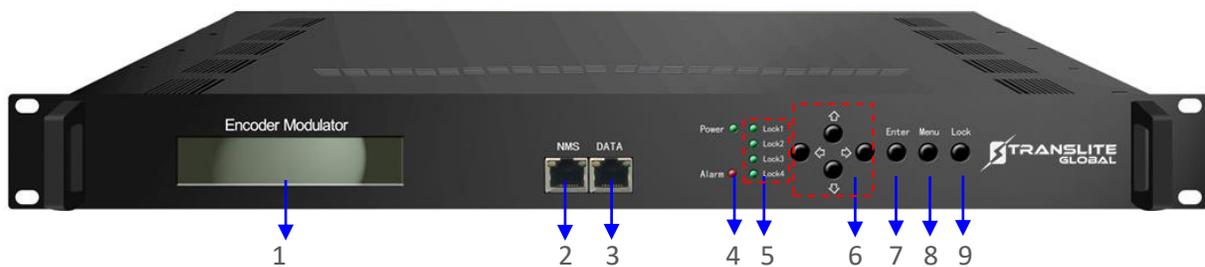
Encoding Section – Audio	
<b>Encoding</b>	MPEG1 Layer II ,MPEG2-AAC, MPEG4-AAC and Dolby Digital AC3 2.0( Optional)
<b>Sample rate</b>	48KHz
<b>Bitrate</b>	64/96/128/ 192/256/320kbps
Modular Section ATSC	
<b>Standard</b>	ATSC A/53
<b>Constellation</b>	8 VSB
<b>RF output level</b>	-26~-10dbm (81~97dbμV), 0.1db step
<b>MER</b>	≥42dB
<b>RF frequency</b>	30~960MHz, 1KHz step
<b>RF output</b>	1*ATSC 4*ATSC carriers combined output (optional)
System	
<b>Local interface</b>	LCD + control buttons
<b>Remote management</b>	Web NMS
<b>Stream Out</b>	2 ASI mirrored out (BNC type, 100M)  IP (4 SPTS+1MPTS) over UDP, RTP/RTSP out, RJ45, 100M (MPTS is available for DVB-C/ATSC out versions)
<b>NMS interface</b>	RJ45, 100M
<b>Language</b>	English
General	
<b>Power supply</b>	AC 100V~240V
<b>Dimensions</b>	482*300*44mm
<b>Weight</b>	4.5 kg
<b>Operation temperature</b>	0~45°C

## 1.4 PRINCIPLE CHART



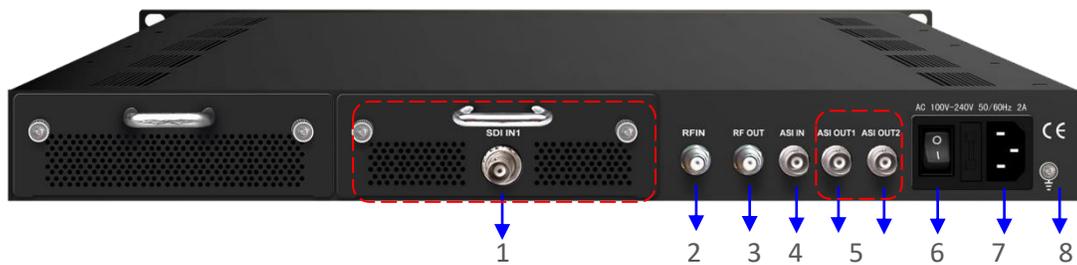
## 1.5 APPEARANCE AND DESCRIPTION

### Front Panel Illustration



1	LCD Screen
2	NMS Port
3	Data Port
4	Power and Alarm Indicators
5	TS Lock Indicators
6	Up and Down, Left and Right Buttons
7	Enter Mode: For Confirm
8	Menu Button: For Back Step
9	Lock Button: Press to Lock Set

### Rear Panel Illustration



1	SDI Input interface
2	RF Input interface
3	RF Output interface
4	ASI Input interface
5	ASI output interface 1 & 2
6	Power Switch
7	Power supply Slot
8	Grounding

## CHAPTER 2

# INSTALLATION GUIDE

This section is to explain the cautions the users must know in some case that possibly injure may bring to users when it's used or installed. For this reason, please read all details here and make in mind before installing or using the product.

## 2.1 ACQUISITION CHECK

When users open the package of the device, it is necessary to check items according to packing list. Normally it should include the following items:

- TL-9542 Encoder Modulator
- User's Manual
- ASI Cable
- Power Cord

If any item is missing or mismatching with the list above, please contact local dealer.

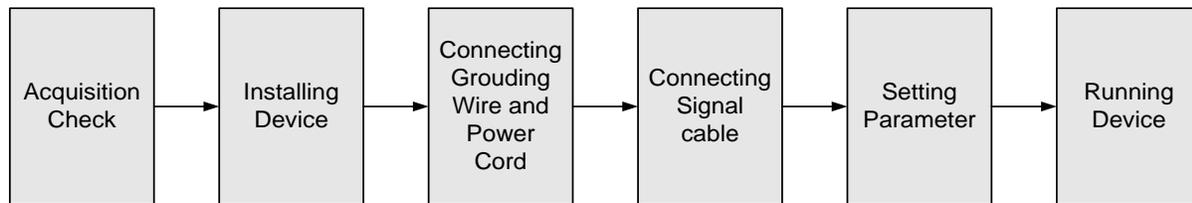
## 2.2 INSTALLATION PREPARATION

When users install device, please follow the below steps. The details of installation will be described at the rest part of this chapter. Users can also refer rear panel chart during the installation.

The main content of this chapter including:

- Checking the possible device missing or damage during the transportation
- Preparing relevant environment for installation
- Installing Encoder Modulator
- Connecting signal cables
- Connecting communication port (if it is necessary)

## 2.3 DEVICE'S INSTALLATION FLOW CHART



## 2.4 ENVIRONMENT REQUIREMENT

Item	Requirement
Machine Hall Space	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be 1.2~1.5m and the distance against wall should be no less than 0.8m.
Machine Hall Floor	Electric Isolation, Dust Free Volume resistivity of ground anti-static material: $1 \times 10^7 \sim 1 \times 10^{10} \Omega$ , Grounding current limiting resistance: $1 \text{M}\Omega$ (Floor bearing should be greater than $450 \text{Kg}/\text{m}^2$ )
Environment Temperature	$5 \sim 40^\circ\text{C}$ (sustainable), $0 \sim 45^\circ\text{C}$ (short time) installing air-conditioning is recommended
Relative Humidity	20%~80% sustainable 10%~90% short time
Pressure	$86 \sim 105 \text{KPa}$
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window
Wall	It can be covered with wallpaper, or brightness less paint.
Fire Protection	Fire alarm system and extinguisher
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC $110\text{V} \pm 10\%$ , 50/60Hz or AC $220\text{V} \pm 10\%$ , 50/60Hz. Please carefully check before running.

## 2.5 GROUNDING REQUIREMENT

- All function modules' good grounding is the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.
- Coaxial cable's outer conductor and isolation layer should keep proper electric conducting with the metal housing of device.
- Grounding conductor must adopt copper conductor in order to reduce high frequency impedance, and the grounding wire must be as thick and short as possible.
- Users should make sure the 2 ends of grounding wire well electric conducted and be antirust.
- It is prohibited to use any other device as part of grounding electric circuit
- The area of the conduction between grounding wire and device's frame should be no less than 25mm<sup>2</sup>.

### 2.5.1 FRAME GROUNDING

All the machine frames should be connected with protective copper strip. The grounding wire should be as short as possible and avoid circling. The area of the conduction between grounding wire and grounding strip should be no less than 25mm<sup>2</sup>.

### 2.5.2 DEVICE GROUNDING

Connecting the device's grounding rod to frame's grounding pole with copper wire.

## 2.6 WIRE'S CONNECTION

The grounding wire conductive screw is located at the right end of rear panel, and the power switch, fuse, power supply socket is just besides, whose order goes like this, power switch is on the left, power supply socket is on the right and the fuse is just between them.

- Connecting Power Cord
- User can insert one end into power supply socket, while insert the other end to AC power.
- Connecting Grounding Wire
- When the device solely connects to protective ground, it should adopt independent way, say, share the same ground with other devices. When the device adopts united way, the grounding resistance should be smaller than  $1\Omega$ .

### ⚠ Caution:

Before connecting power cord to TL-9542 Encoder Modulator, user should set the power switch to "OFF".

## 2.7 SIGNAL CABLE CONNECTION

The signal connections include the connection of input signal cable and the connection of output signal cable. The details are as follows:

### 2.7.1 SDI CABLE ILLUSTRATION



## 2.7.2 ASI OUTPUT CABLE ILLUSTRATION



## 2.7.3 NETWORK CABLE ILLUSTRATION



## CHAPTER 3

### OPERATION

TL-9542 Encoder Modulator's front panel is user operating interface. Before operating, user can decide whether directly use the default setting or customize the input and output parameters setting. The detail operations go as follows:

#### Keyboard Function Description:

**ENTER:** Activating the parameters which need modifications, or confirming the change after modification.

**MENU:** To cancel presently entered value, resume previous setting and return to previous menu.

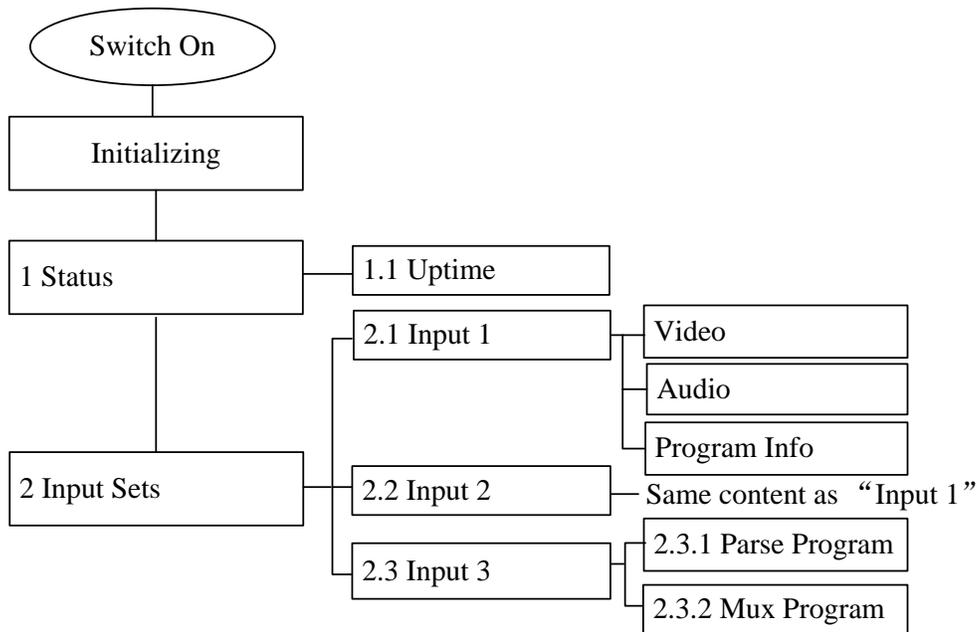
**LEFT/RIGHT:** To move the "▶" to choose or set the parameters.

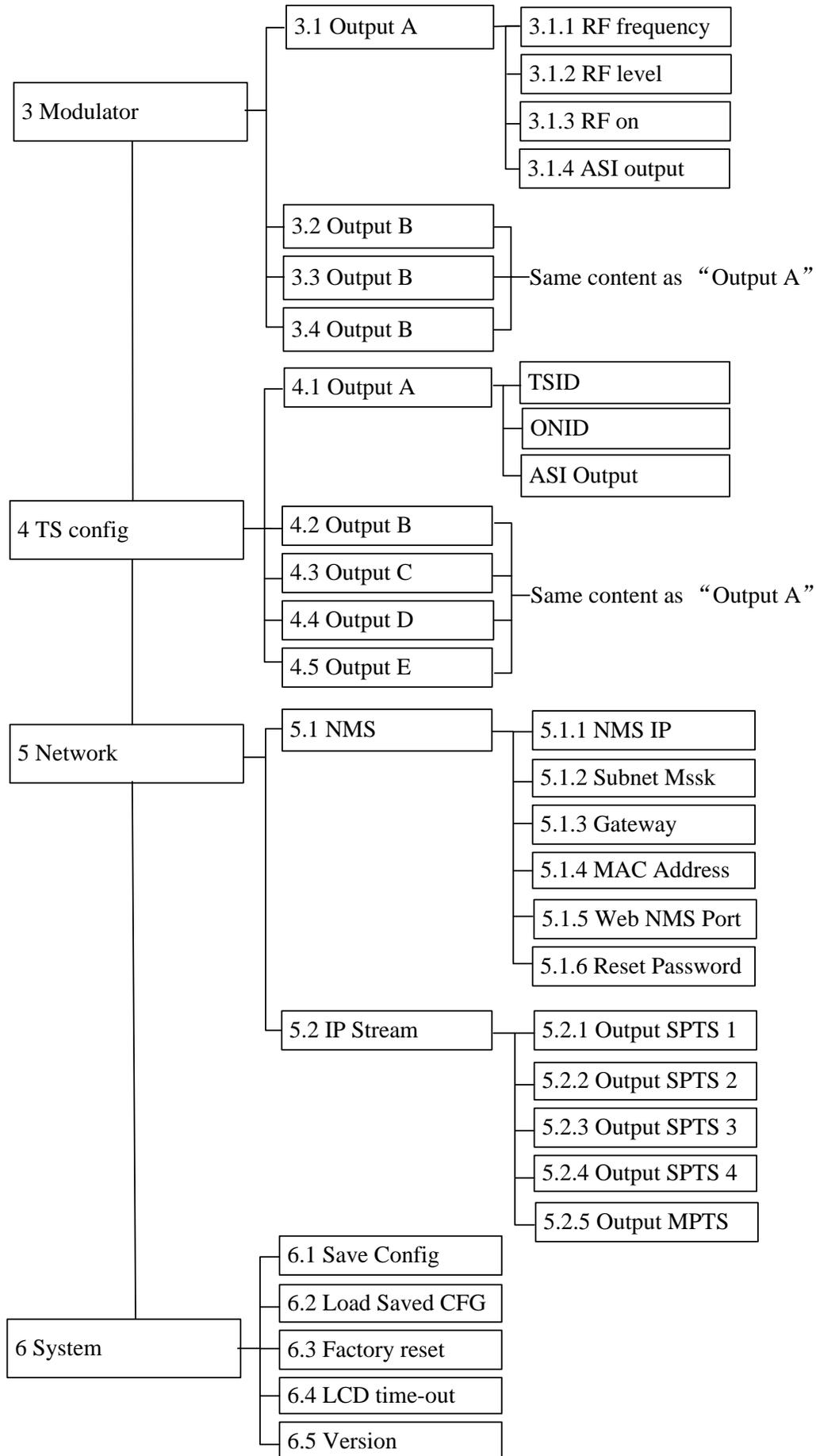
**UP/DOWN:** To modify activated parameter or page up/down when parameter is inactivated.

**LOCK:** To Lock the screen / cancel the lock state. After pressing lock key, the system will question the users to save present setting or not. If not, the LCD will display the current configuration state.

At the “Factory Configuration” page, user can press “ENTER” key to restore the factory default configuration.

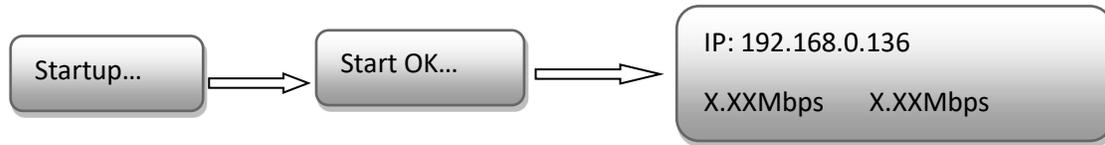
### 3.1 LCD MENU STRUCTURE





### Initial Status

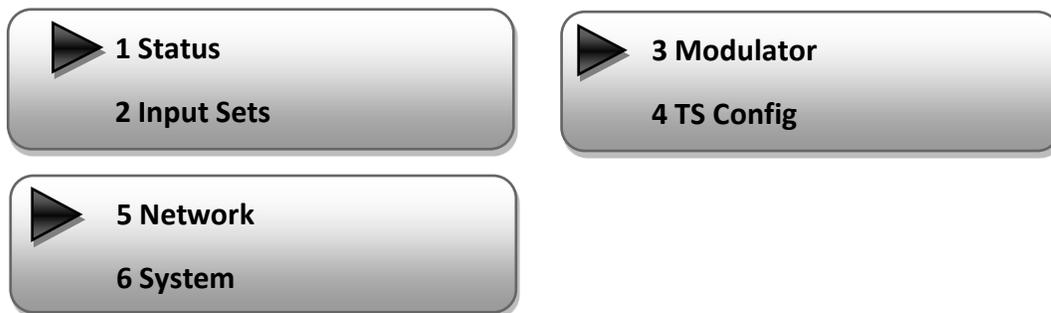
After powering on the device, it will take a few seconds to initialize the system. It shows as below:



- IP: Indicating the IP address of this device
- XXX Mbps indicates the first encoding channel bit rate.
- X.XX Mbps indicate the second encoding channel bit rate.

## 3.2 GENERAL SETTINGS FOR MAIN MENU

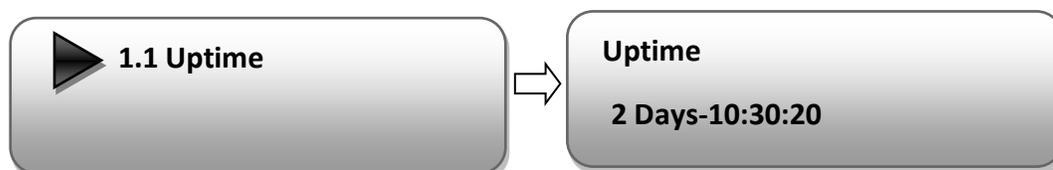
By pressing “Lock” key on the front panel, user can enter the main menu. The LCD will display the following pages:



User can press UP/DOWN buttons to specify menu item, and then press ENTER to enter the submenus as below:

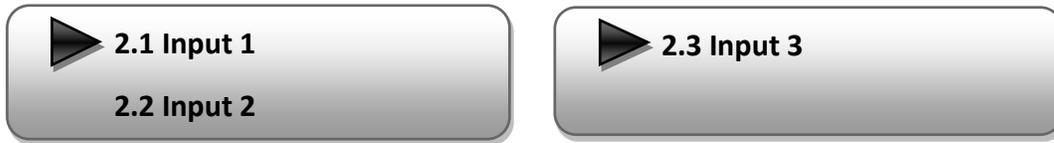
### 1) Status

Press Enter to enter “Status” and it displays the working time duration of the device. It times upon power on



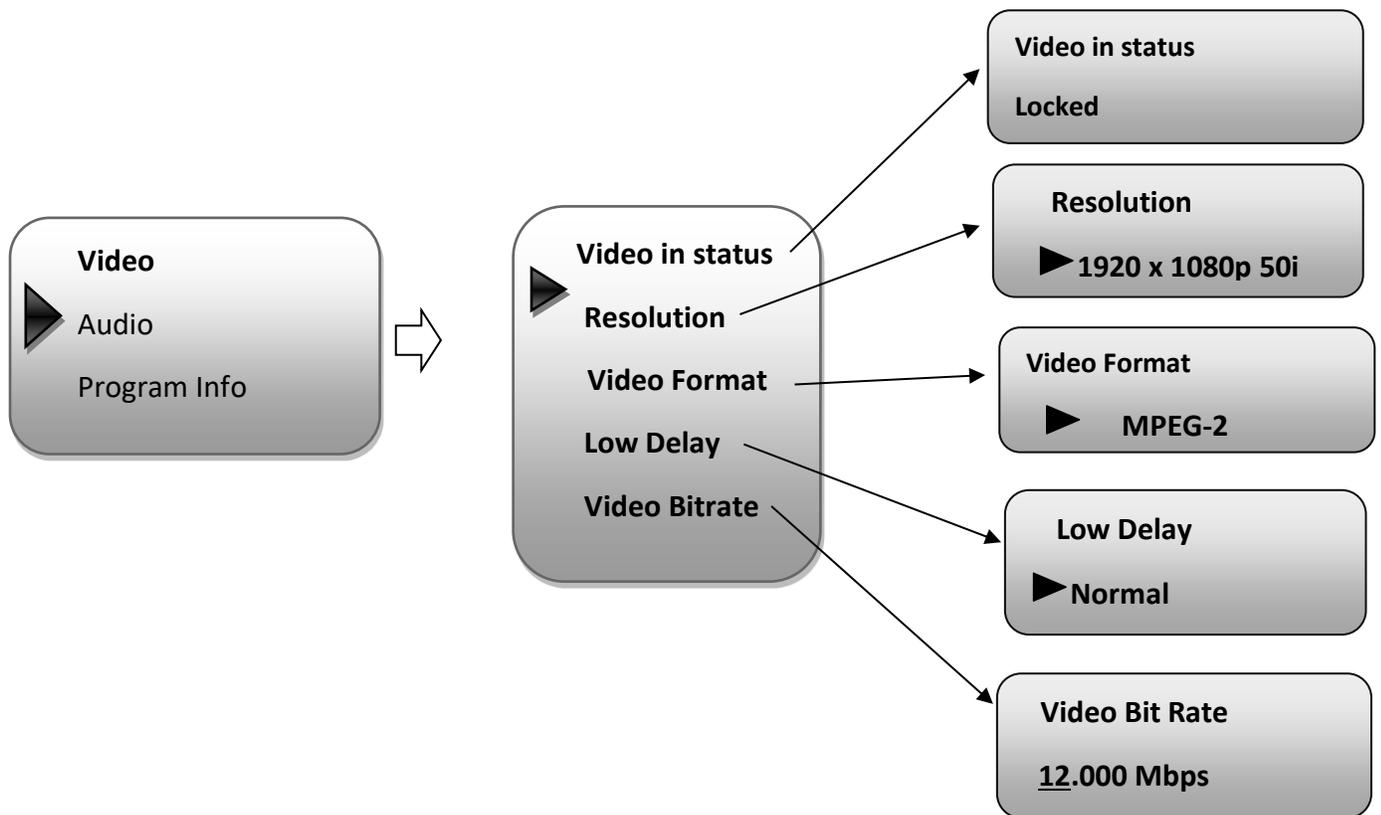
## 2) Input Sets

Under this submenu, the LCD will show “2.1 Input 1”, “2.2 Input 2” and “2.3 Input 3”.



Under submenus 2.1 and 2.2, user could set the audio, video and program information for each encoding module.

Users enter 2.1.1/2.2.1 to set the video corresponding parameters.

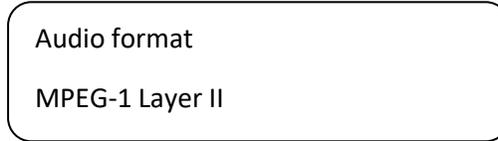


Note: TL-9542 support CC function only for SDI encoding module

Under submenu 2.2, user can set the audio corresponding parameters.

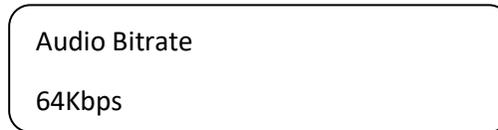
➤ **Audio format**

When entering “Audio format” submenu, user can select the audio format for this encoding module, TL-9542 support MPEG-1 Layer II, MPEG-2 AAC, MPEG-4 AAC and AC3. The LCD window would show as below:



➤ **Audio bitrate**

Under submenu 2.1.2.3, Audio Bit Rate can be selected by press “enter” key. (Bit rate range: 64/96/128/192/256/320 Kbps):

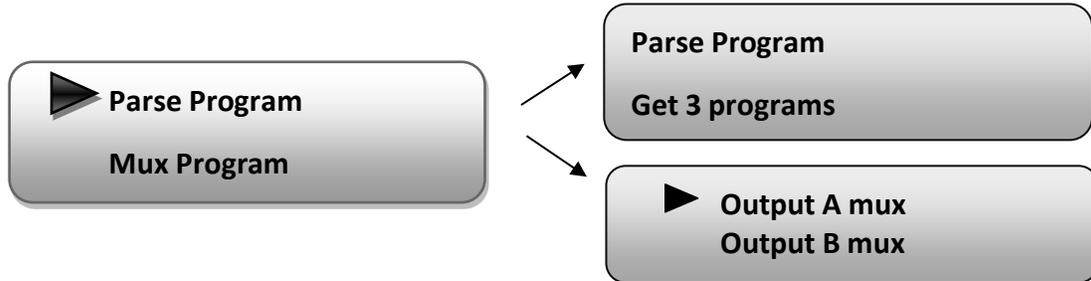


Users enter 2.3 to check the programs information and set the programs parameters.



<b>Program Output</b> Program out enable A	<b>Program Name</b> TV-101
<b>Service provider</b> TV provider	<b>Service ID</b> 0×101
<b>PMT PID</b> 0×100	<b>PCR PID</b> 0×103
<b>Video PID</b> 0×101	<b>Audio PID</b> 0×102

Submenu 2.3 represents the ASI input. User could parse and select program(s) to mux out.

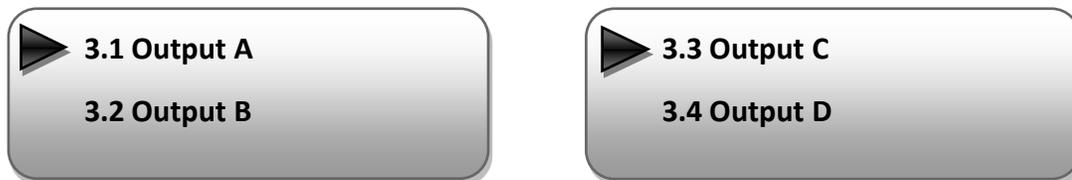


“Parse Program” is for checking the quantity of input programs from the corresponding Tuner input.

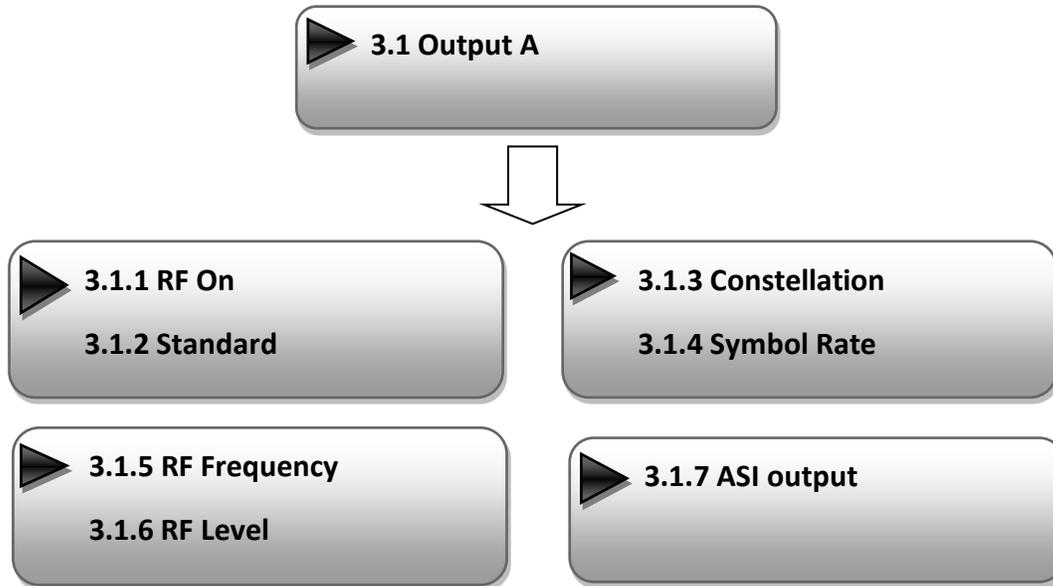
“Mux Program” is for selecting programs from the ASI IN to output via corresponding carrier output or ASI output (A, B, C, D, E optional). Move the triangle mark to specify the program and press RIGHT/LEFT keys to shift the mark between “√” and “X”. (“√”: to output the corresponding program; “X”: not to output the corresponding program).

### 3) Modulator Setting

When entering “Modulator” submenu, user can configure the modulating parameters for the 4-carrier output separately:



As the TL-9542 (DVB-C Modulating) is with 4 carrier outputs, “3.1”-“3.4” represent the “Carrier A”, “Carrier B”, “Carrier B”, and “Carrier D” respectively. User can enter “3.1”/“3.2”/“3.4”/“3.4” to set the corresponding modulating parameters. Submenus (taking “3.1” as an example) are as below:

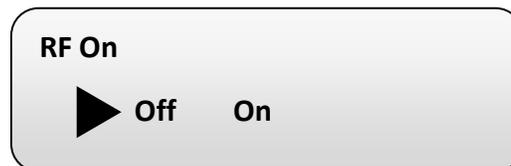


➤ **RF On**

This interface is to decide whether to enable the RF (carrier A) output or not.

**OFF:** to disable programs to output through carrier A.

**ON:** to enable programs to output through carrier A.



➤ **RF Frequency**

The RF output frequency range is from 30 to 960MHz with 1K stepping. After entering the RF frequency setting submenu, users can press LEFT, RIGHT, UP, and DOWN buttons to adjust the frequency and confirm by press ENTER button.



➤ **RF level**

The RF attenuation range is from -30~-10dbm (81~97dbμV) with 0.1db step. After entering this setting submenu, user can shift UP/DOWN/LEFT/RIGHT key to set the output level and press ENTER to confirm.



➤ **ASI Output:**

TL-9542B encoder & modulator (DVB-C Modulating) is with quad-carrier output A, B, C, D and 1 ASI output E.

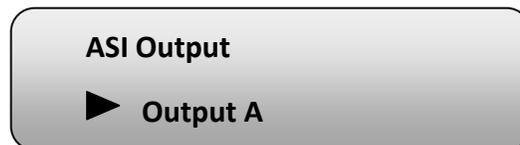
Output A: the ASI output programs are same as carrier output A.

Output B: the ASI output programs are same as carrier output B.

Output C: the ASI output programs are same as carrier output C.

Output D: the ASI output programs are same as carrier output D.

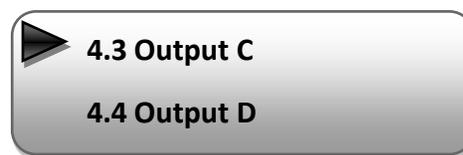
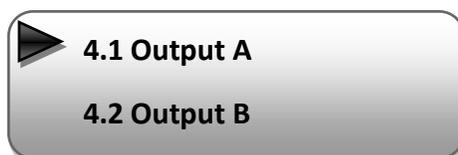
Output E: the ASI output programs are set separately.



NOTE: The setting principle of "3.2", "3.3", and "3.4" are the same with "3.1" explained above.

**4) TS Config**

Enter each menu to configure the TS ID and Original Network ID for the 4 carriers and ASI output.

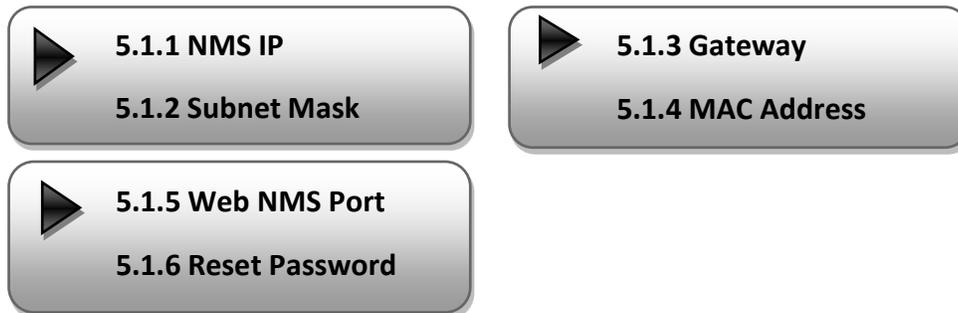


## 5) Network

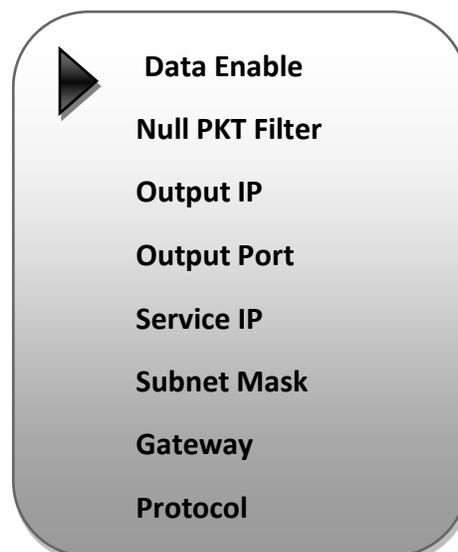
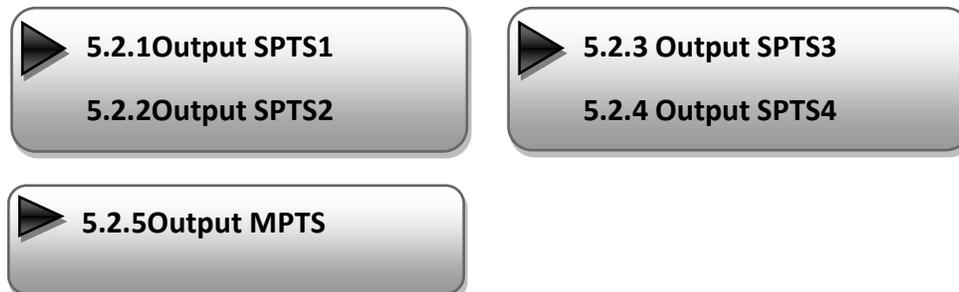
Network contains “5.1 NMS” and “5.2 IP Stream”.



“5.1 NMS” is for setting the network parameters for the connection between the device and PC.

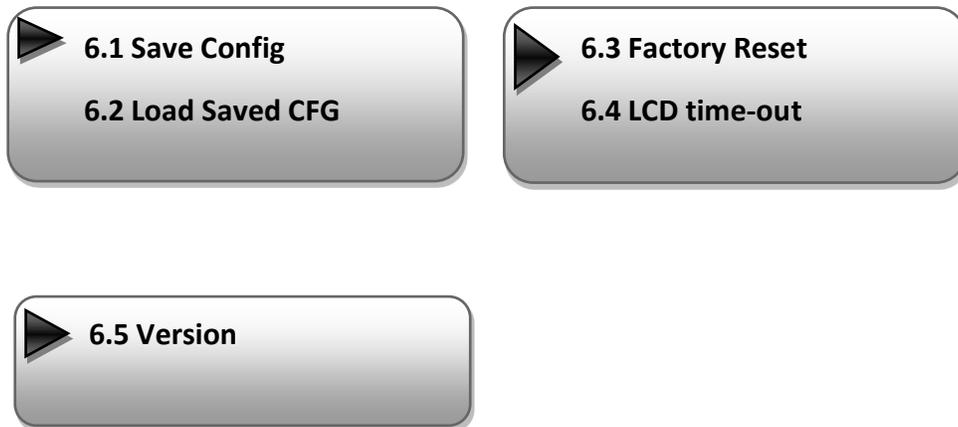


“IP Stream” is for configuring the 4 SPTS and 1 MPTS output respectively.



## 6) System

It contains 5 submenus where users can save/load configurations.



## CHAPTER 4

### WEB NMS OPERATION

User not only can use front buttons for setting configuration, but also can control and set the configuration in computer by connecting the device to web NMS Port. User should ensure that the computer's IP address is different from the TL-9542's IP address; otherwise, it would cause IP conflict.

#### 4.1 LOGIN

The default IP of this device is 192.168.0.136. We can modify the IP through the front panel.

Connect the pc and the device with net cable and use ping command to confirm they are on the same network segment.

I.G. the PC IP address is 192.168.99.252, we then change the device IP to 192.168.99.xxx (xxx can be 0 to 255 except 252 to avoid IP conflict).

Use web browser to connect the device with PC by inputting the Encoder & Modulator's IP address in the browser's address bar and press Enter.

It will display the Login interface as Figure-1. Input the Username and Password (Both the default Username and Password are "admin".) and then click "LOGIN" to start the device setting.

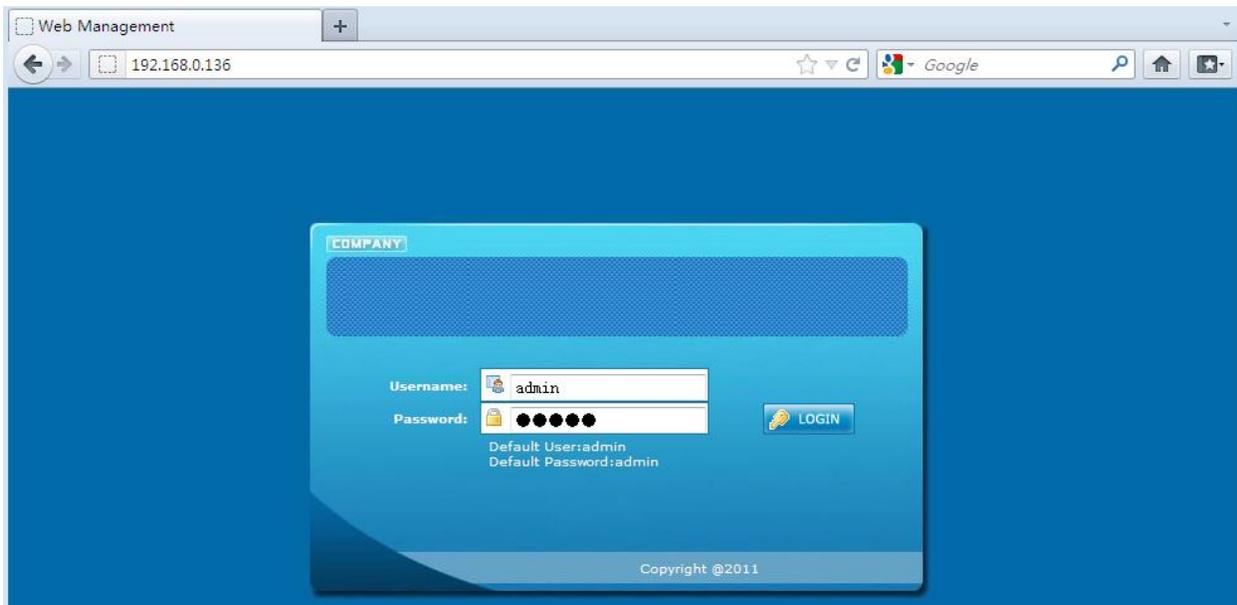


Figure-1

## 4.2 OPERATION

### Welcome

When we confirm the login, it displays the WELCOME interface as Figure-2.

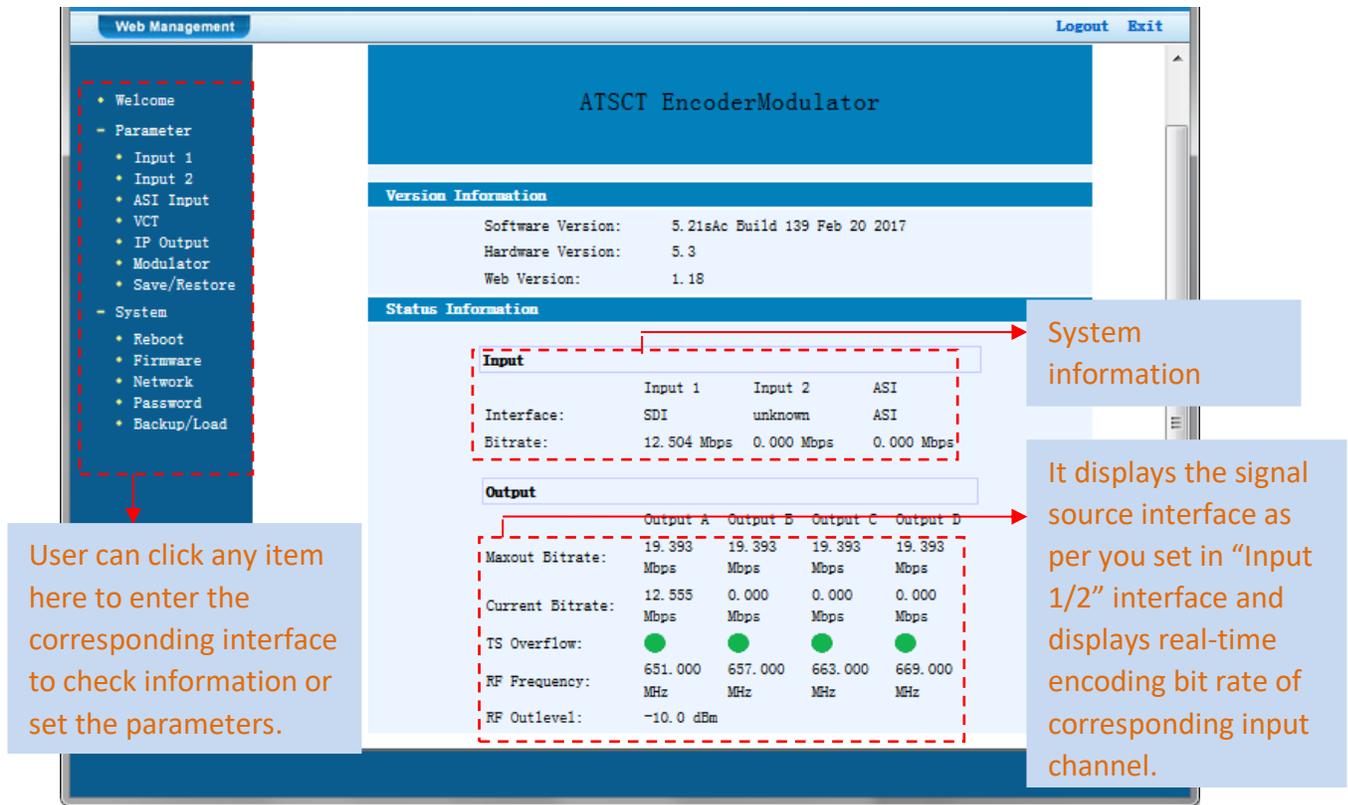


Figure-2

### Input 1

From the menu on left side of the webpage, clicking “Input 1”, it displays the information of the programs from the 1st encoding board (SDI) as Figure-3.



Figure-3

**Out Enable (ABCDE)**      User can choose the output program from 4 carriers(A, B, C, D) or ASI(E).

**Help** For user to turn to refer detailed explanation of terms on this interface

**Default** Click this button to apply the default setting of Input 1

**Apply** Click this button to apply the modified parameters.

**CC Switch** Please refer to the **Chapter 5** attached for detailed information.

..... NOTE .....

The different combination of **Video Format, Video Bit-rate, Low delay Mode and the Resolution** of signal source will have an impact on the latency. Please refer to the **Chapter 6** attached for detailed information.

.....

## Input 2

Similarly, from the menu on left side of the webpage, clicking “Input 2”, it displays the information of the programs from the 2<sup>nd</sup> (SDI) encoding board, this device only supports 1 SDI encoding board.

## ASI Input

Click “ASI Input”, it will display ASI input program information as Figure-4. User can parse and multiplex ASI IN programs in this interface.



Figure-4



The letters A to D represent the 4 carrier outputs. E represent the ASI output.

User can configure different program group for each carrier output.

**Passthrough**

If this item is selected, all the input programs will pass through without any elimination.

**Multiplex**

Selecting this item to allow user select programs as required to output.

**Refresh Input**

Click "Refresh Input" to refresh the input program list.

**Refresh Output**

Click "Refresh Output" to refresh the output program list.

**Select Program**

When user checks one input program with "√", one can transfer the checked program to the right box to output.

Here user can select the programs which we want to output or we can output all the programs.

**Cancel Program**

Similarly, user can cancel the multiplexed programs from the right box.

**All Input**

&

**All Output**

to select all the input/output programs with one-time clicking.

**Parse timeout**

200

seconds

Time limitation to parse the input programs

**PID Pass**

Click this button to trigger a dialog box as below, where to add the PIDs which need pass through.

On some occasions, there are some PIDs which won't belong to any program, such as EPG, NIT tables and so on which user just wants to pass them through the multiplexing module without changing anything. This is the main purpose of this function.



Click “Add”  to add more boxes for filling the Input & Output PIDs, then click “Apply” to confirm.

### VCT (Virtual Channel Table) Setting

Click “VIT” from the menu to trigger the screen as Figure-5. Then click “Add” from this screen to add the program descriptor in VCT.

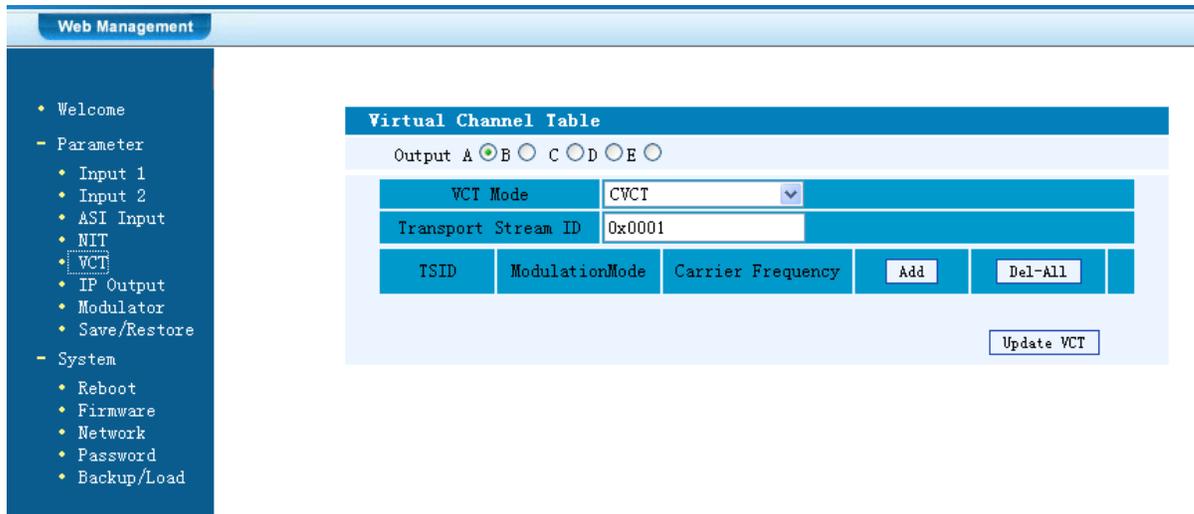


Figure-5

Output A  B  C  D  E  Select the carrier output channel for the inserted VCT.

 Click “Add” from this page, it will display the screen as Figure-9 where it requires to add Channel TSID and configure other parameters for the programs.

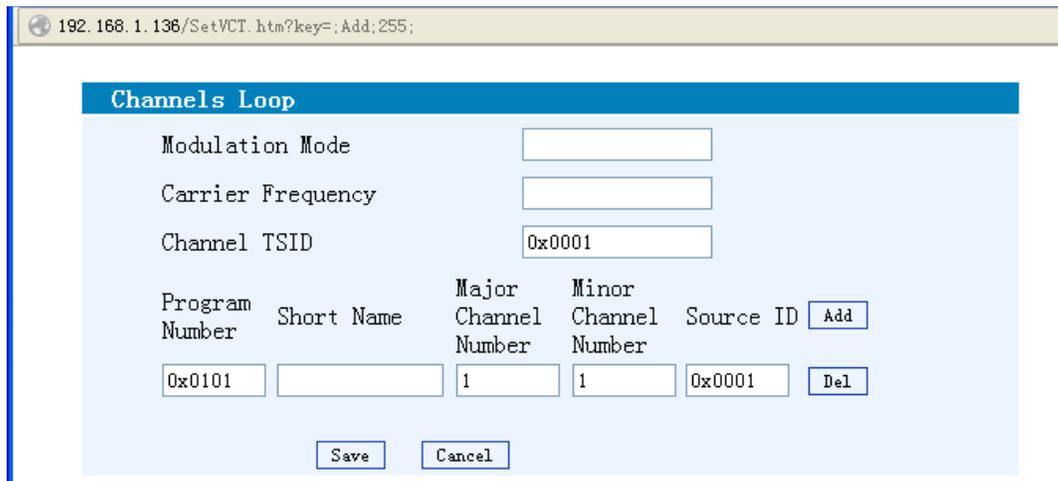


Figure-6

**Add** : Click “Add” to add boxes where to configure parameters in its respective fields. After setting all the data, users need to click “Save” **Save** to save the setting.

## IP Output

Click “IP Output” from the left menu, it will display the screen as Figure-7 where to configure the 4 IP SPTS output and 1IP MPTS output.

After setting the parameters, click “Apply” to save the setting.

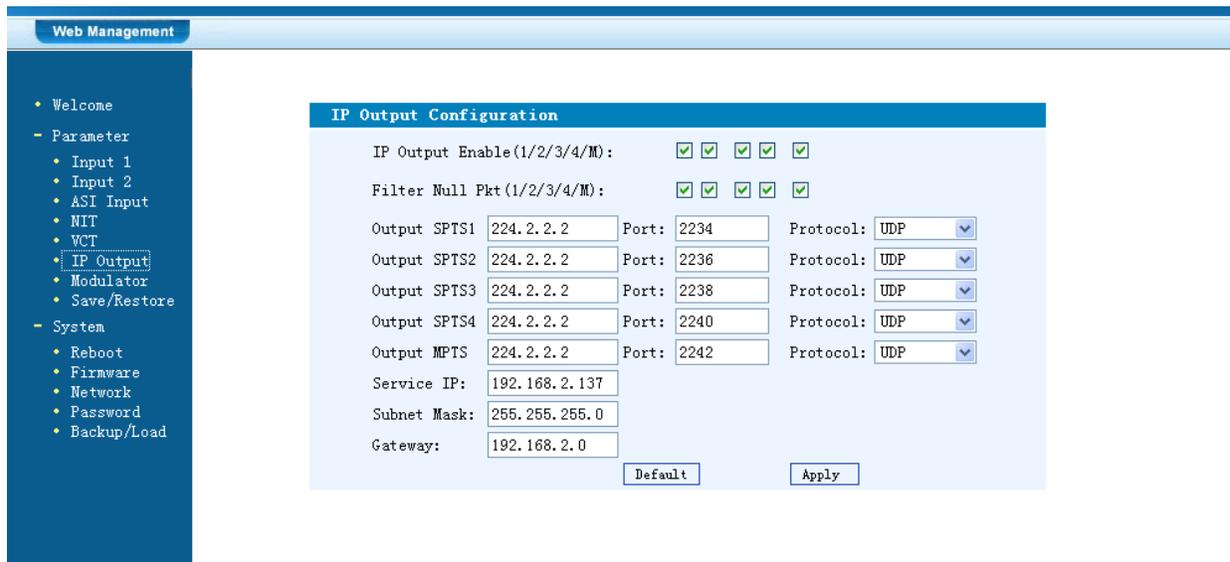


Figure-7

## Modulator Setting

This unit is equipped with 4 adjacent frequency output. User can configure 4 carrier outputs here.

**NOTE:** Different modulate standard has different bandwidth. (see specifications in Chapter 1).

After setting all the parameters, user needs to click on “Apply” to save the Modulator parameters.

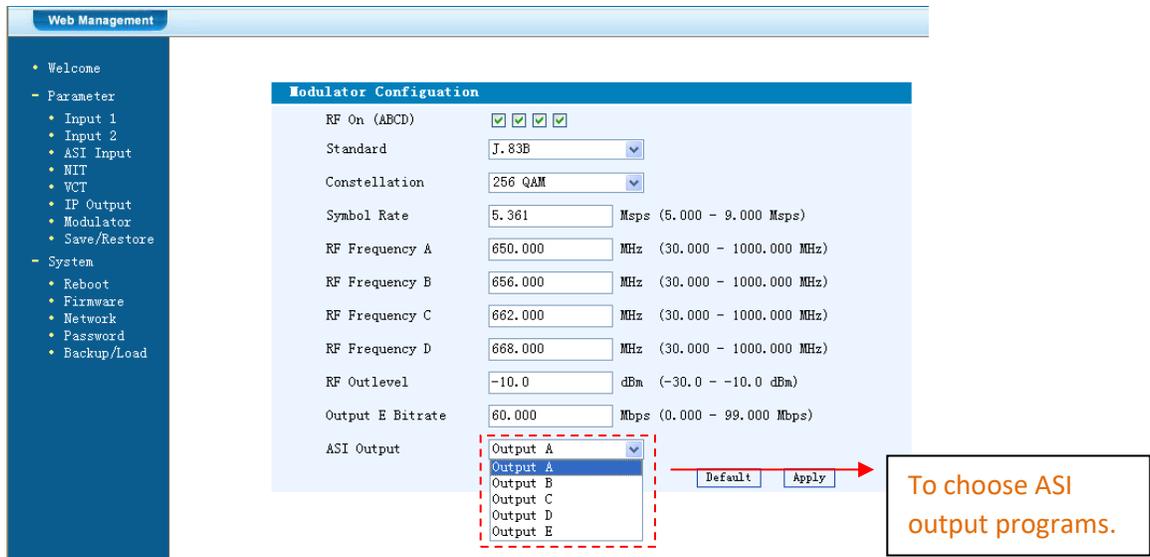


Figure-8

### Save/Restore

Clicking “Save/Restore” from the menu, it will display the screen as Figure-9 where can save the configuration permanently to the device. Click “Save Configuration”, for store the data permanently to the device.

By using “Restore Configuration” user can restore the latest saved configuration to the device.

By using “Factory Set” user can import the default factory configuration.

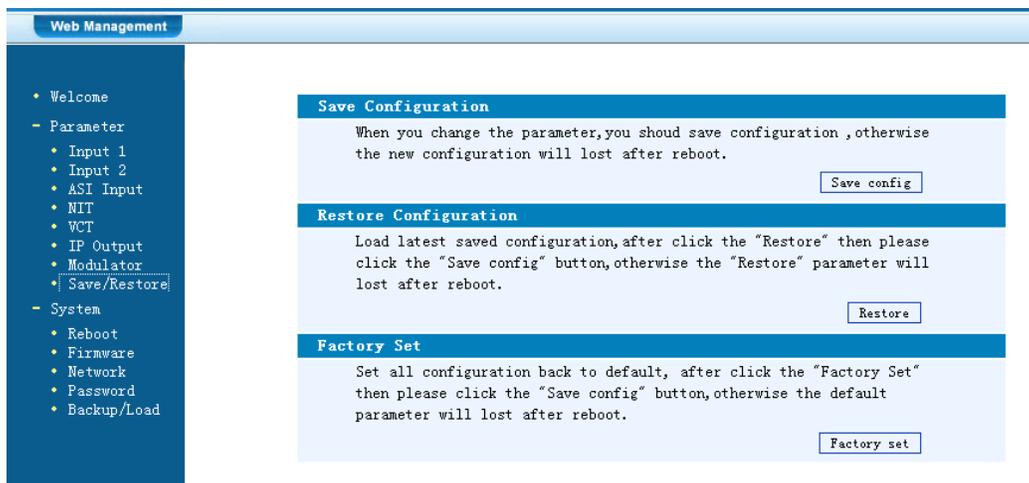


Figure-9

### Restart the Device

Click “Reboot” from the menu, the screen will display as Figure-10. Here when clicking “Reboot” box, it will restart the device automatically.

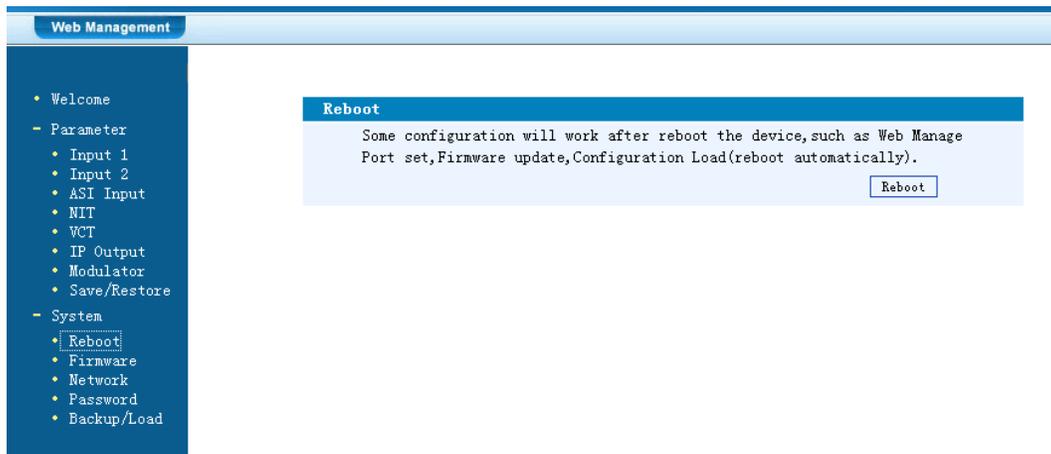


Figure-10

### Update the Device

Click “Firmware” from the menu it will display the screen as Figure-11. Here user can update the device by using the update file.

Click “Browse” to find the path of the device update file for this device then click “Update” to update the device.

After updating the device, user needs to restart the device by using Reboot option.

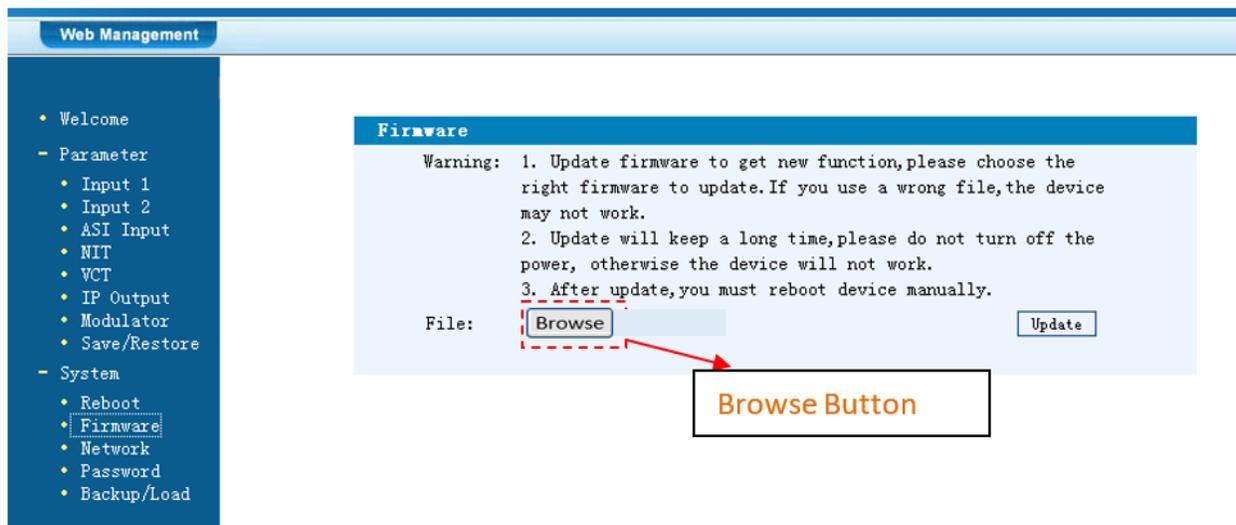


Figure-11

## Network

When user clicks “Network”, it will display the screen as Figure-12. It displays the network information of the device. Here user can change the device network configuration as needed.

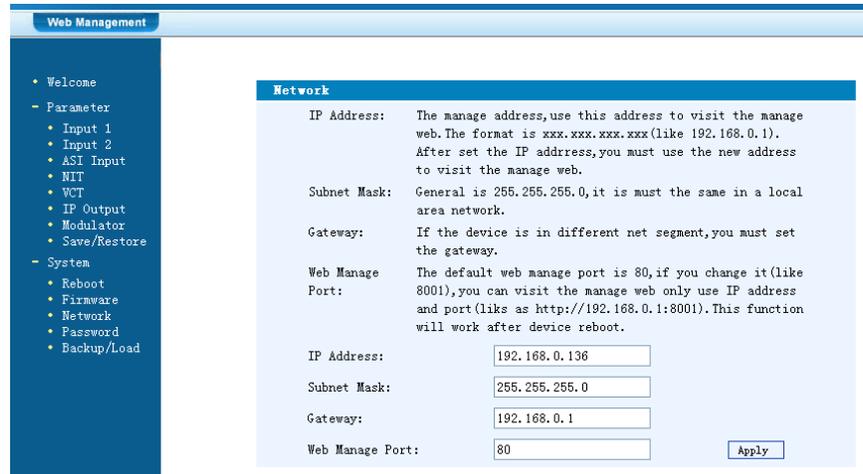


Figure-12

## Change Password

When user clicks “Password”, it will display the password screen as Figure-13. Here user can change the Username and Password for login to the device.

After putting the current and new Username and Password, click Apply” to save the configuration.

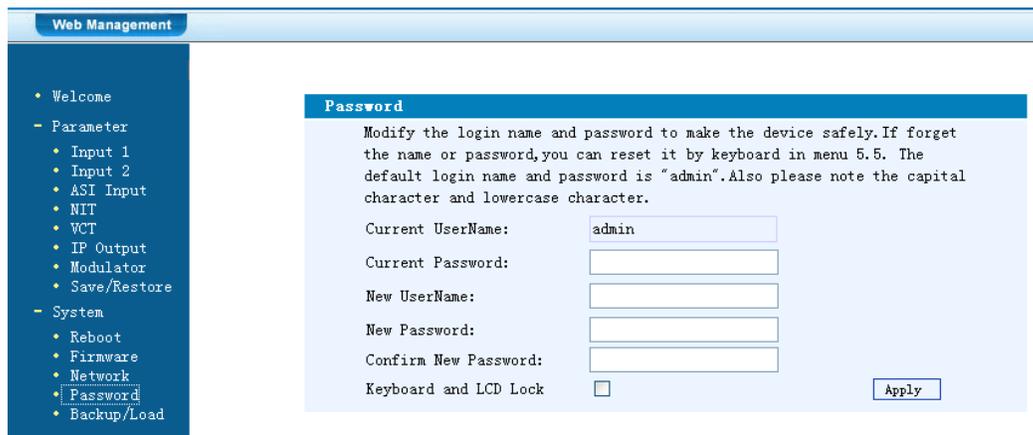


Figure-13

- **Keyboard and LCD Lock**  Keyboard and LCD Lock: If it is marked with “√”, the LCD and keyboard will be locked to avoid unexpected modification or view of the device information and configurations. User can't operate the keyboard & LCD while only the device IP address can be noted in the LCD window.



### Backup/Load

Click “Backup/Load” from the menu, it will display the screen as Figure-14.

**Backup Configuration** – To back up the device configuration file to a folder

**Load Configuration** – If user needs to load the old configuration to the device, click “Browse” and find the backup configuration file path. After selecting the file, click “Load File” to load the backup file to the device.

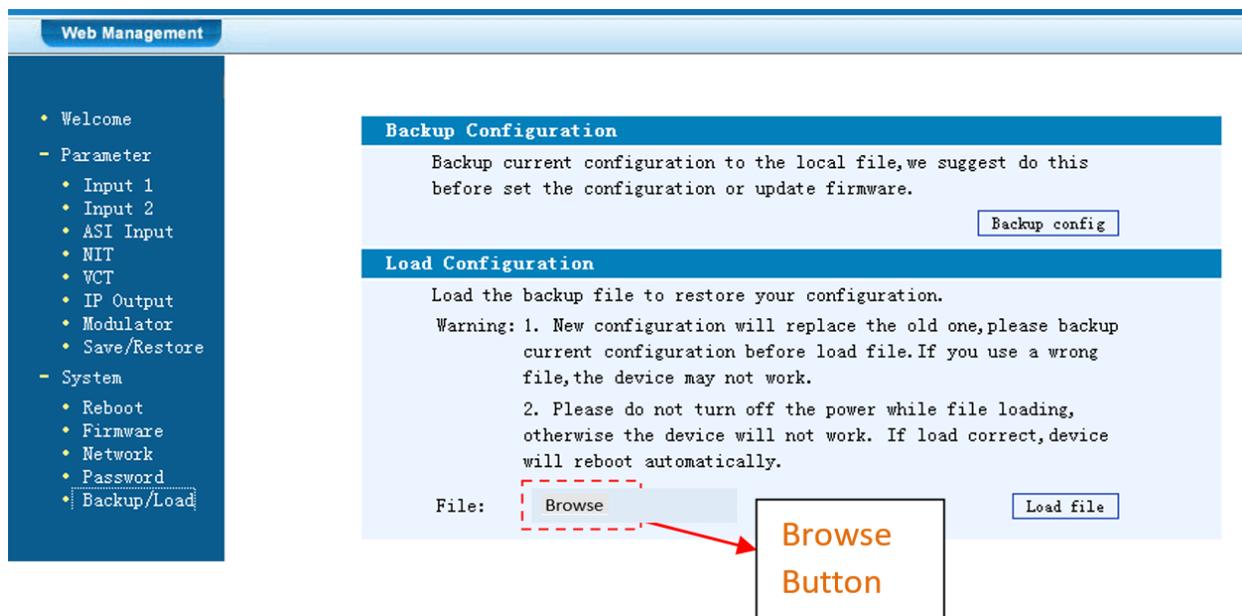


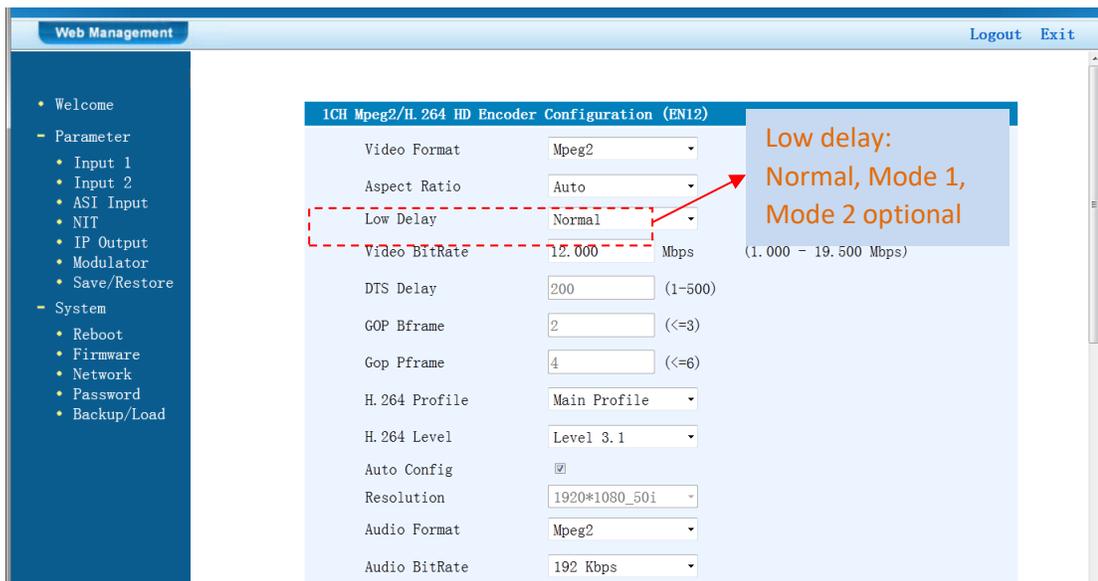
Figure-14

# CHAPTER 5

## LOW DELAY SETTINGS

TL-9542 can achieve a signal low delay from encoding to STB decoding side. User can enable the low delay function in the web-server NMS interface as shown below:

Click 'Input 1' or 'Input 2' to sent a low delay mode for each program:



There are 3 low delay modes:

**Normal:** to disable the low delay function.

**Mode 1/Mode 2:** to activate the low delay function.

The delay duration is based on the different combination of **Video Format, Video Bit-rate, Low delay Mode and the Resolution** of signal source, which combine together to have a comprehensive impact on the delay. Please refer to the below table for reference.

- ❖ **NOTE:** The delay duration will also be impacted as the decoding performance of the STB side change. Users need to apply a well-performed STB or other decoding terminals to achieve a low delay.

## CHAPTER 6

# TROUBLESHOOTING

All TRANSLITE products have passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by TRANSLITE. To prevent potential hazard, please strictly follow the operation conditions.

### Prevention Measure

- Installing the device at the place in which environment temperature between 0 to 45 °C
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

### Conditions to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed

## CHAPTER 7

# PACKING LIST

TL-9542 Encoder Modulator
User's Manual
ASI Cables
Power Cord

### For Sales

North America:  
[sales@transliteglobal.com](mailto:sales@transliteglobal.com)

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Rest Of The World:  
[sales@transliteglobal.com](mailto:sales@transliteglobal.com)

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[support@transliteglobal.com](mailto:support@transliteglobal.com)