



## NDS357X IRD User's Manual



*Web-NMS Version: 1.05*

*Software: 2.00*

*Hardware: 0.20*

**Chengdu Dexin Digital Technology Co., Ltd.**



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# About This Manual

## Intended Audience

This user manual has been written to help people who have to use, to integrate and to install the product. Some chapters require some prerequisite knowledge in electronics and especially in broadcast technologies and standards.

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# Chapter 1 Product Outline

## 1.1 Outline

NDS357X IRD is DEXIN's new design which integrates demodulation, de-scrambler in one case to convert RF signals into TS output after re-mux.

It is a 1-U case which supports 4 tuner inputs. The 4 CAMs/CIs accompanied can decrypt programs input from encrypted RF, ASI and IP. The CAM requires NO unsightly external power cords, cables, or additional remote control device.

BISS function is also embedded to descramble programs from any input.

Its pluggable structure design greatly facilitates the change of Tuner modules as needed.

To meet customers' various requirements, NDS357X is also equipped with 1 ASI and 1 IP input for re-mux, and output with 2 ASI ports and IP port.

## 1.2 Features

- 4 DVB-S/S2 Tuner inputs (DVB-C, T/T2, Optional)
- 1 ASI & 1 IP (UDP) input for re-mux
- One CAM can decrypt multiple programs from Tuners/ASI/IP
- Support BISS descrambling
- IP (1 MPTS & 8 SPTS) over UDP and RTP/RTSP output; ASI out
- Support maximum 128 PID mapping per input
- Pluggable and changeable demodulator modules
- LCD display, Remote control and Firmware, web NMS management
- Updates via web
- Best quality and breakthrough price

## 1.3 Specifications

## Input

4x RF (DVB-C, T/T2, S/S2 optional), F type

1xASI input for re-mux, BNC interface

1xIP input for re-mux (UDP)

## Tuner Section

### DVB-C

Standard J.83A(DVB-C), J.83B, J.83C

Input Frequency 47 MHz~860 MHz

Constellation 16/32/64/128/256 QAM

### DVB-T/T2

Input Frequency 44MHz ~1002 MHz

Bandwidth 6/7/8 M bandwidth

### DVB-S

Input Frequency 950-2150MHz

Symbol rate 2-45Msps

Signal Strength - 65- -25dBm

Constellation 1/2, 2/3, 3/4, 5/6, 7/8 QPSK

### DVB-S2

Input Frequency 950-2150MHz

Symbol rate QPSK 1~45Mbauds;

8PSK 2~30Mbauds

Code rate 1/2, 3/5, 2/3, 3/4, 4/5, 5/6,  
8/9, 9/10

Constellation QPSK, 8PSK

## Output

IP Output 1\*MPTS & 8\*SPTS over UDP,  
RTP/RTSP.  
100Base-T Ethernet interface  
(unicast / multicast)

2xASI BNC interface

## System

Local interface LCD + control buttons

Remote management Web NMS Management

Language English

## General

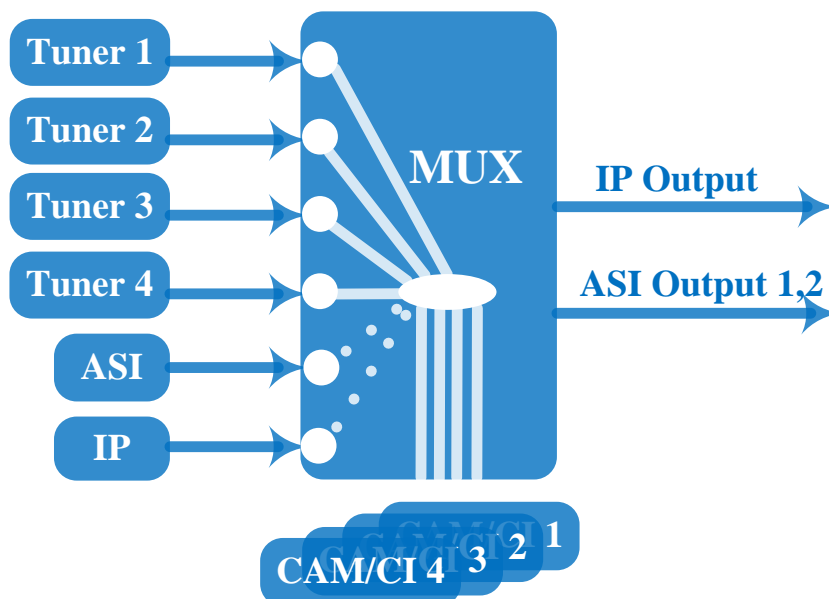
Power supply AC 100V~240V

Dimensions 482\*300\*44.5mm

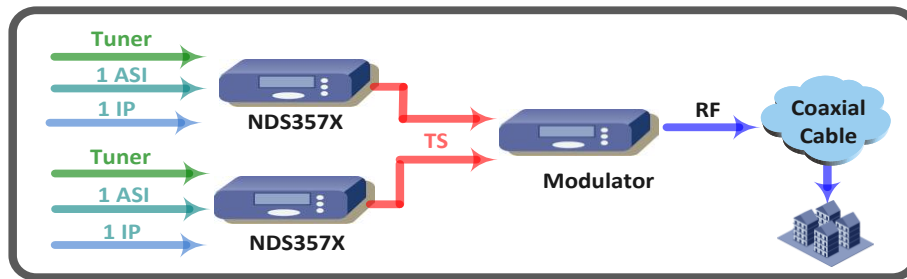
Weight 3 kgs

Operation temperature 0~45°C

## 1.4 Principle Chart

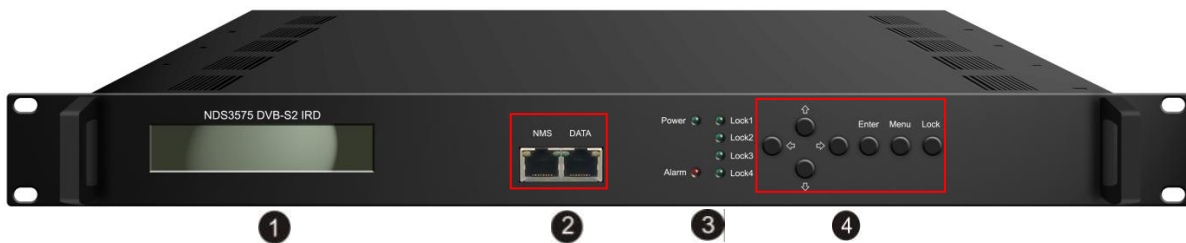


## 1.5 System Connection Sample



## 1.6 Appearance and Description

Front Panel Illustration:



1	LCD Display
2	NMS Port: connect to PC for device management; DATA Port: for IP stream input & output
3	Indicators Area (Lock 1-4: they light up when the tuner signal are properly connected.)
4	Up/Down/Left/Right Buttons
	Enter Key for confirmation
	Menu Key for backward
	Lock Key

Rear Panel Illustration



1	CAM/CI Slots A & B (Applied to descramble tuner 1 & 2, ASI input and IP input)
2	Tuner Input 1 & 2
3	CAM/CI Slots C & D (Applied to descramble tuner 3 & 4, ASI input

---

	and IP input)
4	Tuner Input 3 & 4
5	ASI input port for re-mux
6	ASI mirrored output
7	Power switch/Fuse/Socket
8	Grounding

## Chapter 2 Installation Guide

### 2.1 Acquisition Check

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

- |                                   |       |
|-----------------------------------|-------|
| ● NDS357X IRD                     | 1pcs  |
| ● User's Manual                   | 1pcs  |
| ● Tuner Cables (for loop through) | 2 pcs |
| ● Power Cord                      | 1pcs  |

If any item is missing or mismatching with the list above, please contact our company.

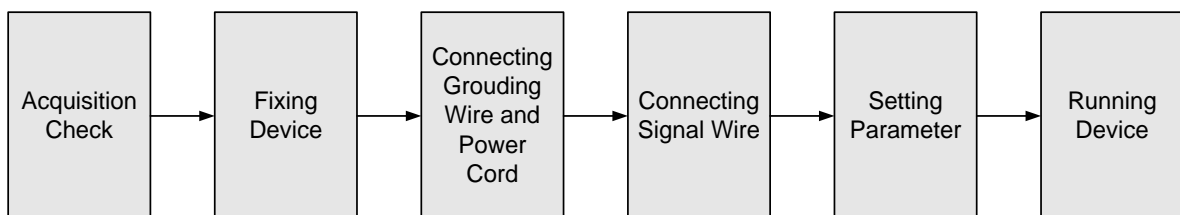
### 2.2 Installation Preparation

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 modulator
- Connecting signal cables
- Connecting communication port (if it is necessary)

#### 2.2.1 Device's Installation Flow Chart Illustrated as following:



#### 2.2.2 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: 1M (Floor bearing should be greater than $450 \text{Kg/m}^2$ )
Environment Temperature	5~40°C(sustainable ), 0~45°C(short time), installing air-conditioning is recommended
Relative Humidity	20%~80% sustainable 10%~90% short time
Pressure	86~105KPa
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 power 100-240V 50-60Hz. Please carefully check before running.

### 2.2.3 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 cables 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>.

#### 2.2.4 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>.

#### 2.2.5 Device Grounding

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

### 2.3 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 beside ,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 1Ω.

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**⚠ Caution:**

**Before connecting power cord to NDS357X IRD, user should set the power switch to "OFF".**

### 2.4 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:

#### 2.4.1 NDS357X IRD Cables Illustration:

- **IP Input/output Cable Illustration:**



- **Tuner Cable Illustration:**



- **ASI Input/output Cable Illustration:**



# Chapter 3 Operation

The front panel of NDS357X IRD is the user-operating interface and the equipment can be conveniently operated and managed according to the procedures displayed on the LCD:

## Keyboard Function Description:

**LEFT/RIGHT:** Choose and set the parameters.

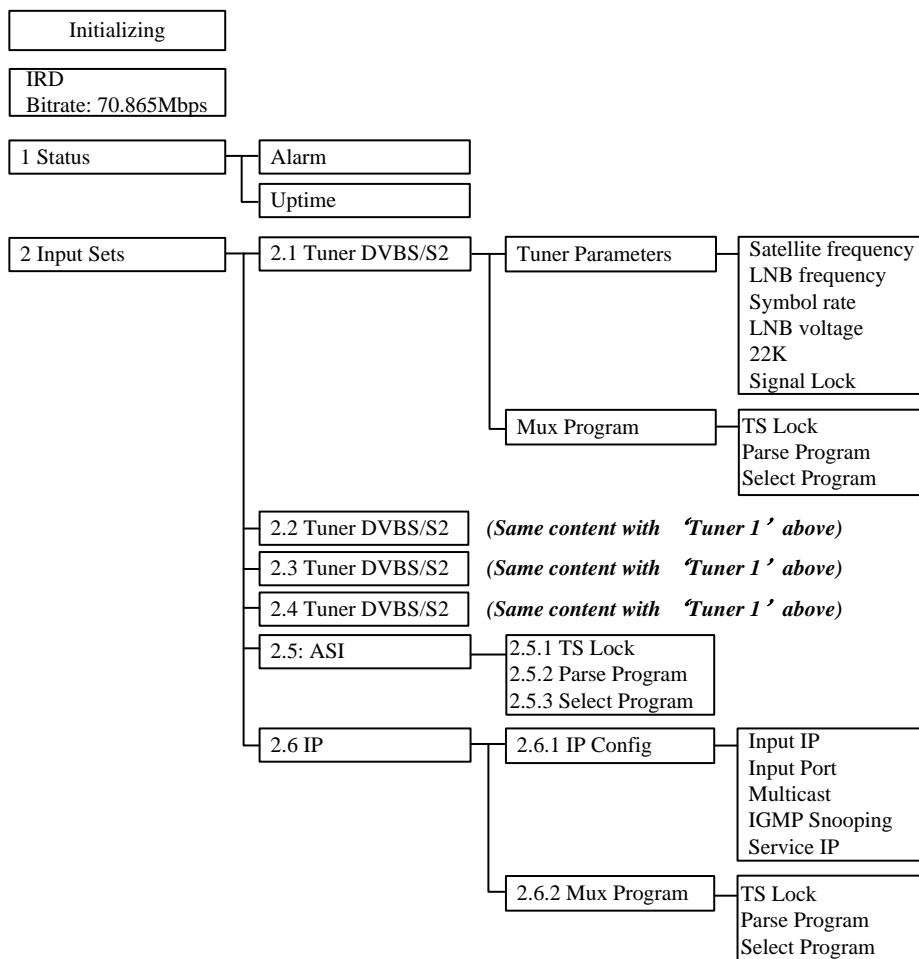
**UP/DOWN:** Modify activated parameter or paging up/down when parameter is inactivated.

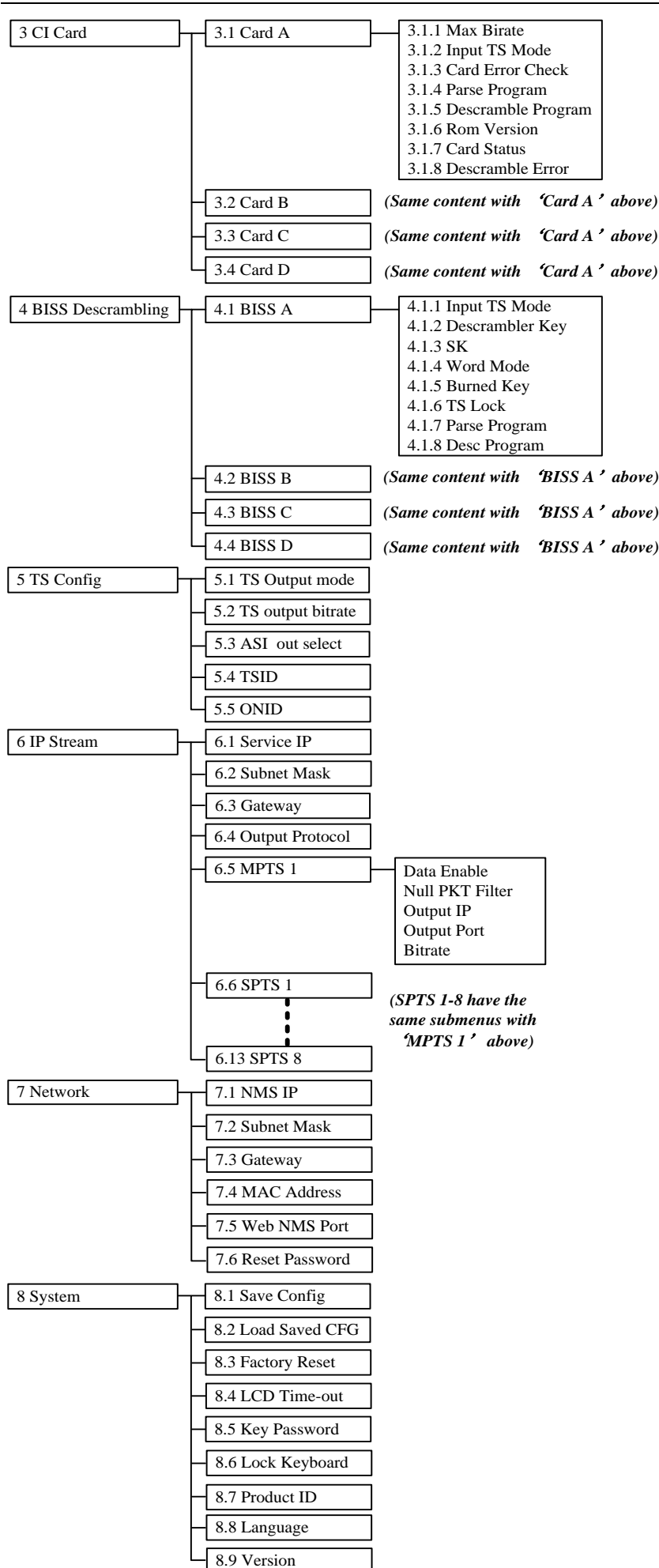
**ENTER:** Activate the parameters which need modifications, or confirm the change after modification.

**MENU:** Cancel current entered value, resume previous setting; Return to previous menu.

**LOCK:** Lock the screen/cancel the lock state. After pressing the lock key, the LCD will display the current configuring state.

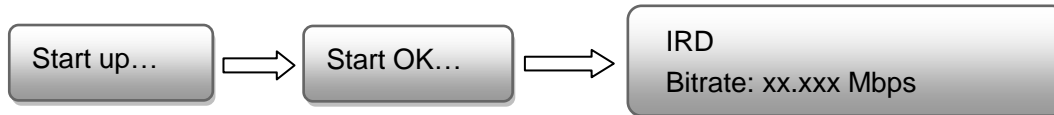
## 3.1 LCD Menu Structure





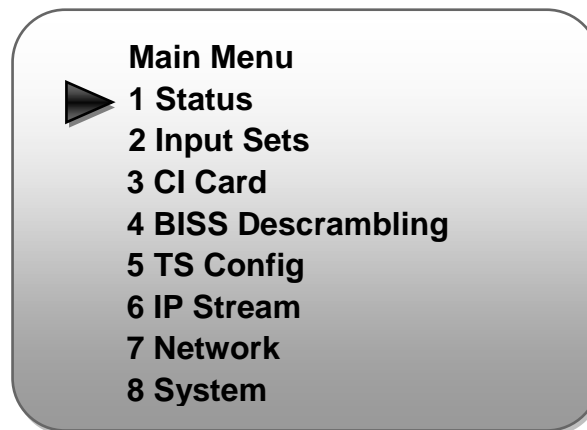
## 3.2 General Setting

Switch on the device and after a few seconds' initialization, it presents start-up pictures as below:



- **IRD:** Device's name
- **Bitrate: xx.xxx Mbps** indicates the current output bitrate.

Press LOCK key on the front panel to enter the main menu. The LCD will display the following pages where user can configure the parameters for the device:



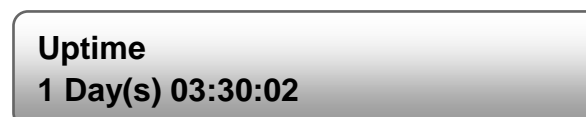
User could do all the settings according to the 8 directions displayed on the LCD. User can press UP/DOWN buttons to specify menu item, and then press ENTER to enter the submenus as below:

### 3.2.1 Status

**Alarm:** The alarm indicator will turn on if there is no signal inputting or outputting bit rate overflows. User then can enter this menu to check the error type. Otherwise it shows the 'system is normal'.



**Uptime:** It displays the working time duration of the device. It times upon power on.



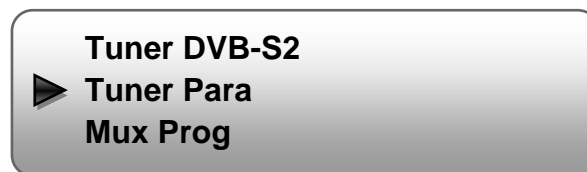
### 3.2.2 Input Sets

NDS357X supports 4 tuners input, 1 ASI input and 1 IP stream input. Users can enter 'Input Sets' to configure the tuner/ASI/IP parameters to receive the transport streams and select programs to mux out via IP packages. It displays as below. (Taking DVB-S/S2 as example)



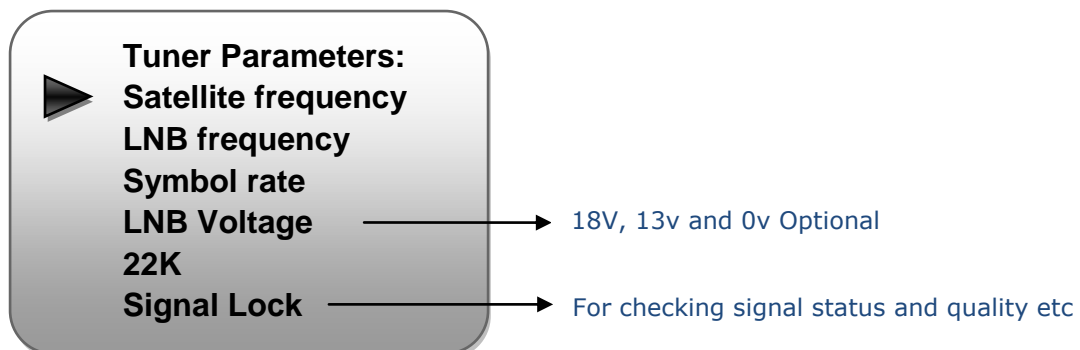
#### ➤ Tuner DVB-S/S2 (Submenus 2.1 – 2.4)

Press ENTER key to enter '2.1 Tuner DVBS/S2' (or 2.2/2.3/2.4) to configure the corresponding tuner input according to rear panel. It displays as below:



Tuner Parameters:

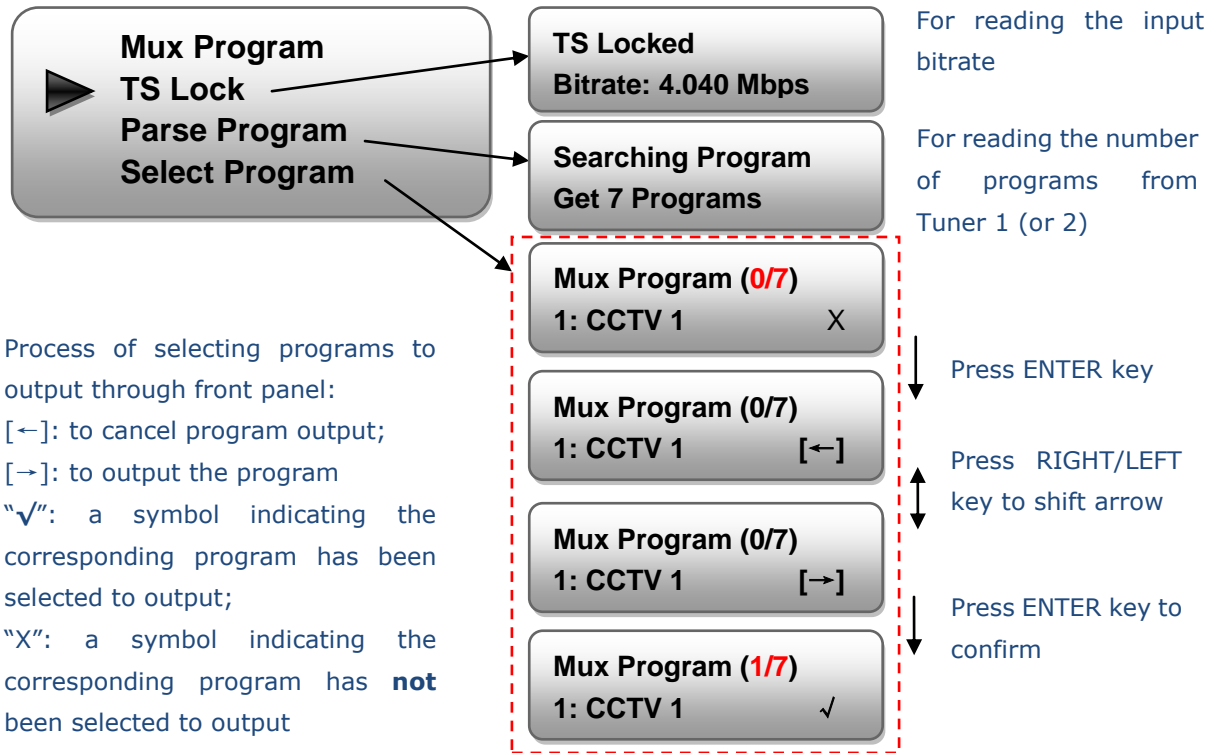
Users can enter this menu to configure the tuner parameters separately to receive the tuner programs.



Mux Program:

Users can parse the Tuner input program list and select programs to mux out in this menu.

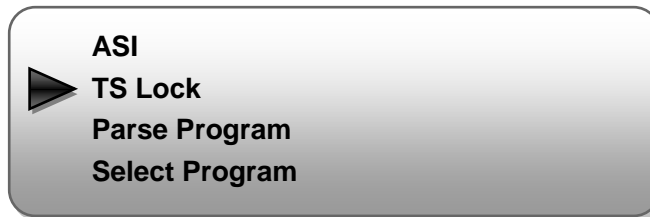
**NOTE:** Multiplexed programs can only be output through IP (MPTS).



'1/7' represents there are all 7 programs in the list and 1 program has been selected to mux out through ASI.

➤ **ASI (Submenus 2.5)**

Users can parse ASI input programs and select program(s) to mux out under this menu. The operating method is same with what explained above.



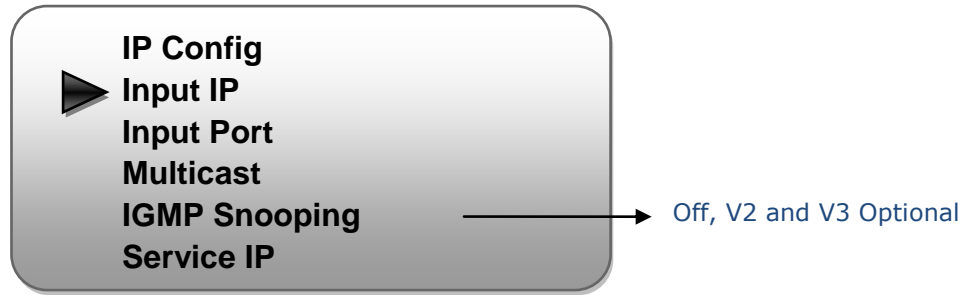
➤ **IP (Submenus 2.6)**

Press ENTER key to enter '2.6 IP', it displays as below:



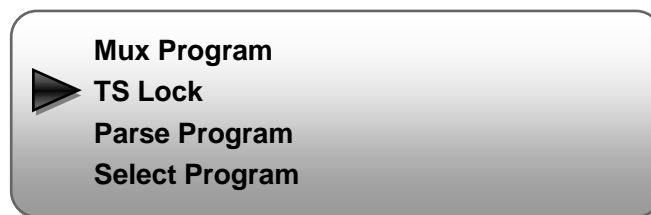
**IP Config:**

Users can enter this menu to configure IP parameters according to the IP source to receive the IP programs.



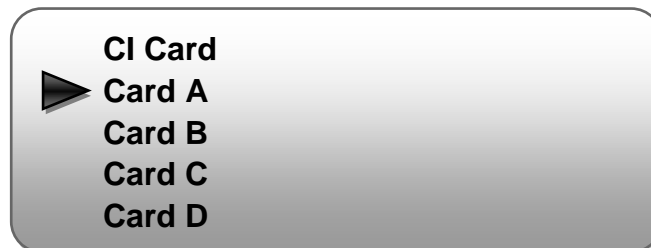
### **Mux Program:**

Users can parse the IP input program list and select programs to mux out in this menu. The operating method is same with what explained above.

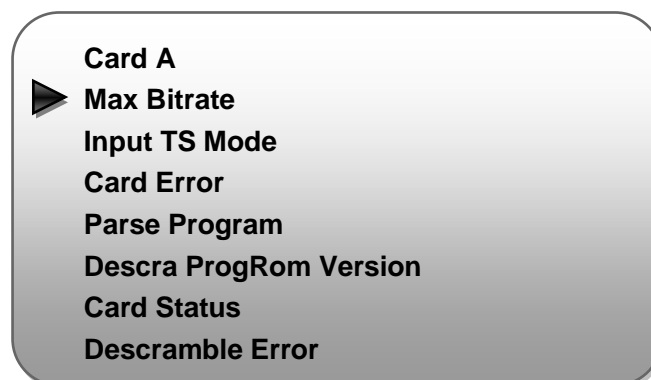


### 3.2.3 CI Card

NDS357X IRD supports 4 CI cards (Card A, B, C and D) to descramble encrypted programs from RF, ASI or IP. Users can press ENTER key to enter '3 CI Card' to configure the 4 cards respectively.



Press ENTER key to enter Card A (or Card B/C/D):



#### ➤ **Max Bit rate**

CI Max Bitrate options range from 48-108Mbps. Move the triangle to select a value as

principle: Actual Input Bitrate ≤ Max Bitrate ≤ CI Max decrypting capacity

**Max Bitrate**  
▶ 48 Mbps

### ➤ Input TS Mode

NDS357X has 6 signal sources: Tuner 1-4, ASI, and IP. One CI card can be applied to descramble one channel input signal from the 6 signal sources. 'Skip CI card' means to skip the card which is used for FTA stream.

**NOTE:** Card A & B are designed to descramble tuner 1 & 2, ASI input and IP input, while card C & D are designed to descramble tuner 3 & 4, ASI input and IP input.

**Input TS Mode (1/5)**  
▶ Skip CI Card  
Tuner 1  
Tuner 2  
ASI  
IP

### ➤ Card Error Check

Users can decide whether to enable or disable the card error check function in this menu.

**Card Error Check**  
▶ Enable

### ➤ Parse Program

Users can read the quantity of programs parsed from the de-scrambled channel.

**Searching Program**  
Get 8 Programs

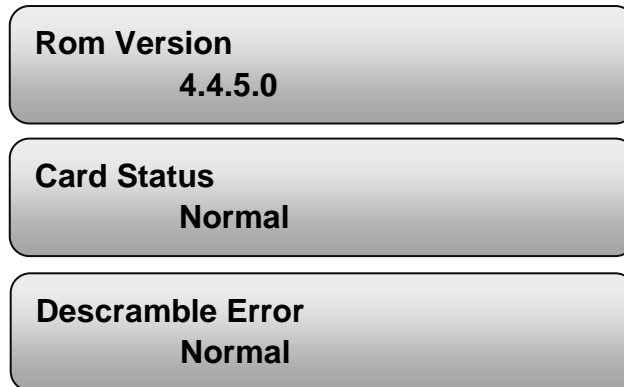
### ➤ Descramble Program

Users can select program(s) from the searched out programs to descramble. The quantity to be descrambled depends on the CAM/CI performance you apply to.

▶ 1 CETV 1      ✓  
2 CCTV 4A    ✗

### ➤ Rom Version/Card Status/Descramble Error

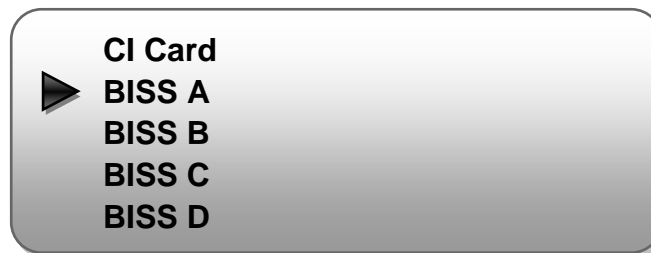
Users can read the other info about the CI card in the following menus.



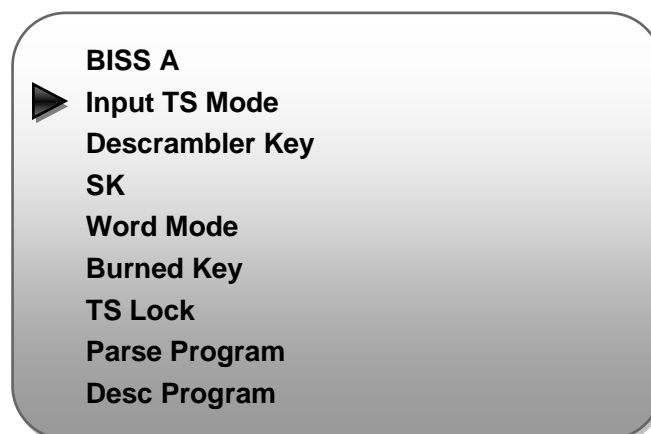
### 3.2.4 BISS Descrambling

NDS357X IRD supports also BISS to descramble encrypted programs from RF, ASI or IP.

Users can enter '4 BISS Descrambling' to configure the 4 BISS respectively.



Press ENTER key to enter BISS A (or BISS B/C/D):



### ➤ Input TS Mode

NDS357X has 6 signal sources: Tuner 1-4, ASI, and IP. One BISS can be applied to descramble one channel input signal from the 6 signal sources. 'Skip BISS' means to skip the card which is used for FTA stream.

**NOTE:** BISS A & B are designed to descramble tuner 1 & 2, ASI input and IP input, while BISS C & D A are designed to descramble tuner 3 & 4, ASI input and IP input.

**Input TS Mode (1/5)**  
 ▶ **Skip BISS**  
 Tuner 1  
 Tuner 2  
 ASI  
 IP

➤ **Descrambler Key/SK/Word Mode/Burned Key**

Users need to input keys to descramble programs as per the BISS scrambling side which usually is DVB-S/S2 modulator.

The descrambling principle is as following chart:

Modulating Side (BISS SCR)	Receiving Side (BISS DESCR)	Digit (0x----)
Mode 1+SW Data	Mode 1+Descrambler Key	12
Mode E+ESW Data + Device	Mode E + Descrambler Key + Burned Key	16
Mode E+ESW Data + Input ID	Mode E + Descrambler Key + SK	14

➤ **TS Lock**

Users can read the real-time bitrate of the corresponding channel.

**TS Locked**  
**Bitrate: 34.662 Mbps**

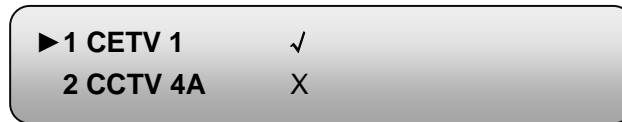
➤ **Parse Program**

Users can read the quantity of programs parsed from the de-scrambled channel.

**Searching Program**  
**Get 7 Programs**

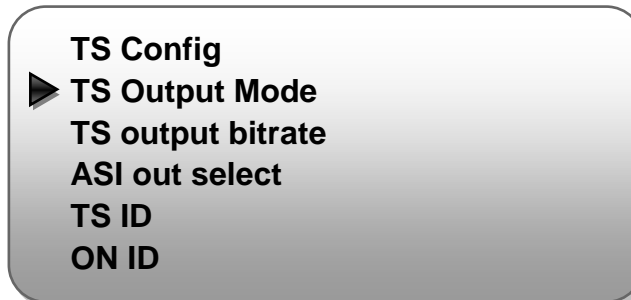
➤ **Descramble Program**

Users can select program(s) from the searched out programs to descramble.



### 3.2.5 TS Config

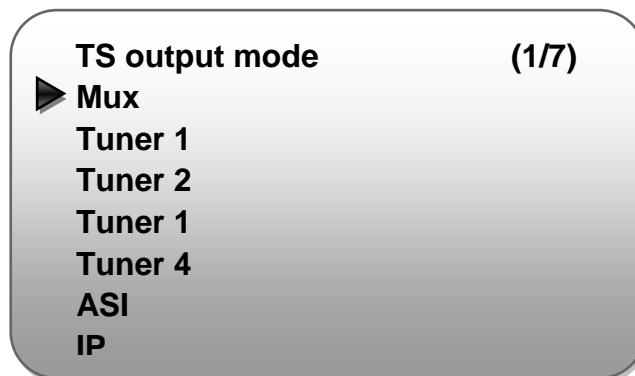
Users can enter '5 TS Config' to configure the parameters of output TS.



**TS Output Mode:** Users can set the MPTS IP output mode.

**Mux:** Under this mode, users can select input programs to multiplex and output.

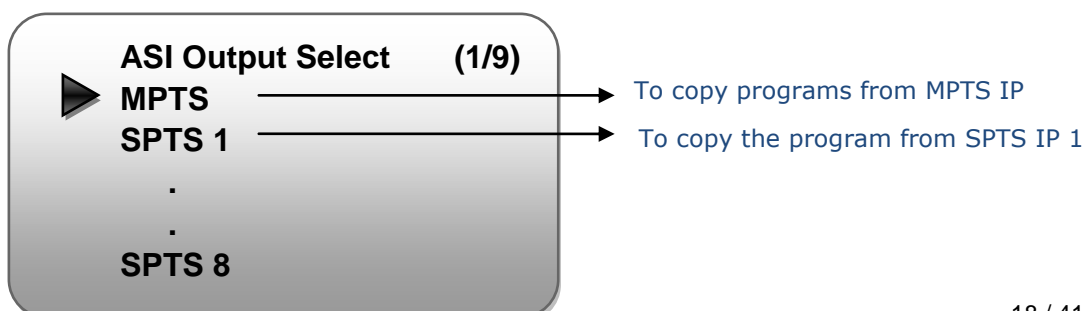
**Tuner1-4/ASI/IP:** to select the corresponding channel to passthrough.



**TS Output bit-rate:** Users can set TS maximum output bit rate manually in this menu.



**ASI out select:** NDS357X is equipped with 1 pair of ASI mirror out ports which can transfer one channel IP stream out copied from the MPTS or 8 SPTS.



**TS ID:** Users can set TS ID in this menu.

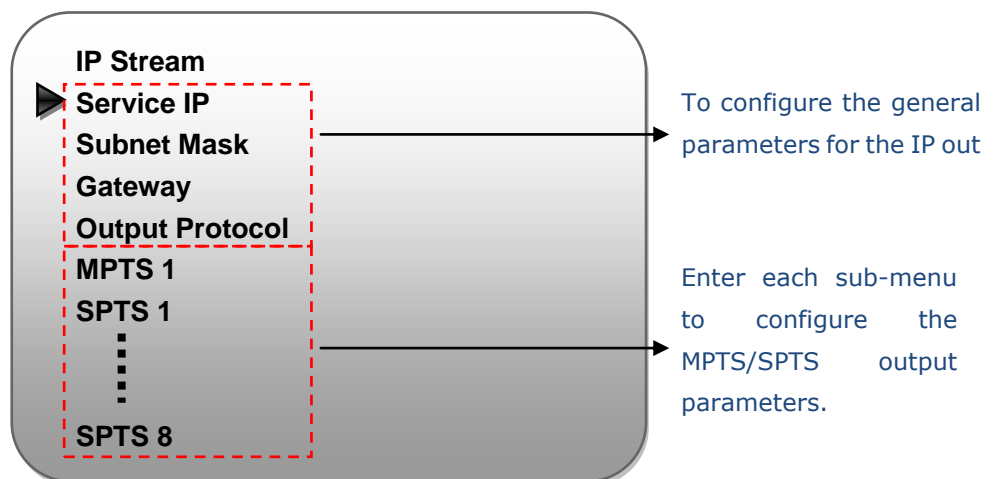


**ON ID:** Users can set ON ID (original network ID) in this menu.



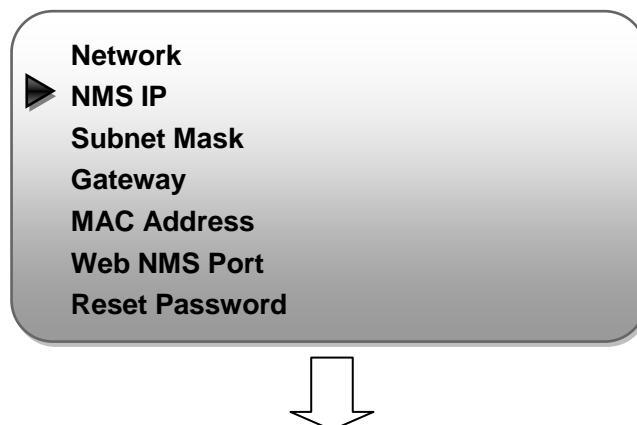
### 3.2.6 IP Stream

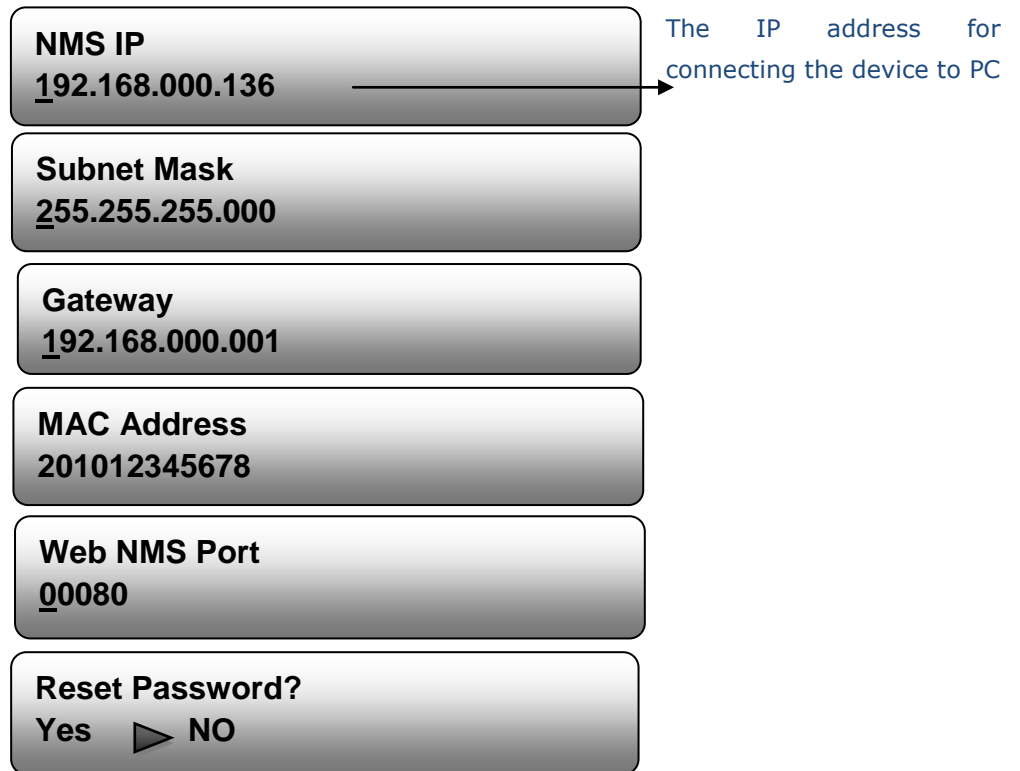
NDS357X IRD supports 1MPTS and 8 SPTS over IP (UDP, RTP/RTSP) output. Users can set the IP out parameters in this menu..



### 3.2.7 Network

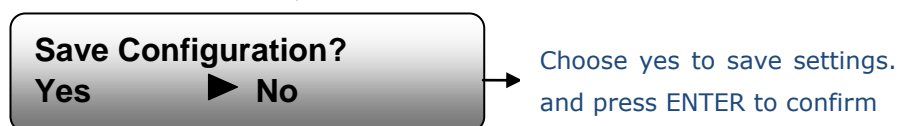
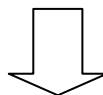
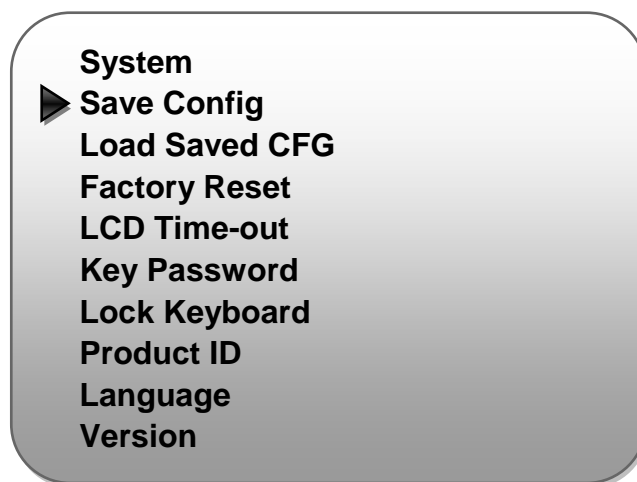
Users can set network parameters in this menu. Enter 'Network' submenus to separately set corresponding parameters.





### 3.2.8 System

Users can set the system parameters in this menu. Enter 'System' submenus to separately set corresponding parameters.



Choose yes to restore the device into the last saved configuration.





## Chapter 4 Web-based NMS Management

In addition to using front buttons to control the device, users can also control and set the configuration with the web Browser in the PC.

### 4.1 login

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

Connect the PC (Personal Computer) 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 1 to 254 except 252 to avoid IP conflict).

Use web browser to connect the device with PC by inputting the device'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.

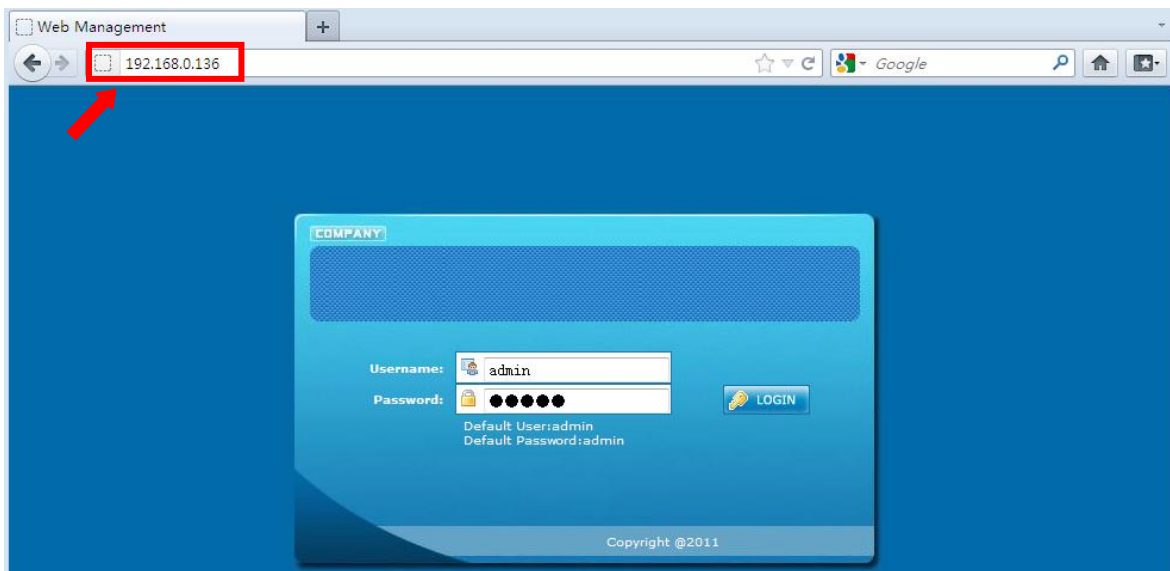


Figure-1

### 4.2 Operation

#### Summary:

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

can have an overview of the device's system information and working status.

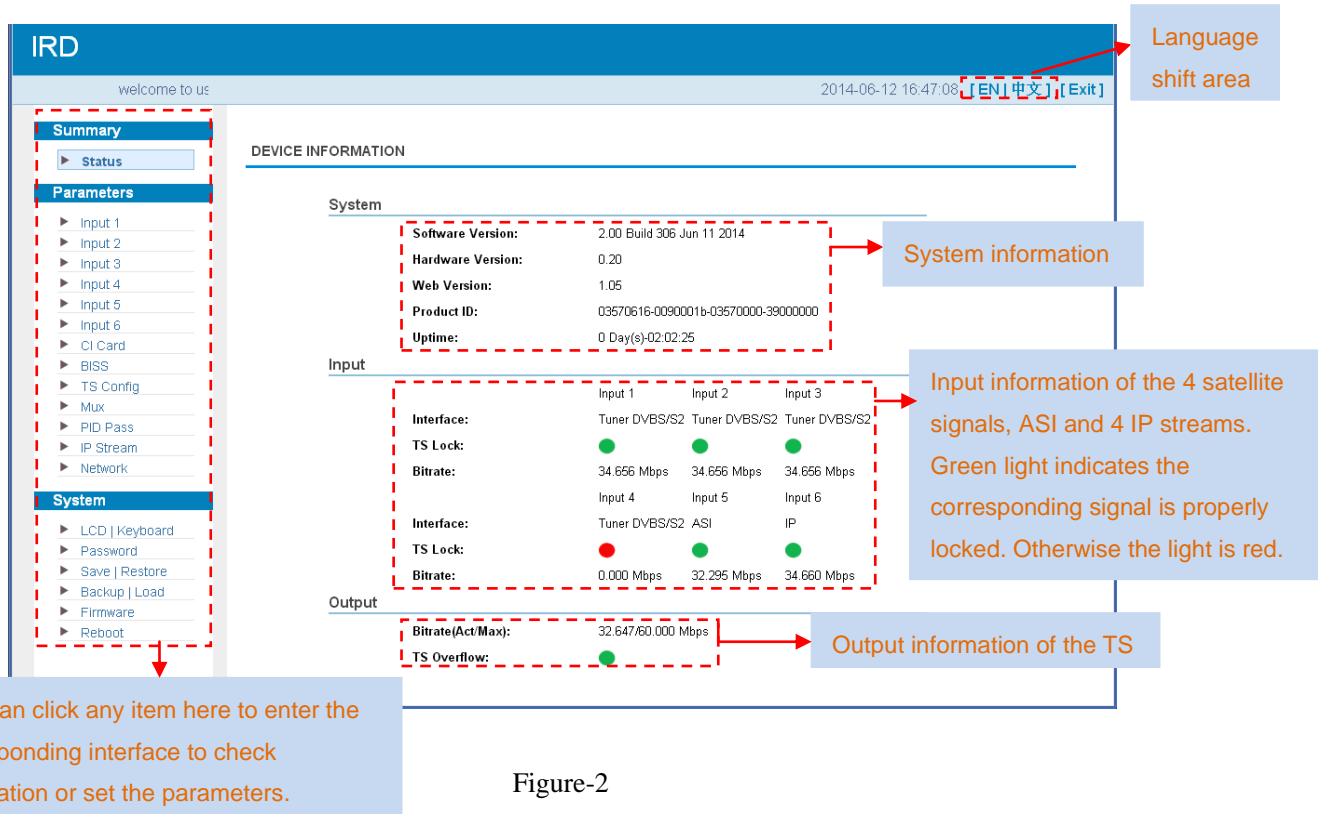


Figure-2

**Parameters → Input 1/2/3/4 (Tuner Input 1-4):**

From the menu on left side of the webpage, clicking “Input 1” (or “Input 2/3/4”), it displays the interface where users can configure the 4 Tuner input parameters separately. (Figure-3)

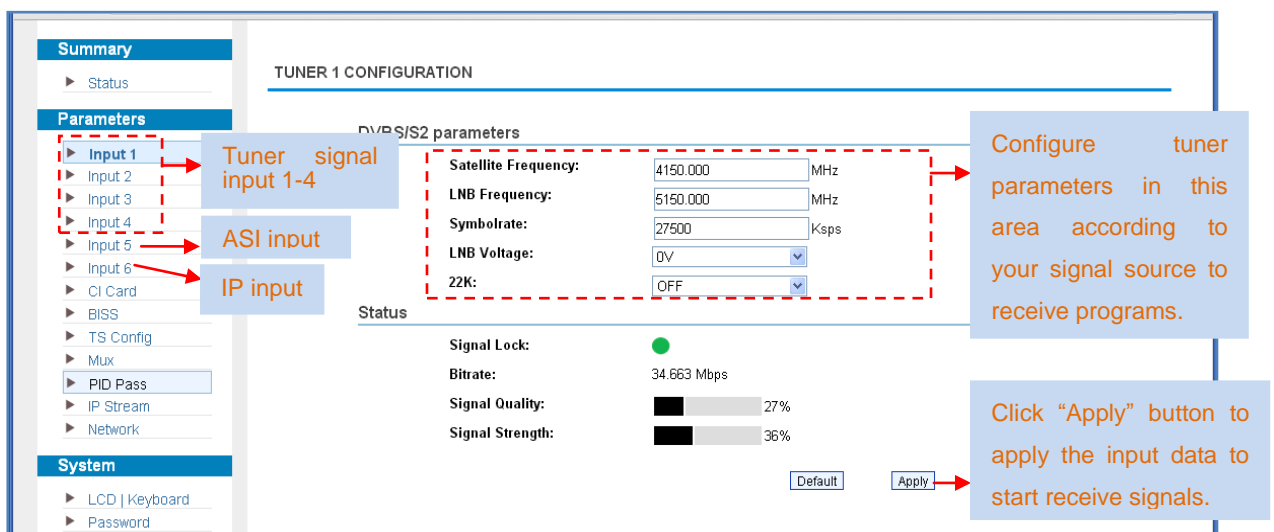


Figure-3

**Parameters → Input 5 (ASI Input):**

“Input 5” refers to the ASI source, this page is not applicable as it does not need to

configure ASI signal. (Figure-4)

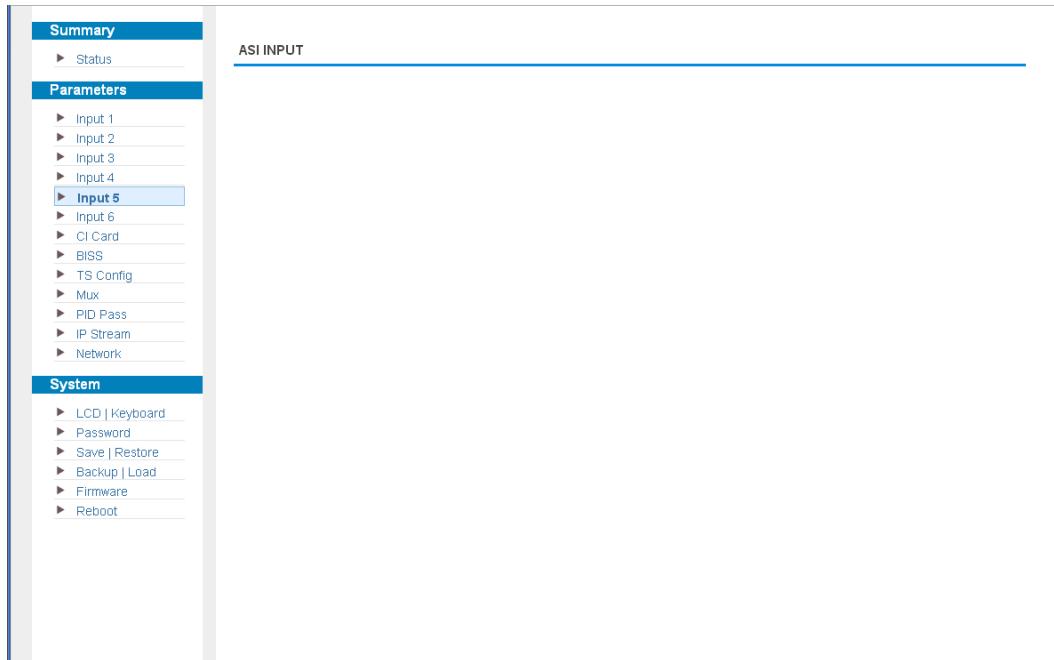


Figure-4

### Parameters → Input 6 (IP Input):

From the menu on left side of the webpage, clicking “Input 6”, it displays the interface where users can configure the IP input parameters. (Figure-5)

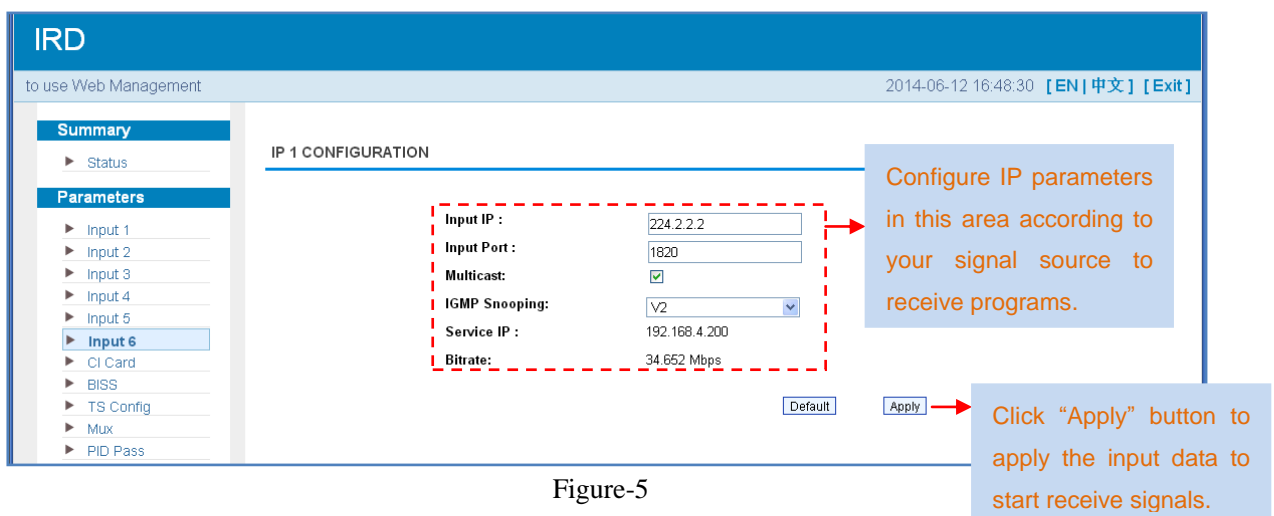


Figure-5

### Parameters → CI Card:

NDS357X supports 4 CI cards (Card A, B, C and D) to descramble programs from encrypted RF, ASI or IP. Users can click and enter ‘CI Card’ to configure the 4 cards respectively and select target programs to decrypt. (Figure-6)

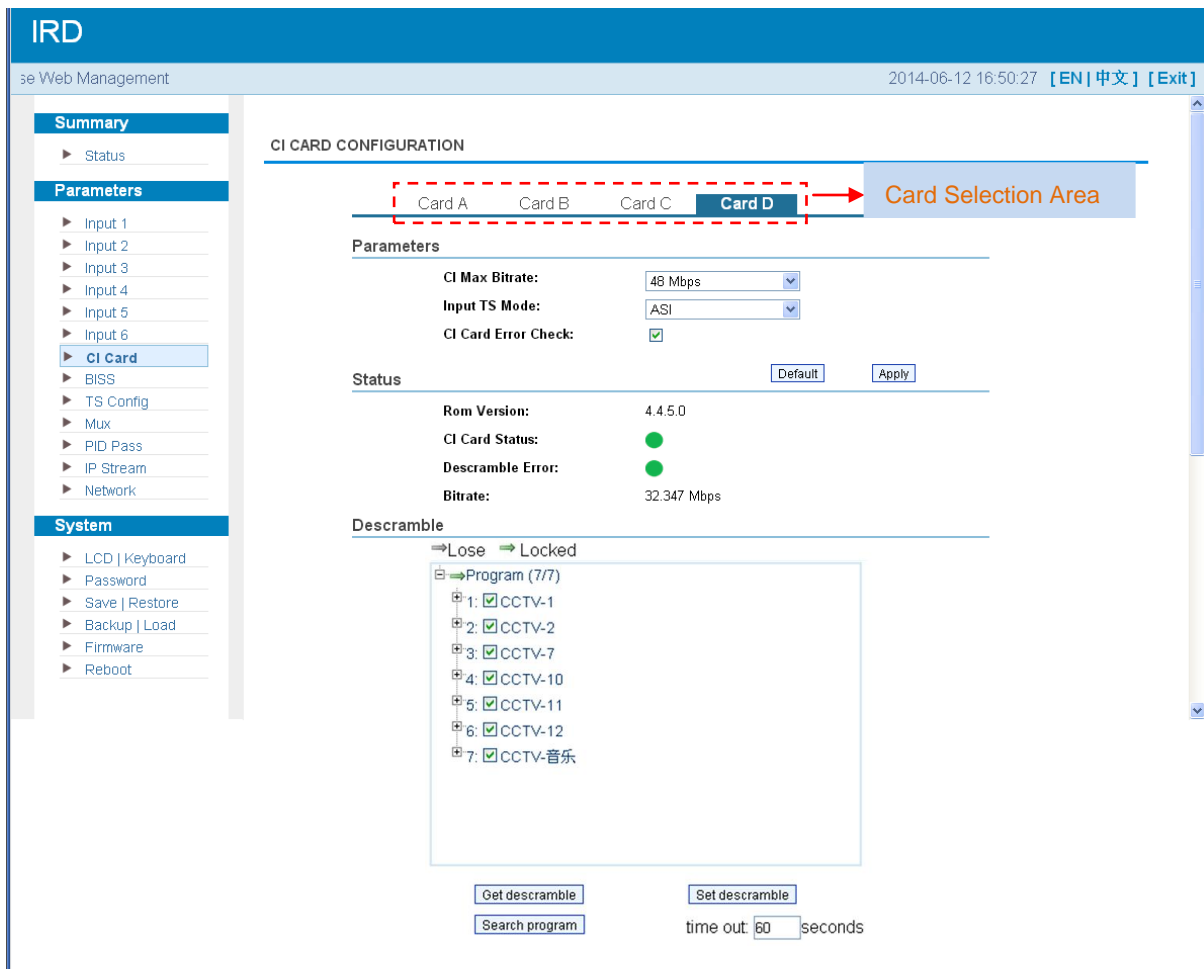
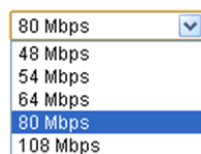


Figure-6

### ➤ CI Max Bit rate

CI Max Bitrate options range from 48-108Mbps. Select a value in the pull-down list as principle: Actual Input Bitrate ≤ Max Bitrate ≤ CI Max decrypting capacity.

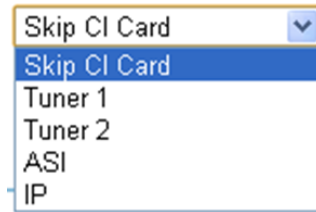


**NOTE!**

### ➤ Input TS Mode

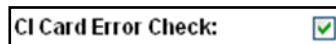
NDS357X has 6 signal sources: Tuner 1-4, ASI, and IP. One CI card can be applied to descramble one channel input signal from the 6 signal sources. 'Skip CI card' means to skip the card which is used for FTA stream.

**NOTE:** Card A & B are designed to descramble tuner 1 & 2, ASI input and IP input, while card C & D are designed to descramble tuner 3 & 4, ASI input and IP input.



➤ **Card Error Check**

Users can decide whether to enable or disable the card error check function by checking the box.



After configuring the above CI card parameters, click **Apply** button to apply the input data and then click **Search program** button to parse programs from the channel selected in 'Input TS Mode'.

The searched out programs will be listed in the 'Descramble' box below: (Figure 7)

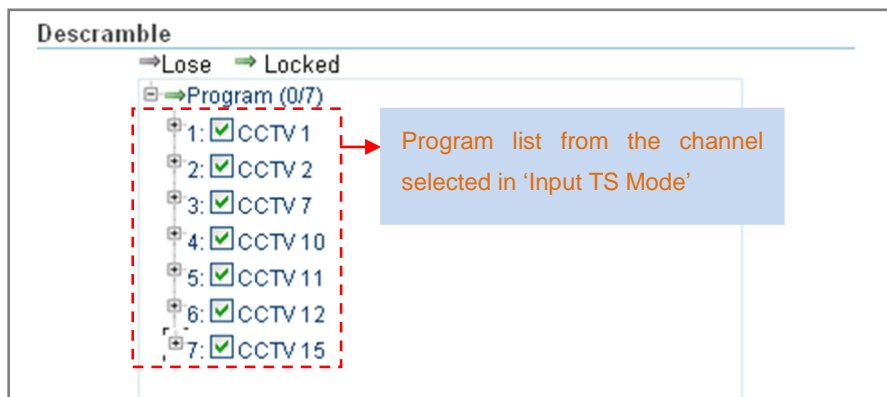
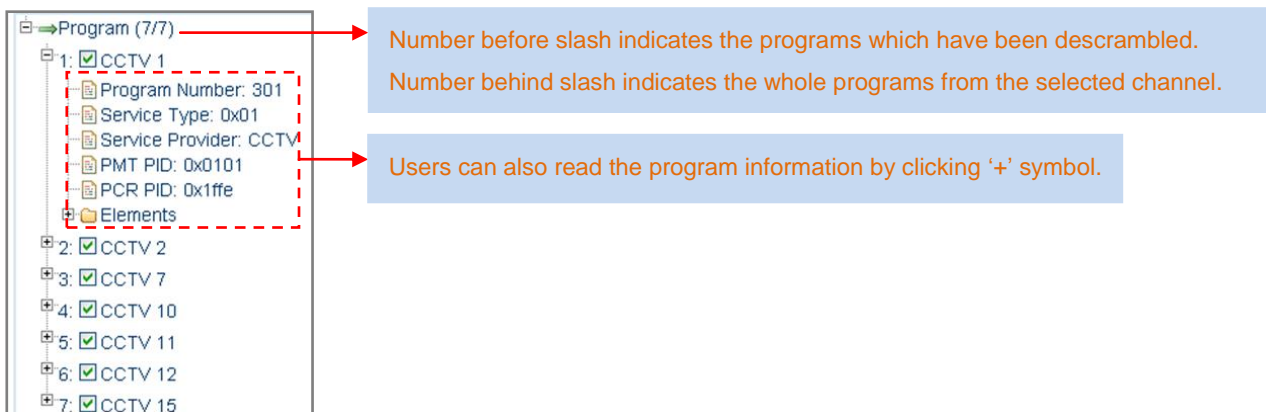


Figure-7

Check the program(s) to be descrambled with “√” and click **Set descramble** button to start descrambling the checked program(s). The program quantity to be descrambled will depend on the CAM/CI performance you apply to.



**Parameters → BISS:**

From the menu on left side of the webpage, clicking “BISS”, it displays the interface where users can configure 4 BISS and descramble the input channels. (Figure-8)

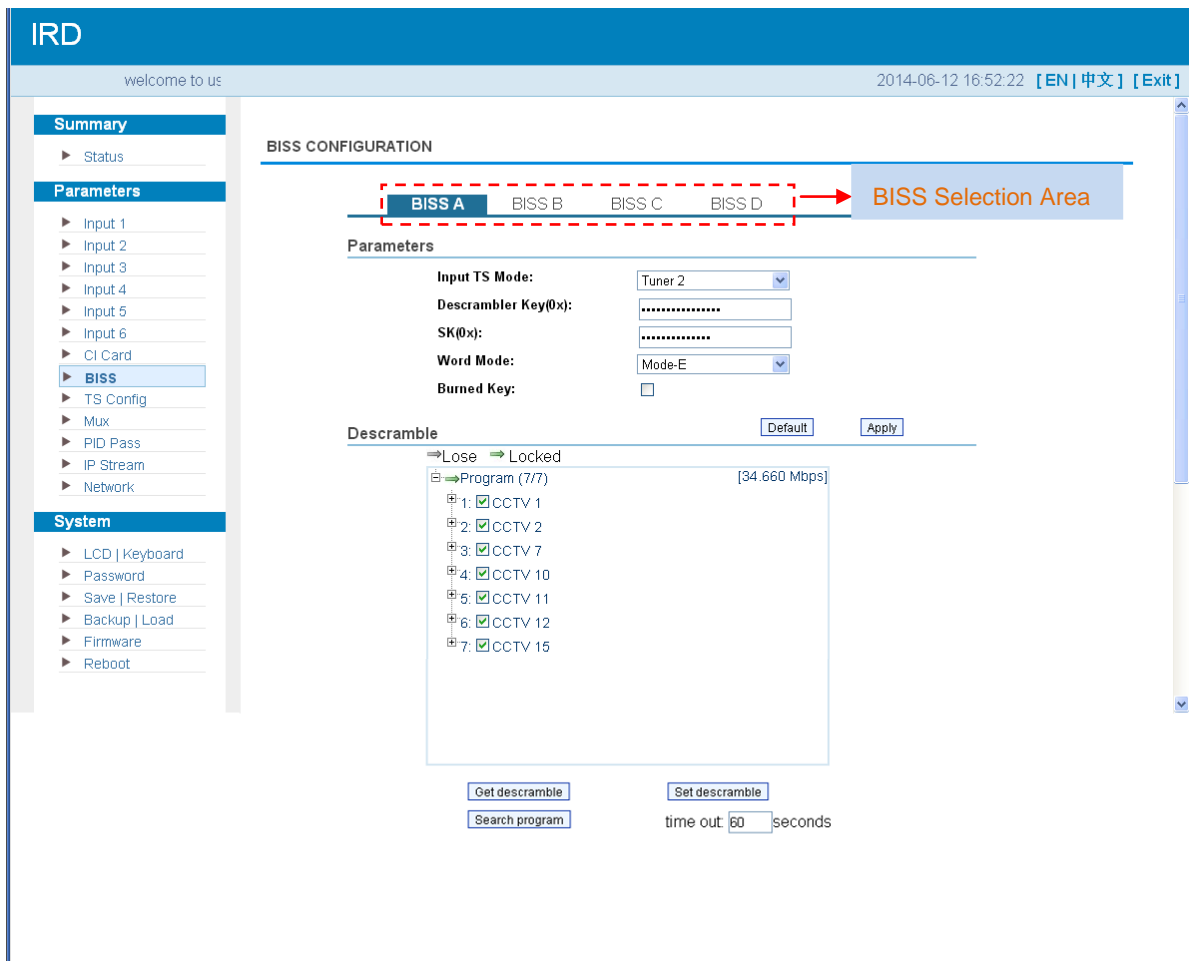
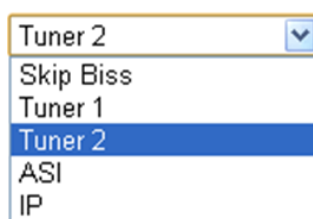


Figure-8

➤ **Input TS Mode**

NDS357X has 6 signal sources: Tuner 1-4, ASI, and IP. One BISS tag can be applied to descramble one channel input signal from the 6 signal sources. ‘Skip BISS’ means not to involve BISS function and it is used for FTA stream.

**NOTE:** BISS A & B are designed to descramble tuner 1 & 2, ASI input and IP input, while BISS C & D A are designed to descramble tuner 3 & 4, ASI input and IP input.



Items showing below are working as per the keys or codes set in the BISS scrambling side

(DVB-S/S2 modulators).

<b>Descrambler Key(0x):</b>	.....
<b>SK(0x):</b>	.....
<b>Word Mode:</b>	Mode-E <input type="button" value="v"/>
<b>Burned Key:</b>	<input type="checkbox"/>

Input corresponding items and data to active the BISS descrambling as principles be

Modulating Side (BISS SCR)	Receiving Side (BISS DESCR)	Digit (0x----)
Mode 1+SW Data	Mode 1+Descrambler Key	12
Mode E+ESW Data + Device	Mode E + Descrambler Key + Burned Key	16
Mode E+ESW Data + Input ID	Mode E + Descrambler Key + SK	14

After configuring the above BISS parameters, click **Apply** button to apply the input data and then click **Search program** button to parse programs from the channel selected in 'Input TS Mode'.

The searched out programs will be listed in the 'Descramble' box below: (Figure 9)

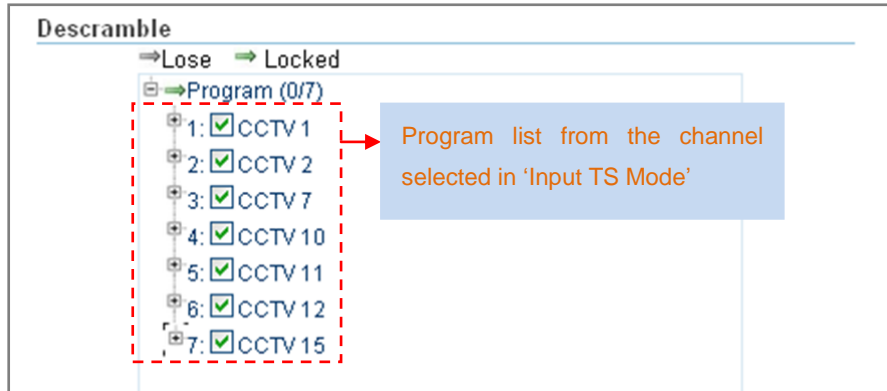
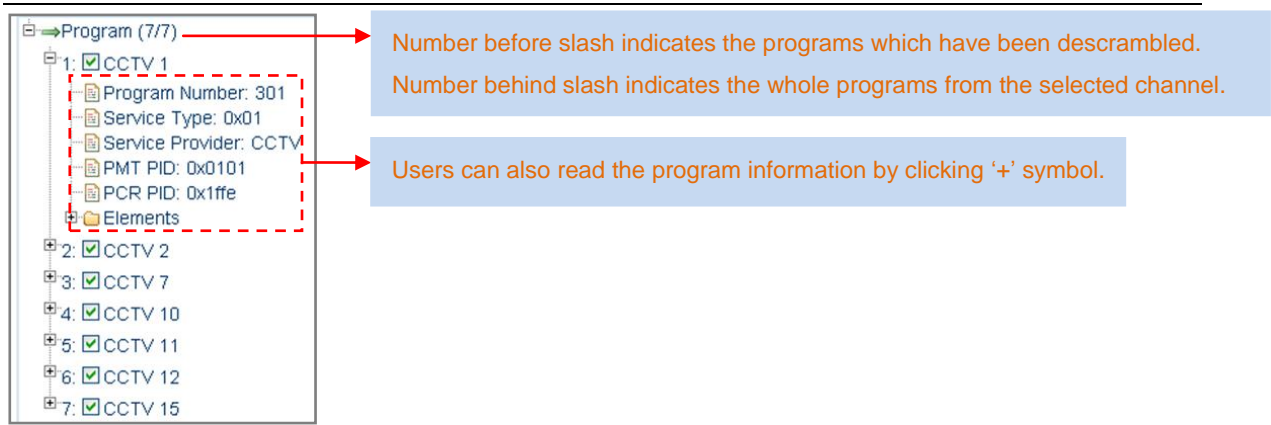


Figure-9

Check the program(s) to be descrambled with “√” and click **Set descramble** button to start descrambling the checked program(s). The program quantity to be descrambled will depend on the CAM/CI performance you apply to.



**Parameters → TS Config:**

From the menu on left side of the webpage, clicking “TS Config”, it displays the interface where users can configure the parameters of TS output through ASI port groups. (Figure-10)

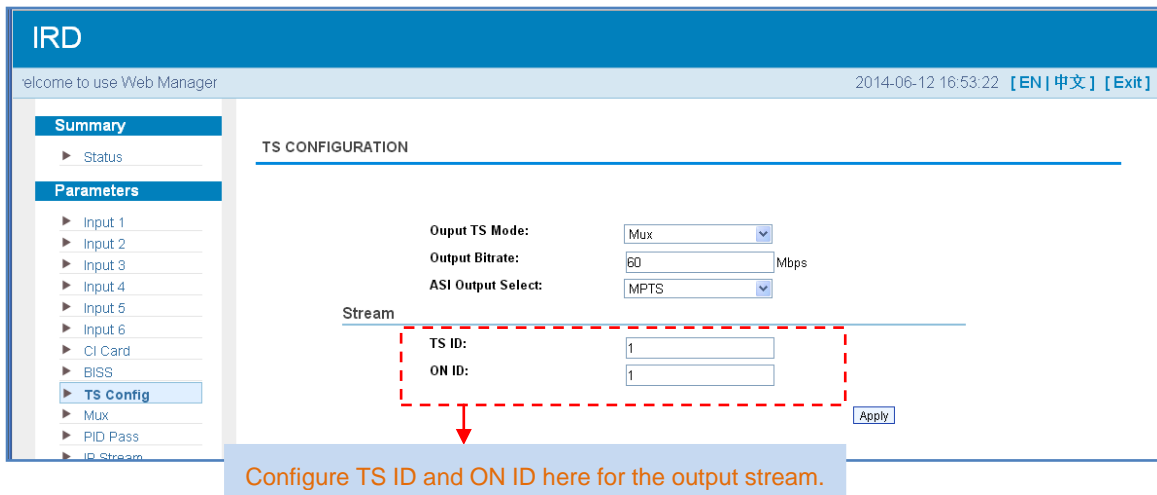
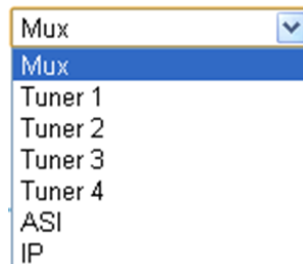


Figure-10

**Output TS Mode:** for setting the MPTS IP output mode.

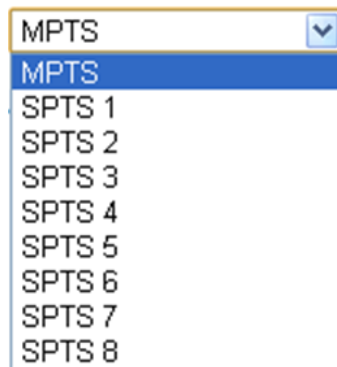
Mux: Under this mode, users can select input programs to multiplex and output at “Mux” tag.

Tuner1-4/ASI/IP: to select the corresponding input channel to passthrough.



**Output bit-rate:** Users can set TS maximum output bit rate for the output channel.

**ASI output select:** NDS357X is equipped with 1 pair of ASI mirror out ports which can transfer one channel IP stream out copied from the MPTS or 8 SPTS.



After finishing the configuration, click **Apply** to confirm.

**Parameters → Mux:**

From the menu on left side of the webpage, clicking “Mux”, it displays the interface where users can configure the programs to be multiplexed. (Figure-11)

**NOTE:** Multiplexing will work when the “output TS mode” is set as “Mux” mode in “TS Config” tag above.

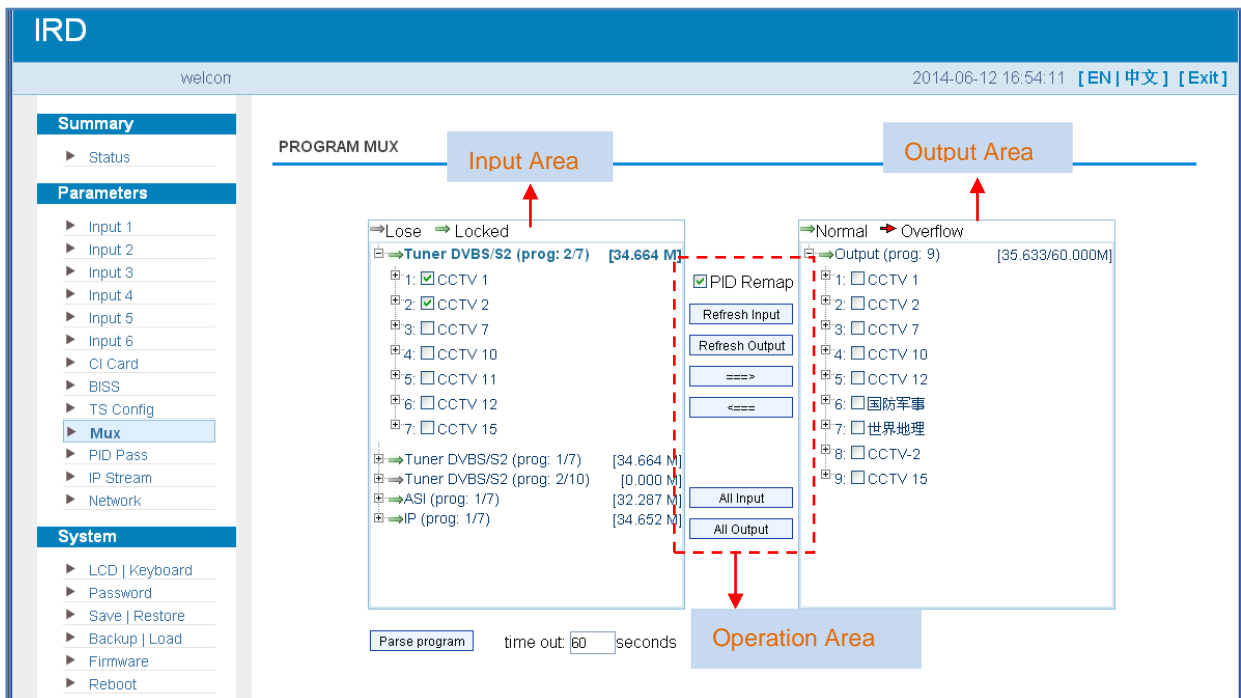


Figure-11

Configure ‘Input Area’ and ‘Output Area’ with buttons in ‘Operation Area’. Instructions are as below:

**PID Remap:** To enable/disable the PID remapping

To refresh the input program information

To refresh the output program information

Select one input program first and click this button to transfer the selected program to the right box to output.

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

To select all the input programs

To select all the output programs

To parse programs  time limitation of parsing input programs

### ◆ Program Modification:

The multiplexed program information can be modified by clicking the program in the ‘output’ area. For example, when clicking , it triggers a dialog box (Figure 12) where users can input new information.

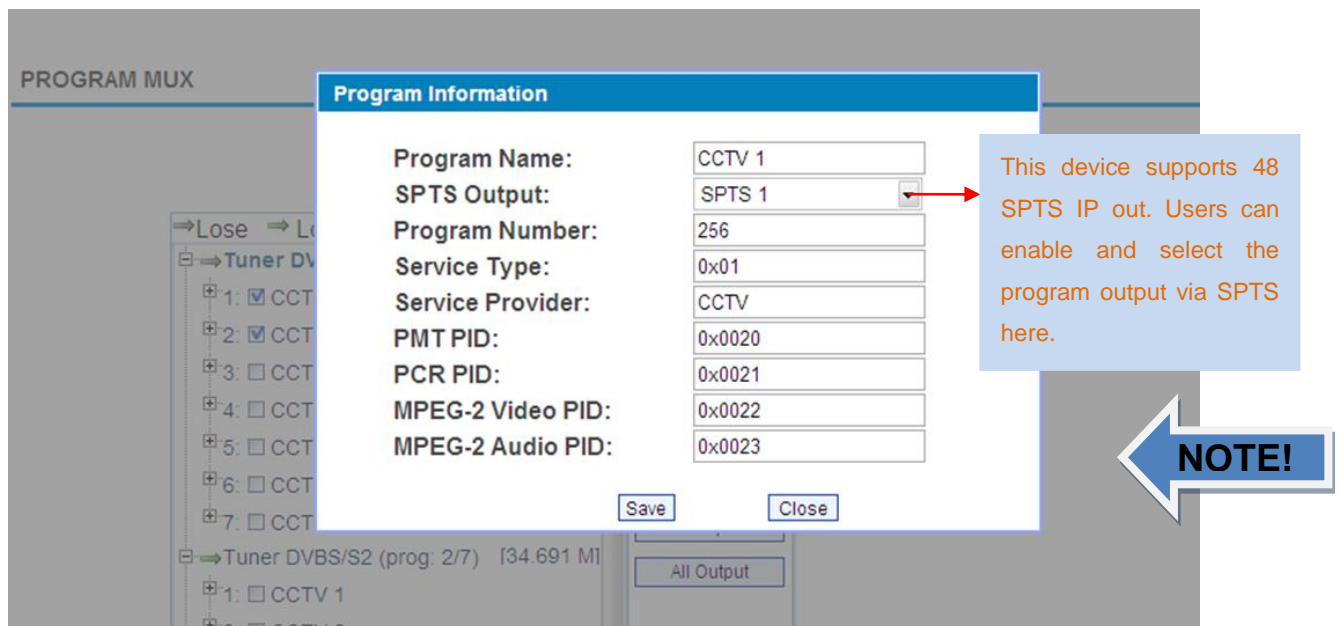


Figure-12

Input new data and click ‘Save’ button at last to confirm the modification.

### Parameters → PID Pass:

Users can add PIDs to be pass in the tag. (Figure-13)

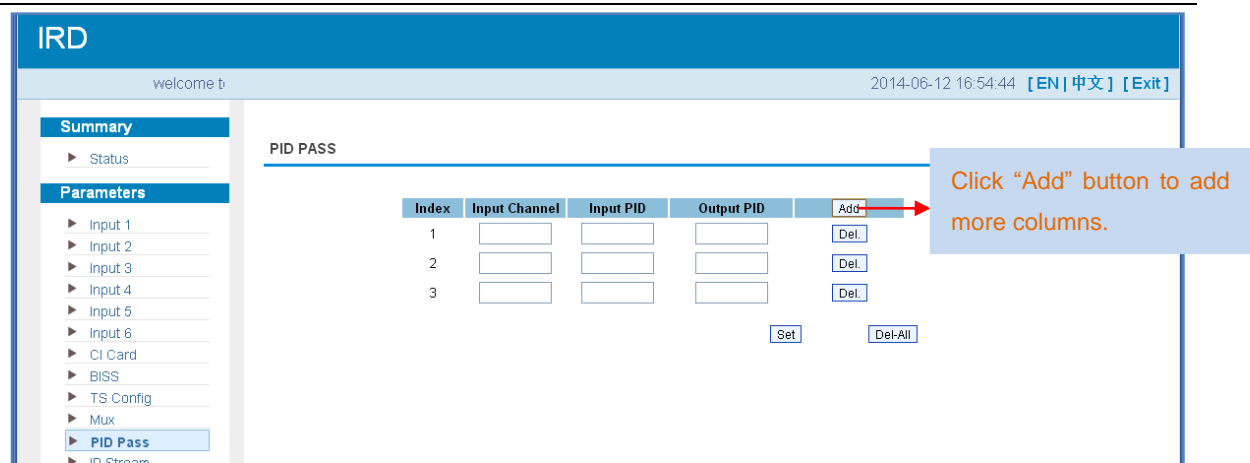


Figure-13

**Parameters → IP Stream:**

This unit supports TS output in IP (1 MPTS & 8 SPTS). Click “IP Stream” and it displays the interface where users can configure the MPTS/SPTS out parameters. (Figure-14)

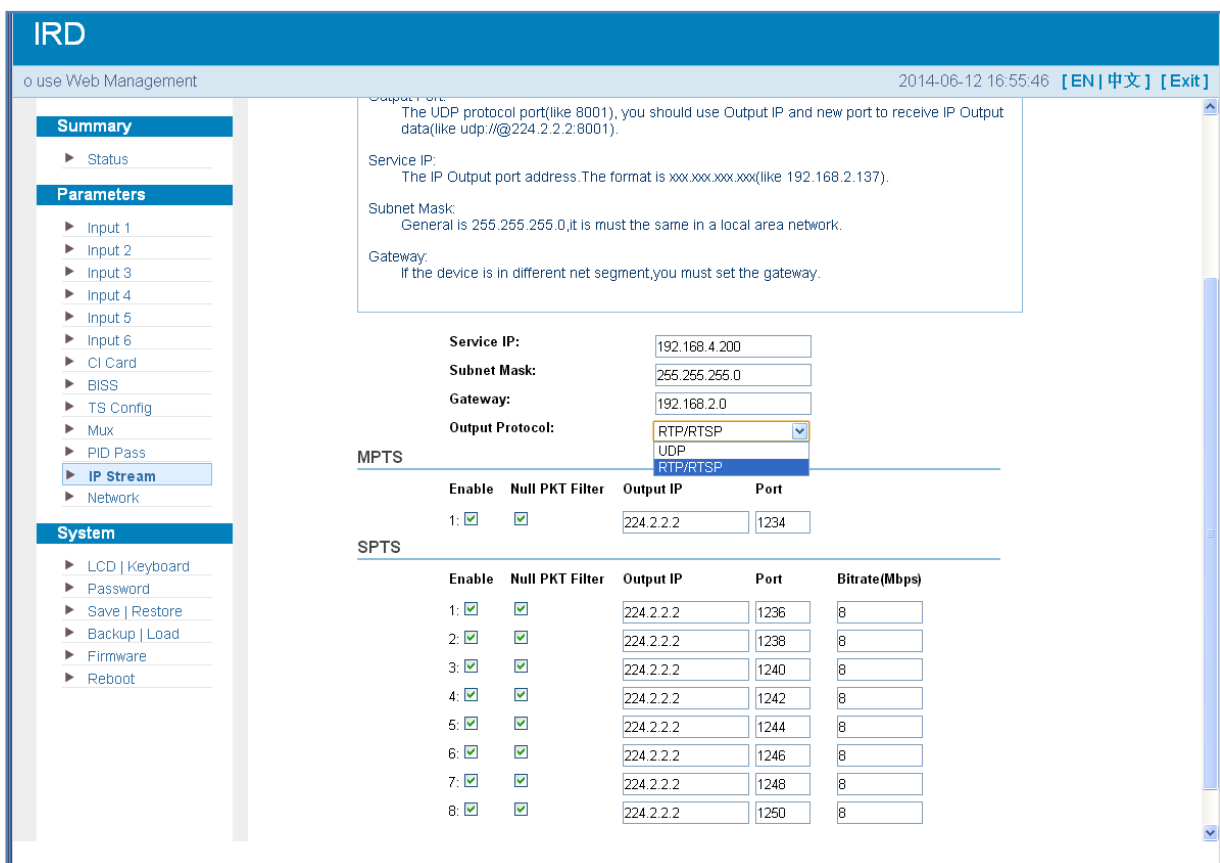


Figure-14

**Parameters → Network:**

From the menu on left side of the webpage, clicking “Network”, it will display the screen as Figure-15 where to configure the network parameters for the device.

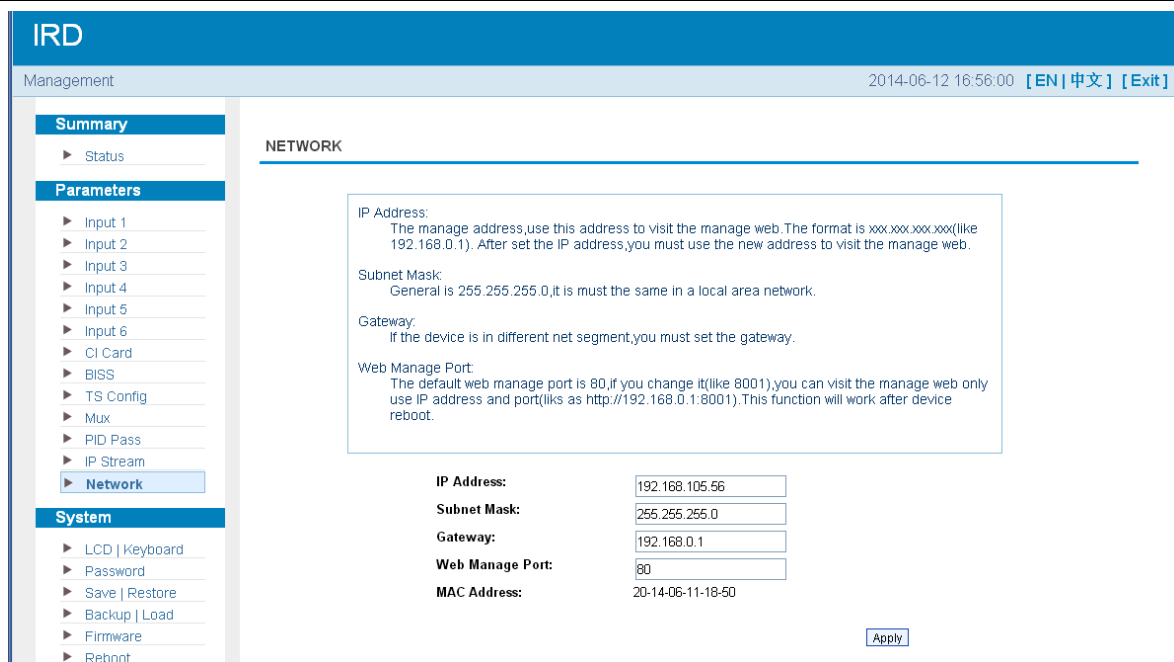


Figure-15

**System → LCD/Keyboard:**

From the menu on left side of the webpage, clicking “LCD/Keyboard”, it will display the screen as Figure-16 where to control the device’s front panel.

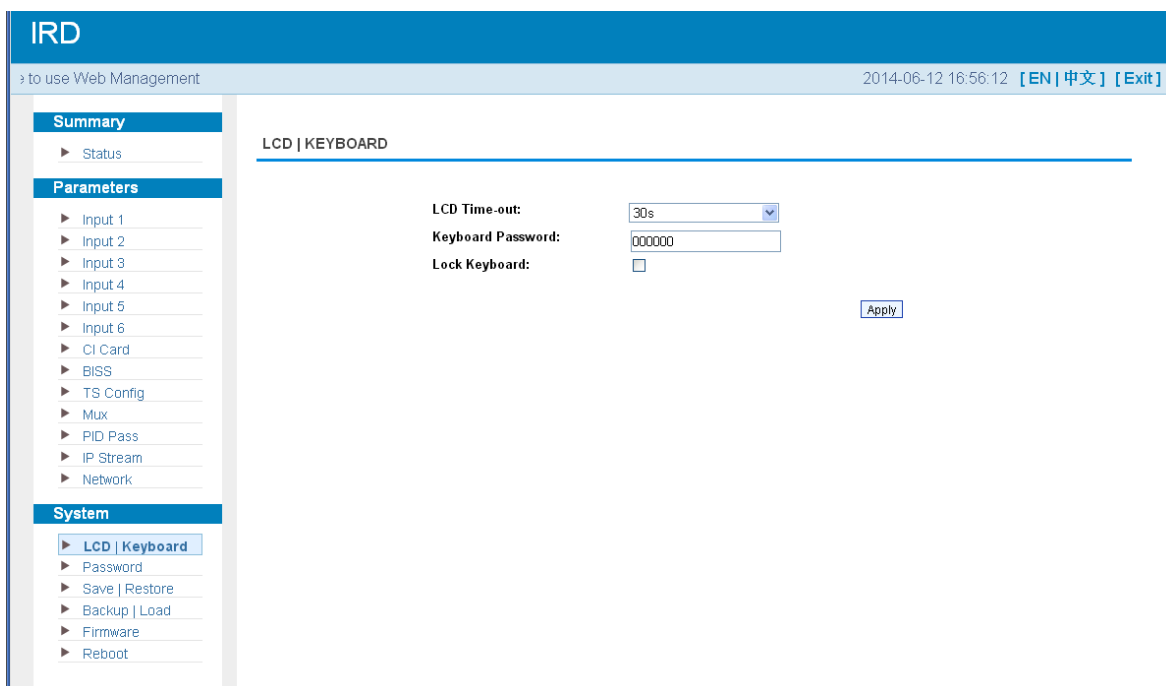


Figure-16

**System → Password:**

From the menu on left side of the webpage, clicking “Password”, it will display the screen as Figure-17 where to set the login account and password for the web NMS.

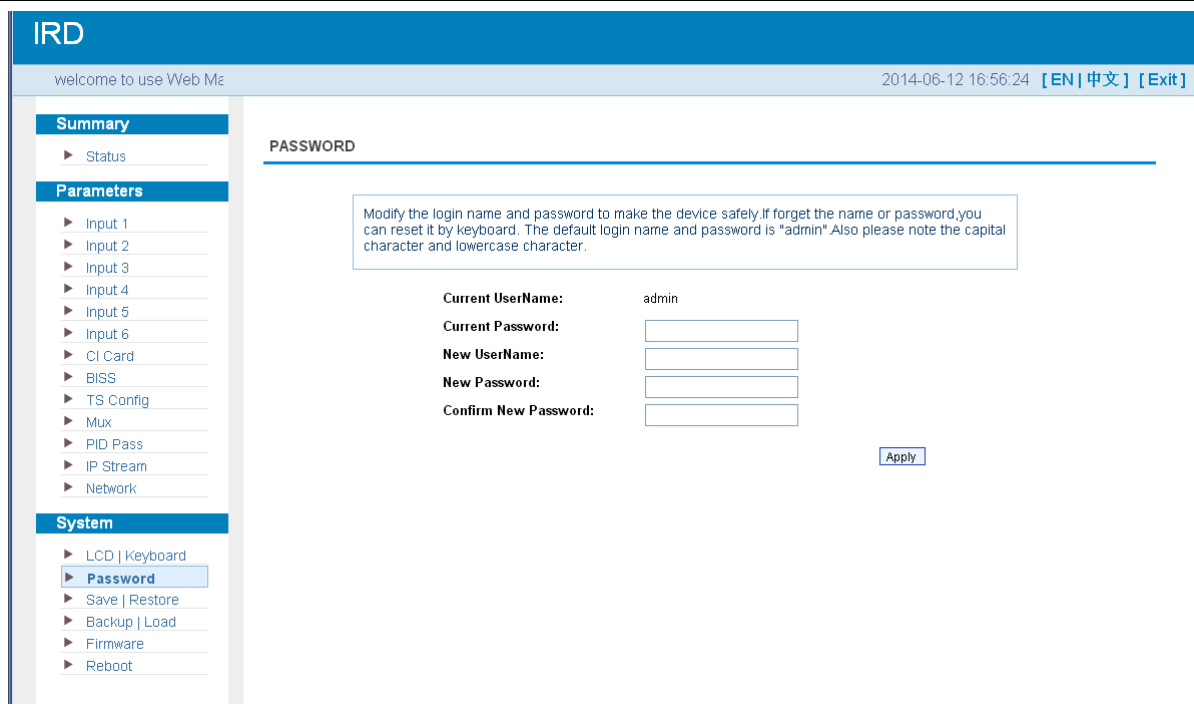


Figure-17

**System → Save/Restore:**

From the menu on left side of the webpage, clicking “Save/Restore”, it will display the screen as Figure-18 where to save or restore your configurations.

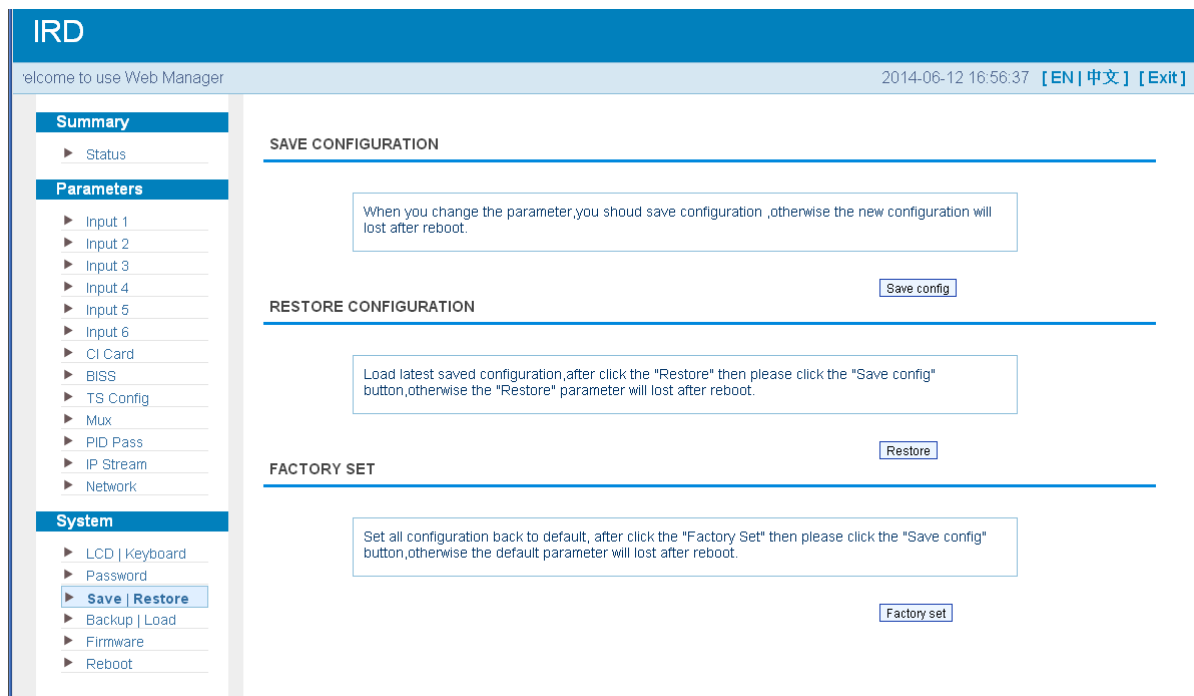


Figure-18

**System → Backup/Load:**

From the menu on left side of the webpage, clicking “Backup/Load”, it will display the screen as Figure-19 where to backup or load your configurations.

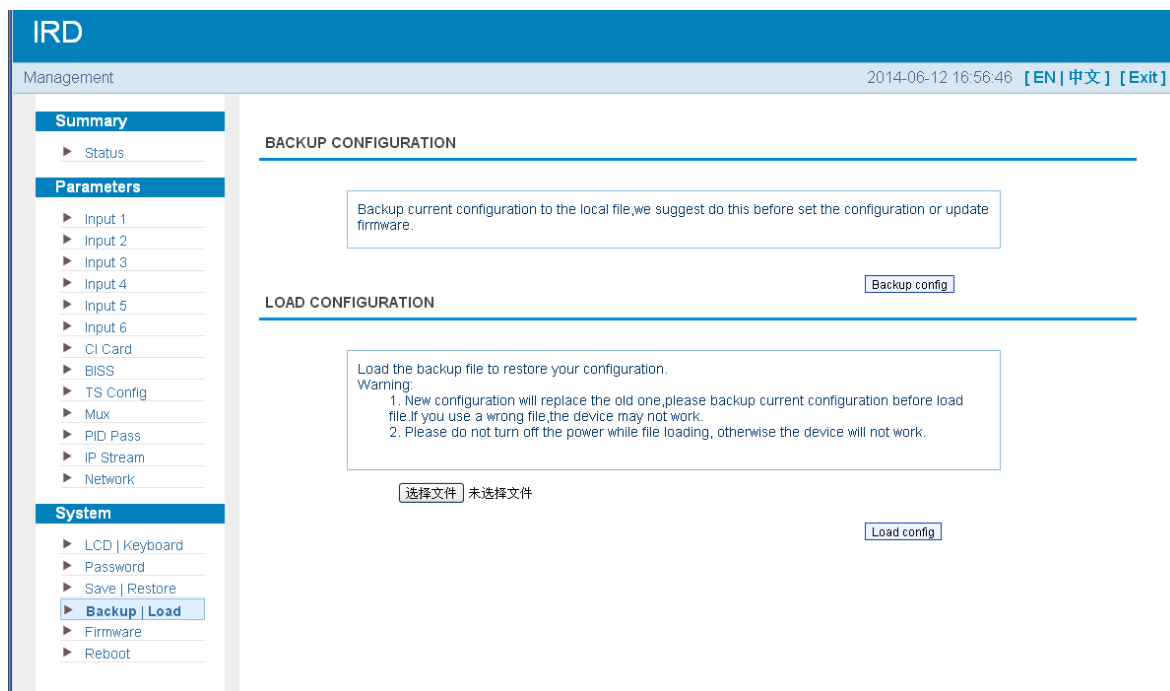


Figure-19

**System → Firmware:**

From the menu on left side of the webpage, clicking “Firmware”, it will display the screen as Figure-20 where to update firmware for the device.



Figure-20

**System → Reboot:**

From the menu on left side of the webpage, clicking “Reboot”, it will display the screen as Figure-21 where to restart the device manually.

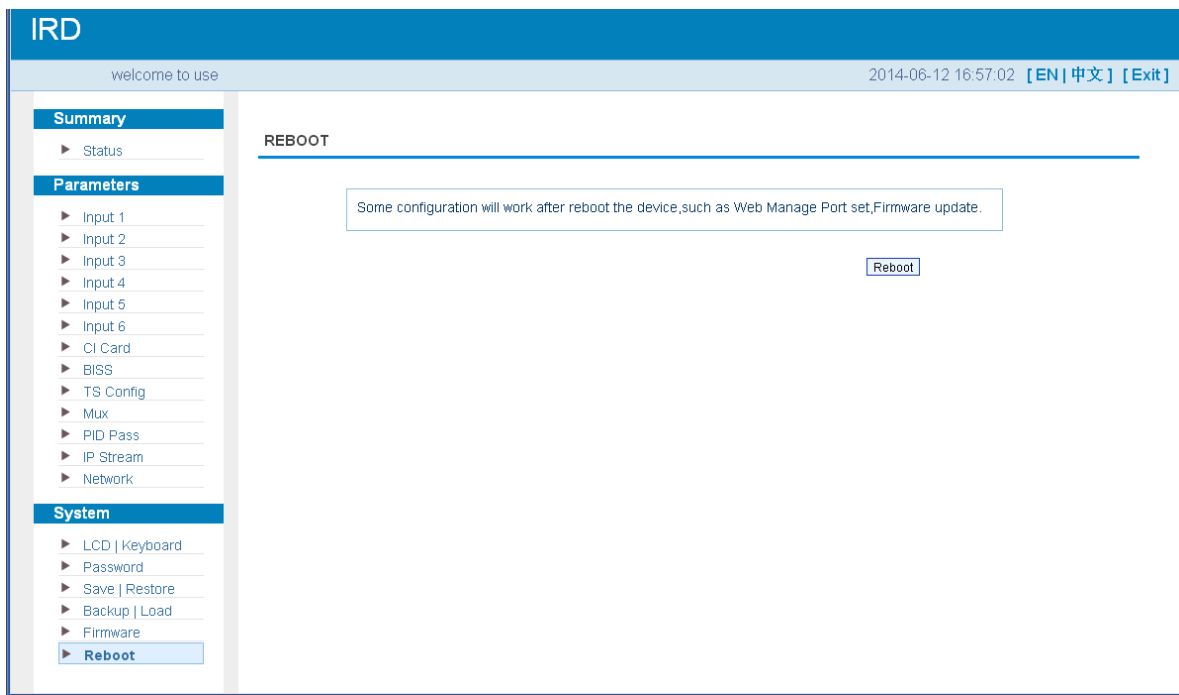


Figure-21

## Chapter 5 Troubleshooting

DEXIN's ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All DEXIN products have been 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 DEXIN. 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 voltage 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 need 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 6 Packing List

- NDS357X IRD 1pcs
- User's Manual 1pcs
- RF Loop-through Cables 2pcs
- Power Cord 1pcs

### Ordering Guide

NDS357X, 'X' should be interpreted as different digits which indicate tuners of different standard.

- ✓ NDS3571 DVB-C IRD
- ✓ NDS3574 DVB-T/T2 IRD
- ✓ NDS3575 DVB-S/S2 IRD