



HP394D 4 IN1 DVB-S2 IP/SPTS IRD

with 4CI

>>User Manual

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Introduction




Thanks for choosing our products.

This Manual introduces product performance, installation and operation in details.

Please read this manual before starting to use the product no matter it's the first time for you to use or you have known similar ones before.

Inspection

Make sure package is in perfect condition and all accessories are there as packing list or below shows:

 HP394D 4IN1 DVB-S2 IRD with 4CI	1 set
 Power line	1 piece
 ASI cable	1 piece

If you find items are not same as above, please kindly inform us immediately.

Read the User Manual

Please read it carefully and do as it asks.

1 SAFETY INSTRUCTION

- Read manual carefully before use
- Do not open the case and touch internal components for safety and warranty
- Pull out power plug in case of long time standby. Do not use faulty power plug or power supply to avoid fire or electric shock
- Do not touch power supply with wet hands
- Handle with care when pulling out power plug, no touch with the wire
- No flammable or liquid allowed into device
- Do not install device in hot area or strong sunshine or dusty place
- Shock-proof is a must
- Room with good ventilation is required
- Keep original packing material for future possible transportation

2 Overview



2.1 Function and Application

HP394D DVB-S/S2 4-channel IRD with CI supports 4xDVB-S/S2 RF input. It has 4×CI interfaces and supports multi-type of CAM cards. It can output 4×ASI and IP (SPTS, TS over UDP). It suits 1U rack and provides front panel LCD operation and NMS (Network Management Software) controlling. Its high-integrated and cost-effective design makes it widely used in varieties of digital broadcasting distribution systems.

2.2 Size (1U Rack)

Length: 482mm
Width: 410mm
Height: 44mm
Net Weight: 4.0 KG

3 Main Feature

- Support 4 DVB-S/DVB-S2 input
- Support 4×CI slots
- Support ASI/IP (SPTS, TS over UDP) output
- Common interface with 4 slots (PCMCIA) supports multi-type of CAM cards
- 4 slots of PCMCIA module could descramble multi-program stream
- Frequency Range: 950~2150Mhz

4 Technical Specification

Input	RF (DVB-S/S2)	4xDVB-S/S2(950-2150MHz),F-head
Output	4×ASI	DVB standard, 4xBNC interface
	IP	SPTS,TS over UDP,100M RJ45 port
General Features	Size	482mm×280mm×44mm
	Temperature Range	0~45°C (Operation); -20~80°C (Storage)
	Power	100-240VAC, 50Hz, 25W

4.1 RF IN

Input interface: DVB-S/S2, F-head

Connector: F-head

Impedance: 75Ω

Input frequency: 950 MHz~2150 MHz

Symbol Rate: 2Msps~45Msps

TS package format: 188/204bytes (automatic identification)

4.2 Output

4.2.1 ASI OUT

Output interface: ASI, DVB standard

Connector: BNC

Impedance: 75Ω

TS package format: 188/204bytes (automatic identification)

4.2.2 IP OUT

Ethernet Port: IEEE802.3 Ethernet, RJ45

Software Protocol: IP/UDP

4.3 Network Interface

Ethernet Port: IEEE802.3 Ethernet, RJ45

Software Protocol: IP/UDP

4.4 Radiation and Safety Requirements

Conforms to GB13837-92 & GB8898-88

5 System Composition and Operating Principle

5.1 System Composition

Structure Diagram (1U Rack)

Front Panel



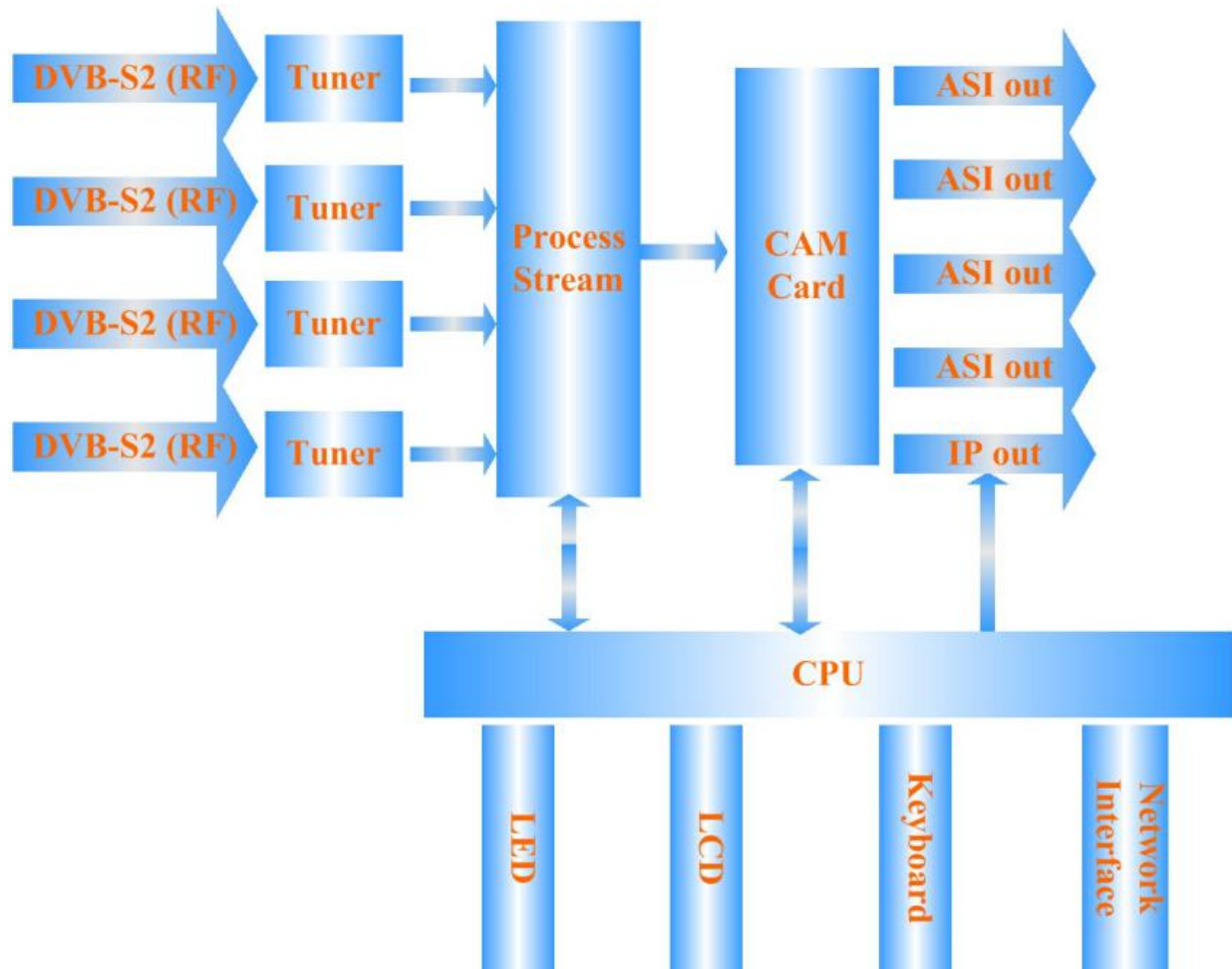
1	LCD Display
2	Signal & Cam Indicator
3	Indicator
4	Keyboard
5	Enter
6	Exit

Rear Panel



1	RF IN and RF LOOP OUT
2	Common Interface
3	ASI OUT
4	IP OUT
5	Ethernet Port
6	Power Switch

5.2 Operating Principle



6 Installation Guide

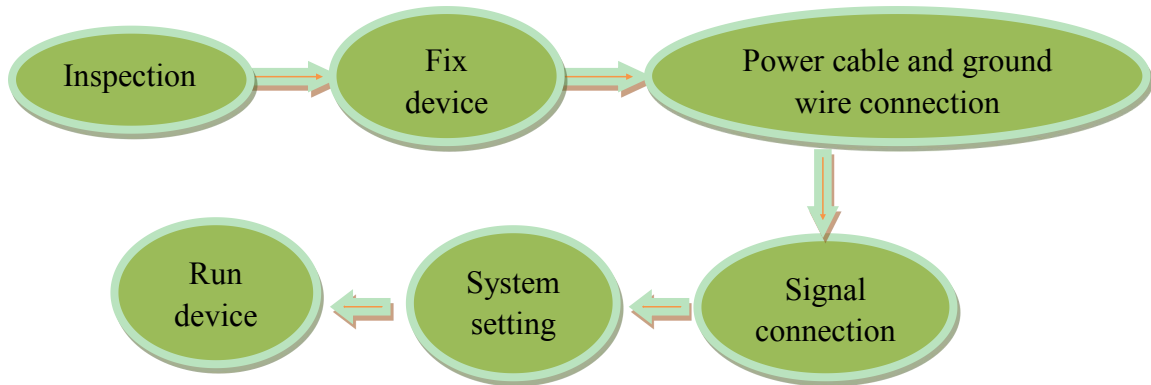
6.1 Installation Preparation

Please install as bellow steps:

- Check possible lose or damage of the device during transportation
- Prepare a suitable environment for installation
- Install the device
- Signal cable connection

Each tiny step will be mentioned in this chapter. Please refer to rear panel for specific location.

6.2 Installation Procedure



6.3 Environment Requirement

Project	Requirement
Room Space	When installing multi-row of racks, please make the distance 1.2~1.5M between front door and back door, and the distance 0.8M between rack and wall.
Room Floor	Non-conducting, dust-free Ground anti-static material volume resistivity: $1 \times 10^7 - 1 \times 10^{10} \Omega$, ground current-limiting resistance: $1M\Omega$, floor bearing weight: $>450KG/M^2$
Temperature	Long-term operation: $5 \sim 40^\circ C$, short-term operation: $0 \sim 45^\circ C$, air-conditioner is a good option.
Relative Humidity	Long-term operation: 20%~80%, short-term operation: 10%-90%
Ambient Pressure	86-105KPa
Doors and Windows	Seal by dust-prevention rubber strip, double glass is a good option for window and seal it tightly.
Fire Requirement	Automatic fire alarm system and hand-held fixed fire extinguish system are required.
Power Requirement	3 stand alone power supply system for equipment, air-conditioner, and lighting. Alternating current power supply for equipment (220V, 50Hz, 24.2W). Please check before running the device.

6.4 Grounding Requirement

- Good ground wire design is the base of the whole system, and is essential to lightning protection and anti-interference. The system must follow above principles.
- Keep good electrical contact between both ends of outer conductor and shielding layer and the appearance of metal case of the connected device.
- Make sure that connections of both ends of the ground wire are with good electrical contact and prepare for corrosion prevention treatment.
- Do not use other device for ground wire electrical connection.
- The sectional area of ground wire from rack connecting to anti-thunder unit must be greater than or equal to 25mm²

6.4.1 Rack Grounding

Ground terminals of racks in one room should be separately connected to protective are copper bar provided by side board. And ground wire should be as far as possible short. If the wire is too long when installing, please cut off to avoid ground wire coiling. The sectional area of guide line of ground terminal row must be greater than or equal to 25mm².

6.4.2 Equipment Grounding

When grounding, use guide line to connect protective area binding post to the protective ground wire row of assembly rack.

6.5 Cable Connection

6.5.1 Power Cable Connection

- Power jack is on the left of rear panel, power switch is at the left side of power jack, and ground connecting screw is at the lower left side of power jack.
- Connecting power cable: put one end of the cable into the AC power jack and the other (power plug) to the AC power supply.

-
- Connecting ground wire: when connecting alone to protective area in the room, you can use independent ground or common ground with other equipments (like transmission equipment) with a resistance less than 1.

Note:

Before connecting power cable, please turn power switch to “O” position and it’s required to ground with power supply system.

6.5.2 Signal Line Connection

Before operating, user should connect all devices requiring cables.

7 Front Panel Operation Guide

7.1 Keyboard

Left & right keys: moving cursor

Up & down keys: menu scanning and modifies parameter

Enter: go in submenu and parameter confirm

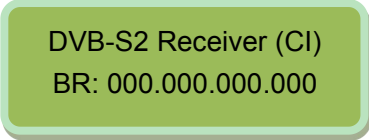
Exit: return or cancel modification

Note:

- A. When keyboard is locked, press any key to make LCD active, and then press “enter”, and then “exit” to unlock the keyboard to enter the main menu.
- B. After 60 seconds without any operation, the keyboard automatically locks.
- C. When keyboard it locked, press any key to make LCD active, and then press up key to check device version number, down key to check IP address, right key to check MAC address.
- D. For numerical value modification, press “enter” key to active the cursor, then move cursor to the specific location, press “up or down” key to change the value, press enter key again to confirm parameter modification.

7.2 Menu

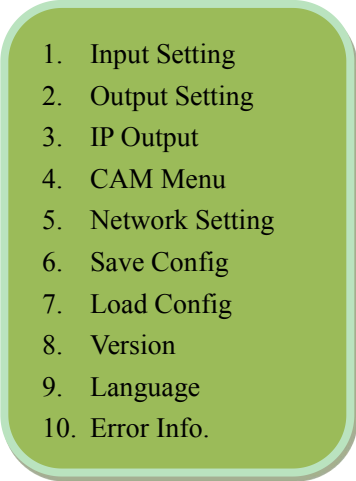
7.2.1 Lock Status Display



DVB-S2 Receiver (CI)
BR: 000.000.000.000

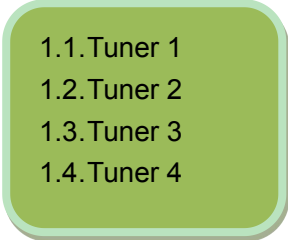
7.2.2 Press “EXIT” to Enter Menu

After initialization, the menu shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):

- 
1. Input Setting
 2. Output Setting
 3. IP Output
 4. CAM Menu
 5. Network Setting
 6. Save Config
 7. Load Config
 8. Version
 9. Language
 10. Error Info.

7.2.3 Input Setting

Move the cursor to “input Setting” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):

- 
- 1.1. Tuner 1
 - 1.2. Tuner 2
 - 1.3. Tuner 3
 - 1.4. Tuner 4

■ Tuner1-4 is same. Here takes setting for tuner 1 as an example.

7.2.3.1 Tuner 1

Move the cursor to “tuner 1” and enter into it. Then it shows as below (Press ‘up or down’ key

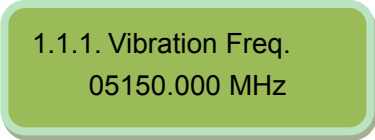
to choose menu, then press the ‘enter’ key to confirm):



1.1.1. Vibration Freq.
1.1.2. Downlink Freq
1.1.3. Symbol Rate
1.1.4. Polarization
1.1.5. 22 KHz
1.1.6. DisEqc

7.2.3.1.1 Vibration Freq.

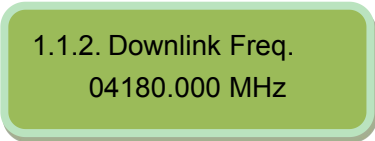
Move the cursor to “vibration freq.” and enter into it. Then it shows as below:



1.1.1. Vibration Freq.
05150.000 MHz

7.2.3.1.2 Downlink Freq.

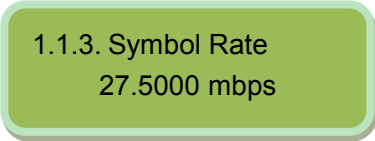
Move the cursor to “downlink freq.” and enter into it. Then it shows as below:



1.1.2. Downlink Freq.
04180.000 MHz

7.2.3.1.3 Symbol Rate

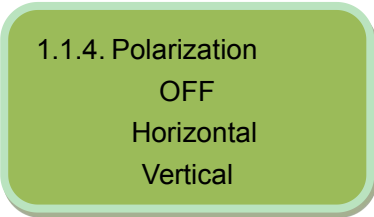
Move the cursor to “symbol rate” and enter into it. Then it shows as below:



1.1.3. Symbol Rate
27.5000 mbps

7.2.3.1.4 Polarization

Move the cursor to “polarization” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):



1.1.4. Polarization
OFF
Horizontal
Vertical

7.2.3.1.5 22KHz


Move the cursor to “22KHz” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):



1.1.5. 22KHz
ON
OFF

7.2.3.1.6 DisEqc

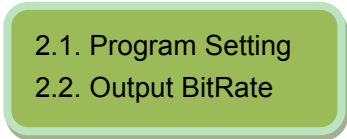
Move the cursor to “DisEqc” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):



1.1.6. DisEqc
OFF
LNB1
LNB2
LNB3
LNB4

7.2.4 Output Setting

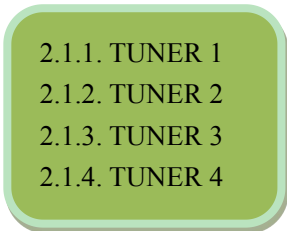
Move the cursor to “output setting” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):



2.1. Program Setting
2.2. Output BitRate

7.2.4.1 Program Setting

Move the cursor to “program setting” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):

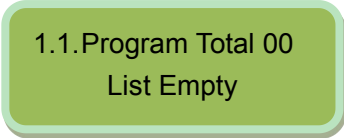


2.1.1. TUNER 1
2.1.2. TUNER 2
2.1.3. TUNER 3
2.1.4. TUNER 4

-
- **Tuner1-4 is same. Here takes tuner1 as an example.**

7.2.4.1.1 TUNER1

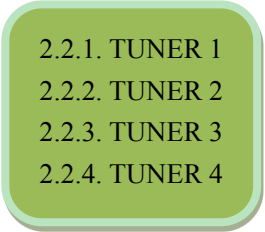
Move the cursor to “tuner1” and enter into it. Then it shows as below:



1.1.Program Total 00
List Empty

7.2.4.2 Output BitRate

Move the cursor to “output bitrate” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):

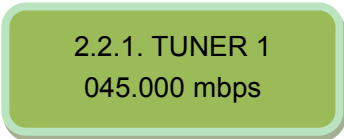


2.2.1. TUNER 1
2.2.2. TUNER 2
2.2.3. TUNER 3
2.2.4. TUNER 4

- **Tuner1-4 is same. Here takes tuner1 as an example.**

7.2.4.2.1 TUNER1

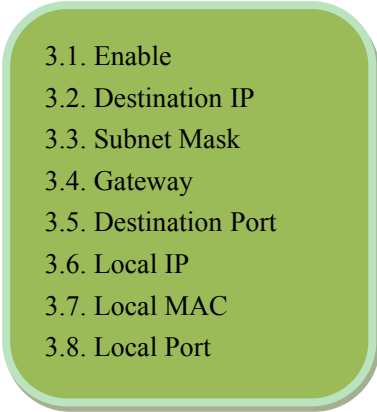
Move the cursor to “tuner1” and enter into it. Then it shows as below:



2.2.1. TUNER 1
045.000 mbps

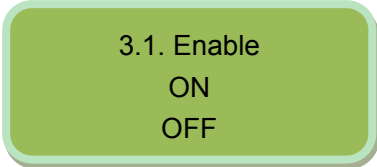
7.2.5 IP Output

Move the cursor to “IP output” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):

-
- 
- 3.1. Enable
 - 3.2. Destination IP
 - 3.3. Subnet Mask
 - 3.4. Gateway
 - 3.5. Destination Port
 - 3.6. Local IP
 - 3.7. Local MAC
 - 3.8. Local Port

7.2.5.1 Enable

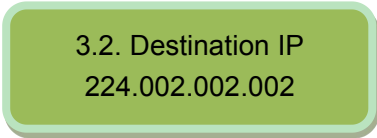
Move the cursor to “enable” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):



3.1. Enable
ON
OFF

7.2.5.2 Destination IP

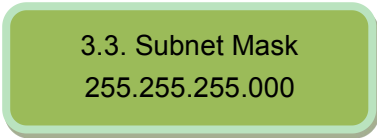
Move the cursor to “destination IP” and enter into it. Then it shows as below:



3.2. Destination IP
224.002.002.002

7.2.5.3 Subnet Mask

Move the cursor to “subnet mask” and enter into it. Then it shows as below:



3.3. Subnet Mask
255.255.255.000

7.2.5.4 Gateway

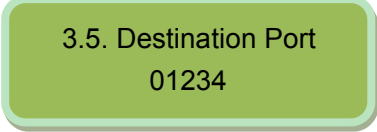
Move the cursor to “gateway” and enter into it. Then it shows as below:



3.4. Gateway
192.168.000.001

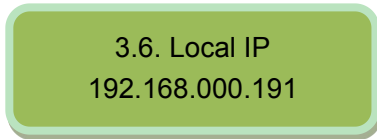
7.2.5.5 Destination Port

Move the cursor to “destination port” and enter into it. Then it shows as below:



7.2.5.6 Local IP

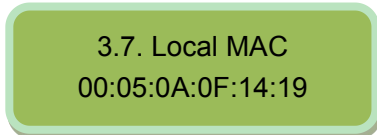
Move the cursor to “local IP” and enter into it. Then it shows as below:



7.2.5.7 Local MAC

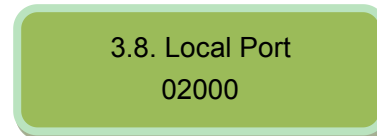
Move the cursor to “local MAC” and enter into it. Then it shows as below:

:



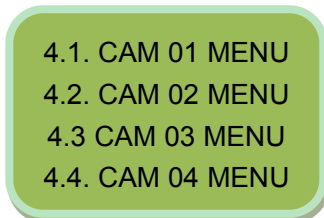
7.2.5.8 Local Port

Move the cursor to “local port” and enter into it. Then it shows as below:



7.2.6 CAM Menu

Move the cursor to “CAM menu” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):



7.2.6.1 CAM 01 MENU

Move the cursor to “CAM 01 menu” and enter into it. Then it shows as below:

4.1. CAM 01 MENU
No CAM Card

7.2.6.2 CAM 02 MENU

Move the cursor to “CAM 02 menu” and enter into it. Then it shows as below:

4.2. CAM 02 MENU
No CAM Card

7.2.6.3 CAM 03 MENU

Move the cursor to “CAM 03 menu” and enter into it. Then it shows as below:

4.3. CAM 03 MENU
No CAM Card

7.2.6.4 CAM 04 MENU

Move the cursor to “CAM 04 menu” and enter into it. Then it shows as below:

4.4. CAM 04 MENU
No CAM Card

7.2.7 Network Setting

Move the cursor to “network setting” and enter into it. Then it shows as below (Press ‘up or down’ key to choose menu, then press the ‘enter’ key to confirm):

5.1. IP Address
5.2. Subnet Mask
5.3. Gateway
5.4. NMS UDP Port
5.5. MAC Address

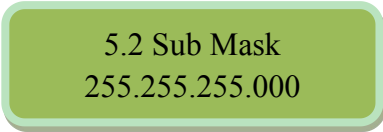
7.2.7.1 IP Address

Move the cursor to “IP address” and enter into it. Then it shows as below:

5.1 IP Address
192.168.000.057

7.2.7.2 Subnet Mask

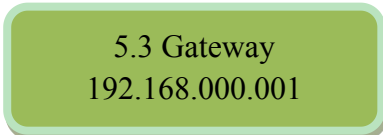
Move the cursor to “subnet mask” and enter into it. Then it shows as below:



5.2 Sub Mask
255.255.255.000

7.2.7.3 Gateway

Move the cursor to “gateway” and enter into it. Then it shows as below
:



5.3 Gateway
192.168.000.001

7.2.7.4 NMS UDP Port

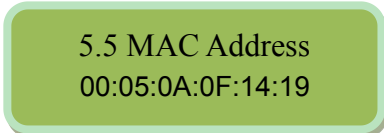
Move the cursor to “NMS UDP port” and enter into it. Then it shows as below:



5.4 NMS UDP Port
2009

7.2.7.5 MAC Address

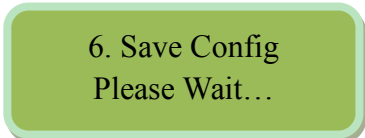
Move the cursor to “MAC address” and enter into it. Then it shows as below:



5.5 MAC Address
00:05:0A:0F:14:19

7.2.8 Save Config

Move the cursor to “save config” and enter into it. Then it shows as below:



6. Save Config
Please Wait...

Power Failure Saving:

When power failure, it can automatically save last status and start again when power on.

7.2.9 Load Config

Move the cursor to “load config” and enter into it. Then it shows as below (Press ‘up or down’


key to choose menu, then press the ‘enter’ key to confirm):



7.1. Reload Config
7.2. Restore Config

7.2.9.1 Reload Config


Move the cursor to “reload config” and enter into it. Then it shows as below:



7.1. Reload Config
Please Wait...

7.2.9.2 Restore Config

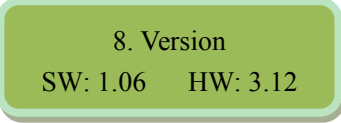
Move the cursor to “restore config” and enter into it. Then it shows as below:



7.2. Restore Config
Please Wait...

7.2.10 Version

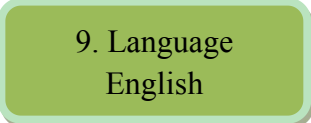
Move the cursor to “version” and enter into it. Then it shows as below:



8. Version
SW: 1.06 HW: 3.12

7.2.11 Language

Move the cursor to “language” and enter into it. Then it shows as below:

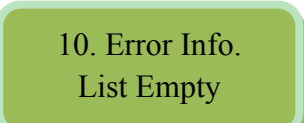


9. Language
English

The system works normally after all above settings.

7.2.12 Error Info

Move the cursor to “error info.” and enter into it. It shows as below:



10. Error Info.
List Empty

7.3 Error Info and Shooting

7.3.1 Indicator Status

There are 2 LED indicators on the panel:

1. “POWER” is power indicator. When switch on, it’s green, which indicates device works well.
2. “ERROR” indicates error status when it’s red.
3. “LOCK1, 2, 3, 4” means each input channels status

7.3.2 Error Shooting

7.3.2.1 “POWER” is off


Please check power supply, power cable and power plug.

7.3.2.2 “ALARM” Indicator Turns Red

Device works abnormally. Please check error info and process accordingly.

8 NMS Operation Guide

Network Management System (NMS) can remotely set config and monitor the device. It can be used only after being authorized.

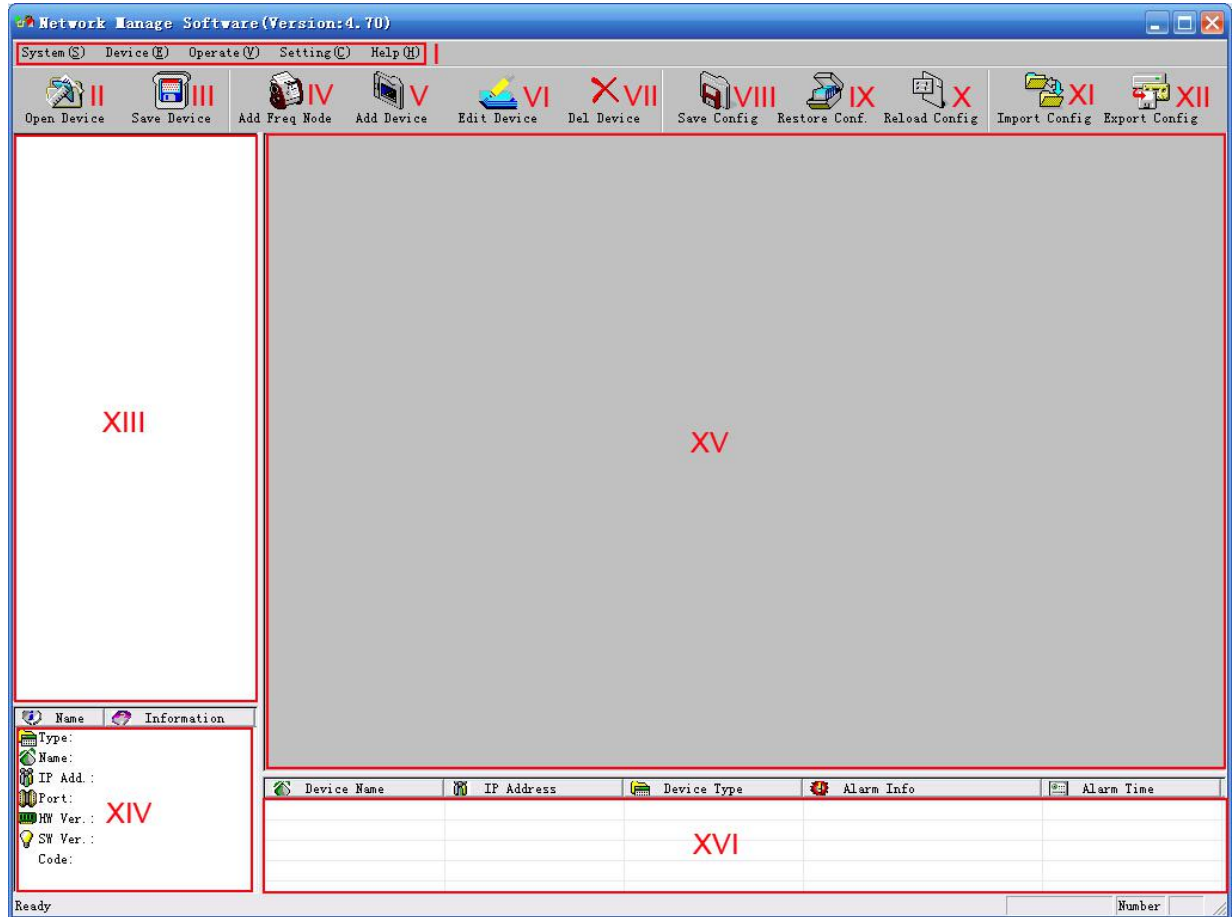
Except setting config by front panel, you can also use NMS  on a PC to set and monitor device. Most of all head-end equipments (satellite receiver, encoder, multiplexer, scrambler, modulator, and adapter, etc.) can be set by NMS which is with UDP protocol and supports windows operation system.

8.1 NMS Login



NMS Login Interface

Default user name and password are “admin”. You can change the user name and password by “Setting”->”User Setting” and then login again. If it’s the first time to use it, without any device info, the menu shows as below:



Current NMS is without any device, user can add per his device.

- | | |
|-------------------|-----------------------------|
| I: Menu Bar | IX: Restore Config |
| II: Open Device | X: Reload Config |
| III: Save Device | XI: Import Config |
| IV: Add Freq Node | XII: Export Config |
| V: Add Device | XIII: Device List |
| VI: Edit Device | XIV: Device Connection Info |
| VII: Del Device | XV: Device Config Operation |
| VIII: Save Config | XVI: Alarm List |

Below chapters will introduce above functions separately.

“Open Device” & “Save Device”: open saved config and save current config. If the config and the NMS are in the same file, they can automatically run when opening or closing the network management software.

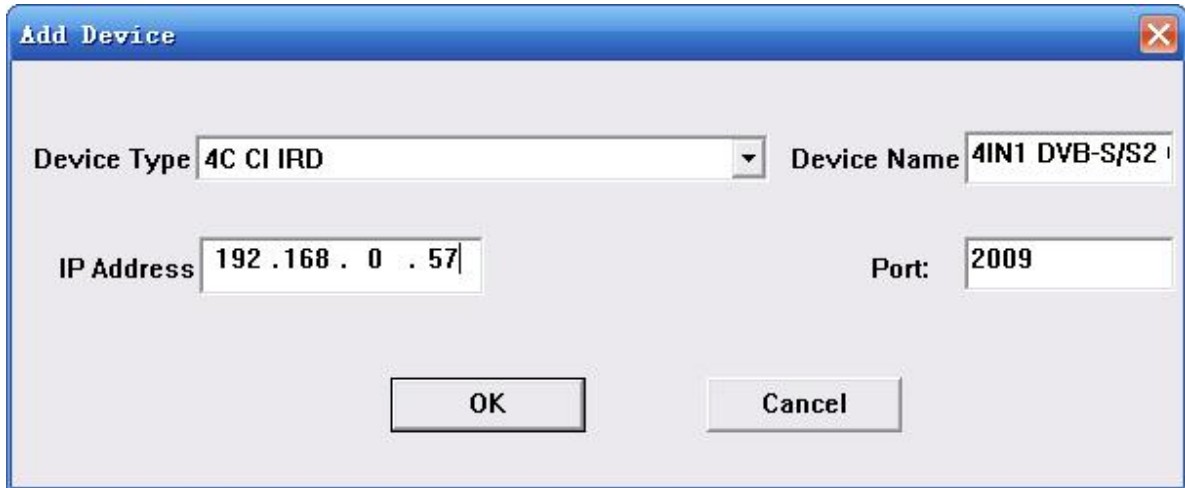
8.2 Add Frequency

“Add Frequency”: all devices can be divided and managed by frequency. Click “Add Freq Node”, then a dialog for adding frequency shows up. Input a frequency, like “385MHZ”, and then click “OK” to confirm:



8.3 Add Device

Add device under the frequency. Choose frequency and then click “Add Device”, then below dialog shows up:

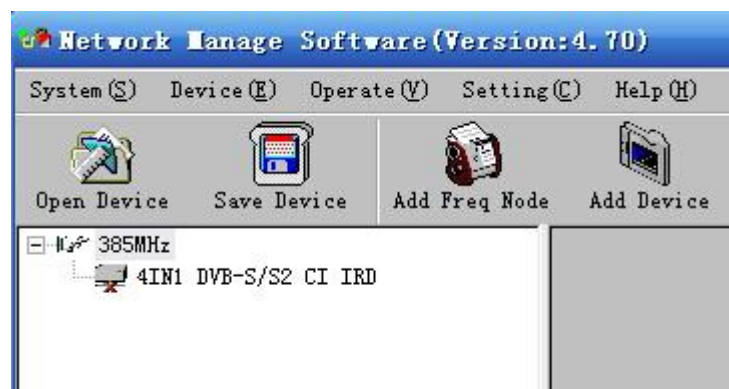


ADD "4C CI IRD"

Choose device type "4C CI IRD", set device name (you can name as you like), and set IP address and Port of the device. You can check IP address by clicking down key on the panel or you can enter into "Network Setting" in the menu to check it. Default IP address and Port for 4C CI IRD are 192.168.000.057 and 2009.

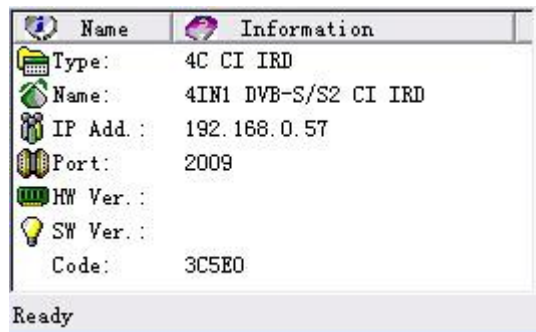
8.4 Edit Device

Click the device you need to edit and then you can edit any you like. If the device is not connected, then it shows as below:

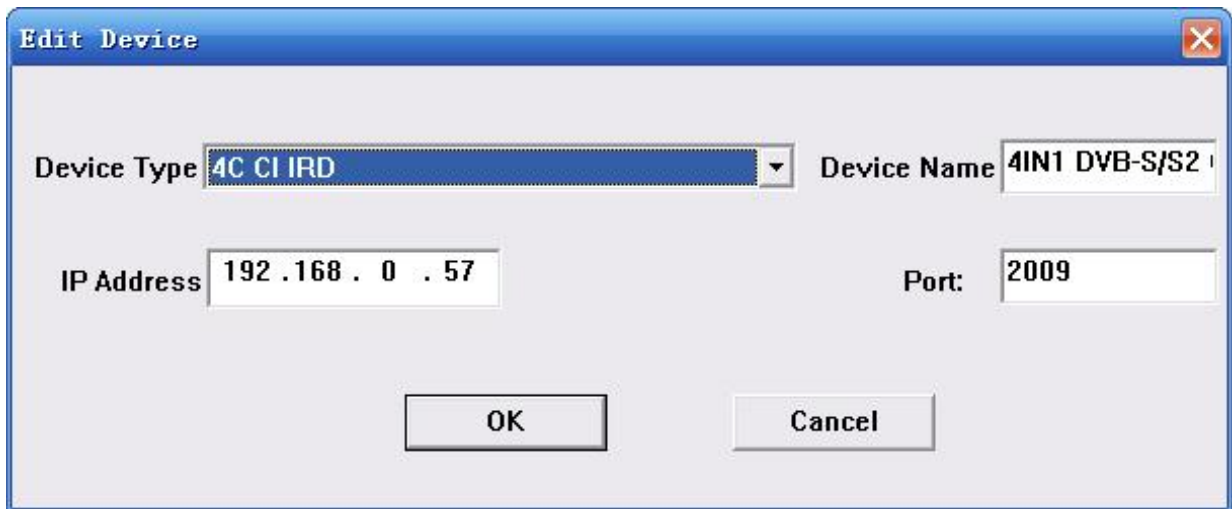


Then check by below steps:

1. Check if the connection info is correct:



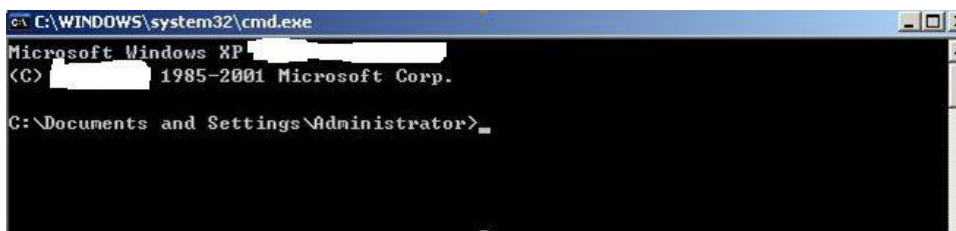
If config is wrong, please choose the device and then click “Edit Device”, then below dialog shows up. Modify it and then click “OK” to save.



2. Check if there is IP conflict. Turn off the device, and input “cmd.exe” at command column on your PC:



After entering into it:



Input “arp -d” to clear old “arp” information:



Input “PING”:

```

C:\WINDOWS\system32\cmd.exe - ping 192.168.0.20 -t
Microsoft Windows XP [version 5.1.2600.5512]
(C) 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.0.20 -t

Pinging 192.168.0.20 with 32 bytes of data:

Reply from 192.168.0.20: bytes=32 time=1ms TTL=64
Reply from 192.168.0.20: bytes=32 time=1ms TTL=64
Reply from 192.168.0.20: bytes=32 time=1ms TTL=64

```

Here the ping is 192.168.0.20 (you can put your device IP address when you do it). Here we found 192.168.0.20 passed, which means there is already a device with 192.168.0.20. Then we can find the device out and modify the IP address of the device or your device.



After shooting the problem, the icon turns

The screenshot shows the 'Network Manage Software' interface. The main window displays a 'Signal Monitor' table with the following data:

Channel	Program	BitRate	CAM	Lock	Signal	Signal Strength
1	0	3.504	●	●	[Progress Bar]	16.66
2	0	3.504	●	●	[Progress Bar]	17.55
3	0	3.504	●	●	[Progress Bar]	17.86
4	0	3.504	●	●	[Progress Bar]	17.58

At the bottom left, there is a 'Name Information' section for a device:

- Type: 4C CI IRD
- Name: 4IN1 DVB-S/S2 CI IRD
- IP Addr.: 192.168.0.57
- Port: 2009
- HW Ver.: 3C5E0
- SW Ver.: 3C5E0
- Code: 3C5E0

At the bottom right, there is a table with columns: Device Name, IP Address, Device Type, Alarm Info, and Alarm Time.

Device Name	IP Address	Device Type	Alarm Info	Alarm Time
4IN1 DVB-S/S2 CI IRD	192.168.0.57	4C CI IRD	Device offline	2014-8-9 14:36:2
4IN1 DVB-S/S2 CI IRD	192.168.0.57	4C CI IRD	Device online	2014-8-9 14:36:44


At the device list column, click device name to check it. Check the basic info (like firmware and software version) at the device connection column and edit it at the right device operation area.

“Del Device”: delete the device you don’t need from the device list.

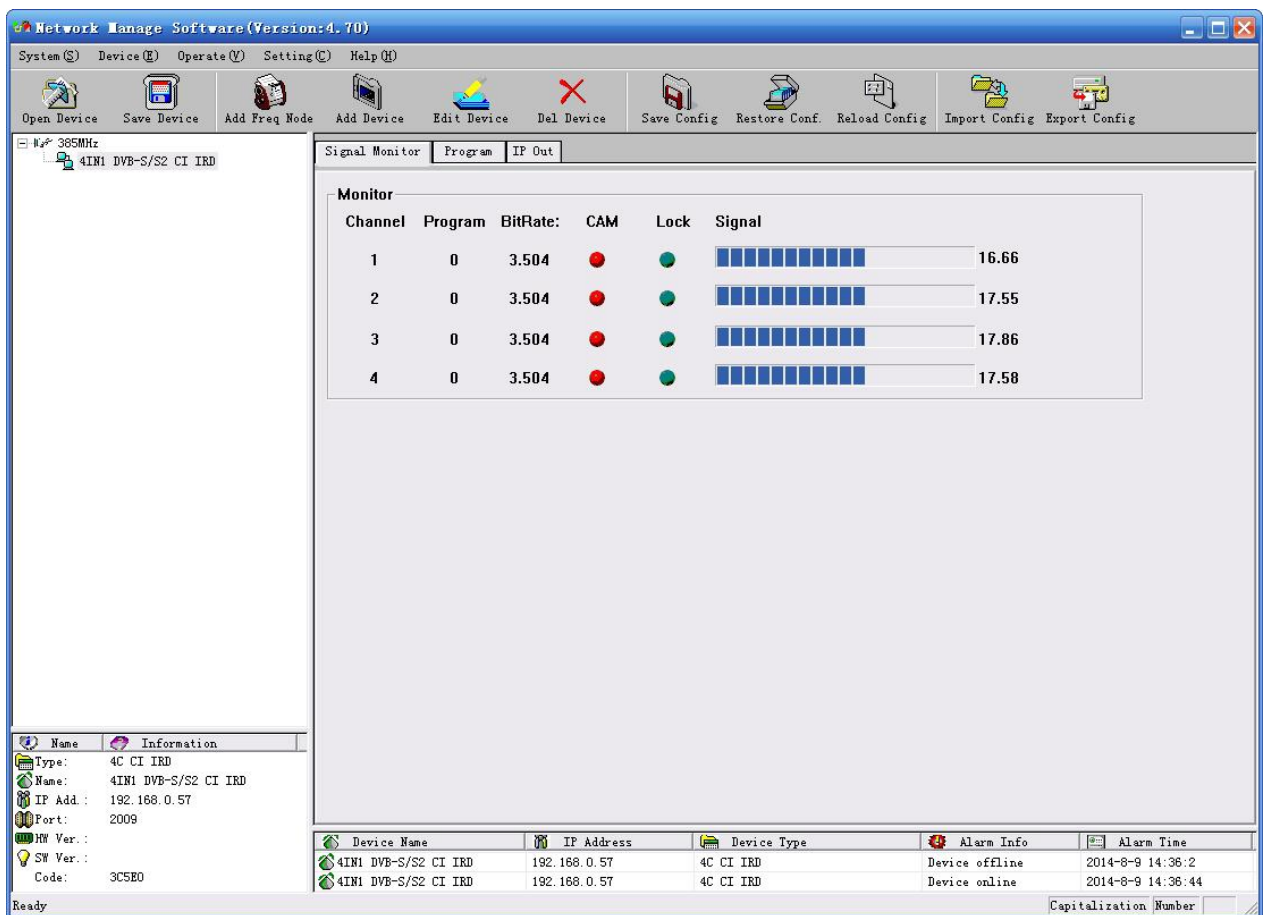
8.5 Check and Set Config

Note: user had better do the following operation before configuring the device:


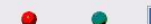




Click **Import Config** button in NMS software, then click  **Erase** button to clear the old parameter.

8.5.1 Signal Monitor



The screenshot shows the "Signal Monitor" window in the Network Manage Software. The window title is "Network Manage Software (Version: 4.70)". The menu bar includes System, Device, Operate, Setting, and Help. The toolbar contains buttons for Open Device, Save Device, Add Freq Node, Add Device, Edit Device, Del Device, Save Config, Restore Conf., Reload Config, Import Config, and Export Config. The main area is divided into tabs for Signal Monitor, Program, and IP Out. The Signal Monitor tab is active, displaying a table with the following data:

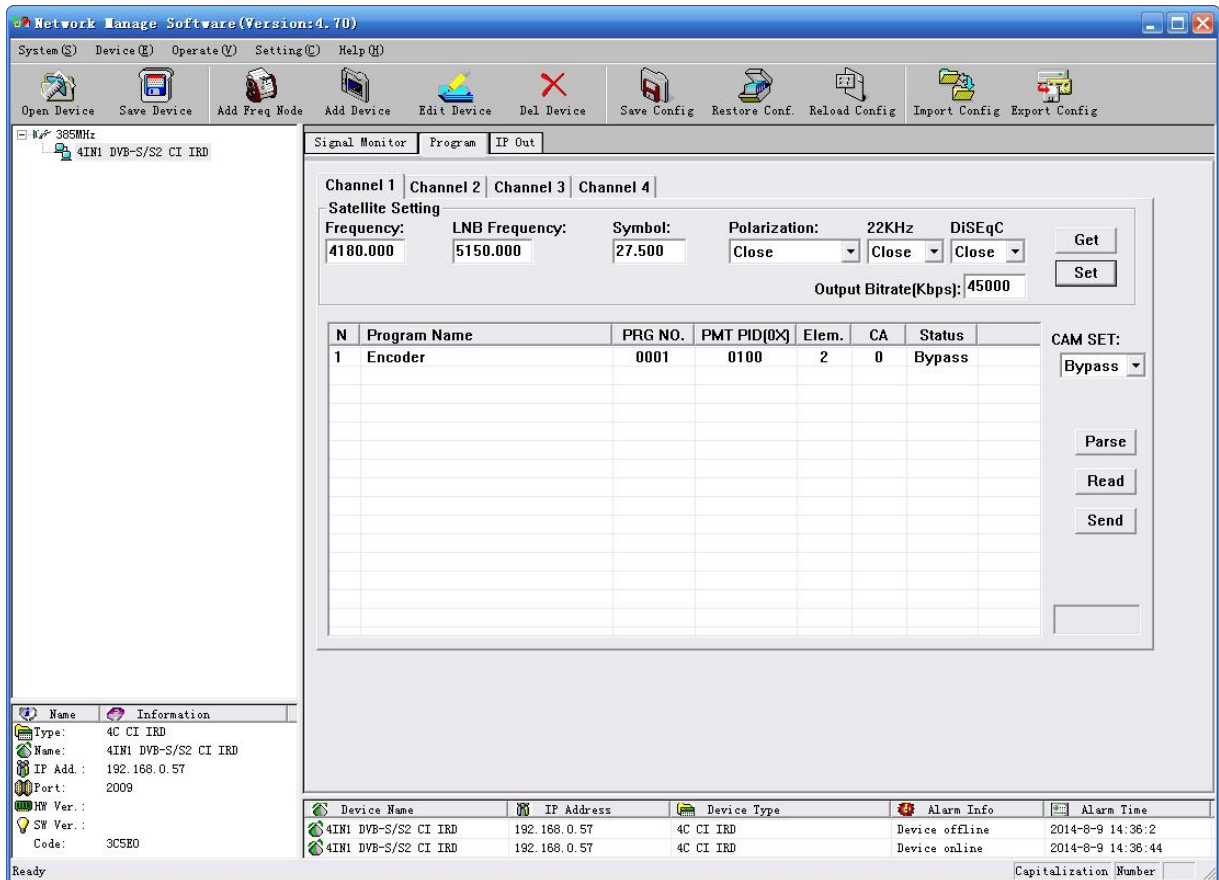
Channel	Program	BitRate	CAM	Lock	Signal
1	0	3.504	●	●	 16.66
2	0	3.504	●	●	 17.55
3	0	3.504	●	●	 17.86
4	0	3.504	●	●	 17.58

At the bottom left, there is a "Name" and "Information" section showing details for a device: Type: 4C CI IRD, Name: 41N1 DVB-S/S2 CI IRD, IP Addr.: 192.168.0.57, Port: 2009, HW Ver.: SW Ver.: Code: 3C5E0. At the bottom right, there is an "Alarm Info" table:

Device Name	IP Address	Device Type	Alarm Info	Alarm Time
41N1 DVB-S/S2 CI IRD	192.168.0.57	4C CI IRD	Device offline	2014-8-9 14:36:2
41N1 DVB-S/S2 CI IRD	192.168.0.57	4C CI IRD	Device online	2014-8-9 14:36:44

The status bar at the bottom shows "Ready" and "Capitalization Number".

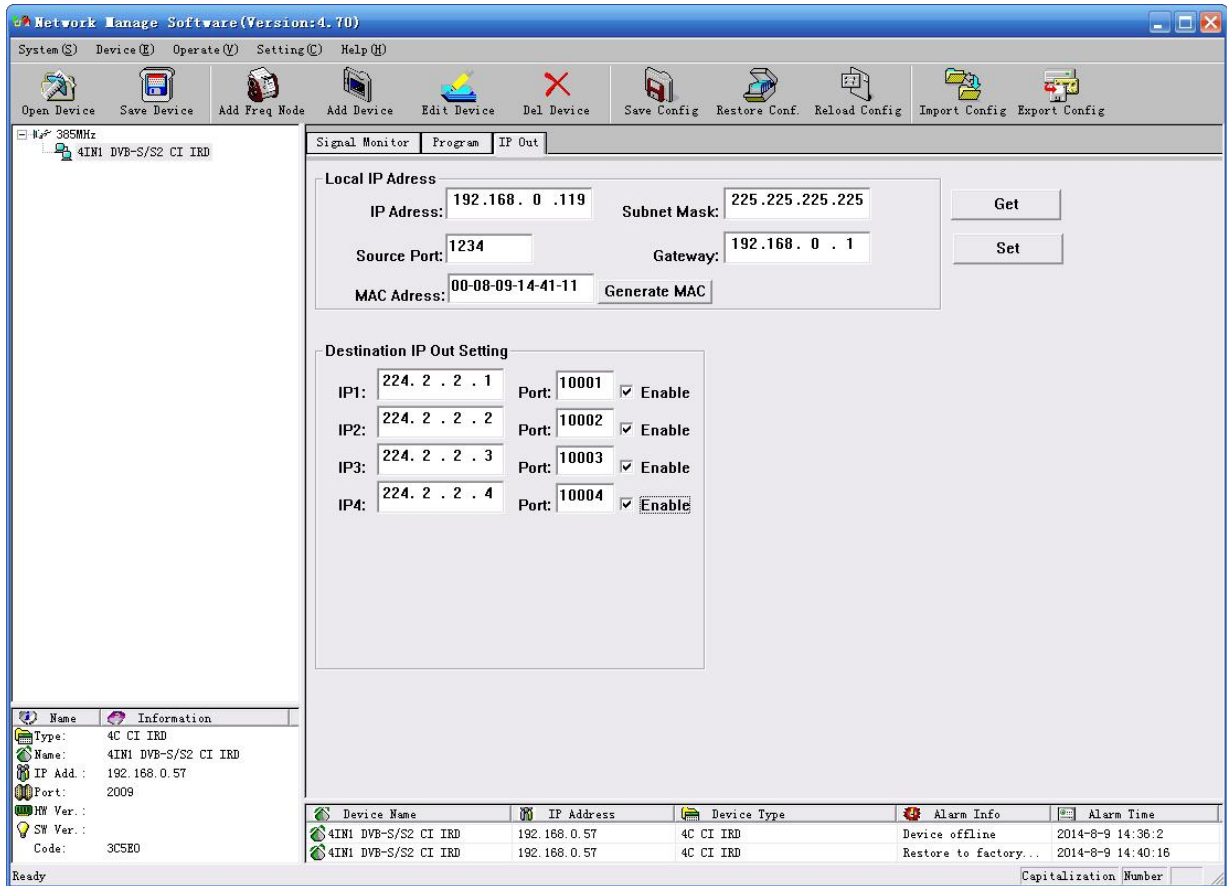
8.5.2 Program



“Get”: Read current config from the device.

“Set”: Confirm config and enable it.

8.5.3 IP Out



“Destination IP Out Setting”: set destination IP address and port.

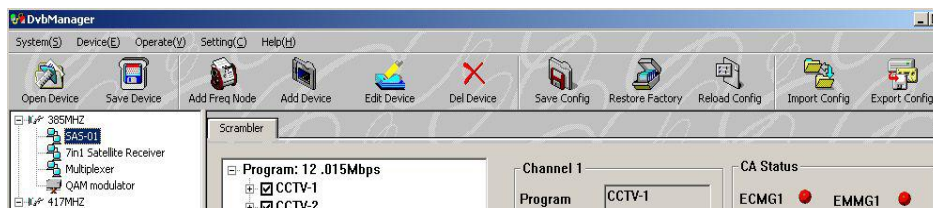
After choosing “enable”, the data port begins sending IP data to destination.

“Local IP Address”: set the source address of IP package and gateway information.

8.6 Public Function of NMS



Public function of NMS includes “Save Config”, “Restore Cong.”, “Reload Config”, “Import Config”, and “Export Config”.

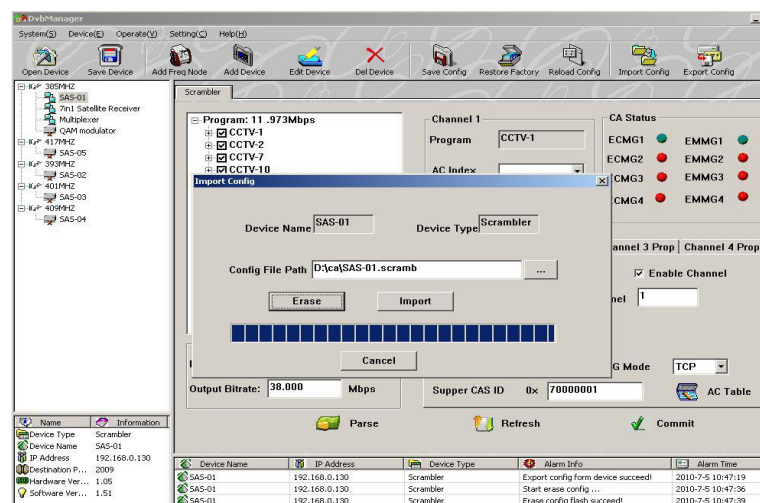


“Save Config”: After committing or confirming set configuration, click this button to save all configuration into “FLASH” (storage); you do this by front panel.

“Restore Cong.”: renew and start using the configuration. You can read the renewed configuration by clicking “refresh” or “parse” on operation interface. Please click “Save Config” if it needs to be saved.

“Reload Config”: reload and use the configuration saved in FLASH. This function is usually used after “import config”, and the new configuration is effective without restarting the device.

“Import Config”: import configuration of “export config” into FLASH; the imported config can be used after ‘reload config’ or restart the device.



First please choose the config you want to import, and click “Erase” to clear current config and then import config from FLASH. At this moment, the config cannot be used. You need restart

the device or click “Reload Config” to start new config.

“**Export Config**”: fetch the device’s configuration to local disk (computer). You can import this configuration when it needs to renew the configuration or to use a back-up device in future.

