



# **Digital TV Set-top Box USER MANUAL**

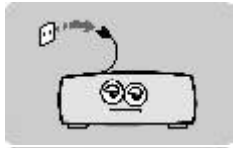
**Version: V2.0**

**INITEL TELECOMMUNICATIONS**

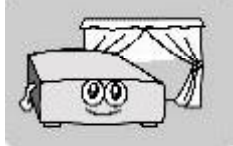
## Attention



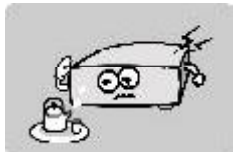
1. Do not take apart the machine privately, to avoid damaging the internal components or getting an electric shock.



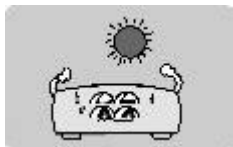
2. Unplug the power outlet if you won't use the machine in a long time.



3. Keep ventilation when working and avoid machines working under high-temperature.



4. Keep dry around the machines, to avoid any liquid flowing or dropping into the inner of the machine to cause short circuit or damage.



5. Do not put it near the heat sources, pay attention to dark, waterproof, moisture-proof, dust-proof.



6. Do not put heavy objects on the machines, to avoid damage.

### Please check the objects in the carton/box:

Items	Quantity
Set-top box	1 unit
Remote controller	1 pc
AV connect cable	1 radix
User manual	1 book
7# battery (Optional)	2 pcs

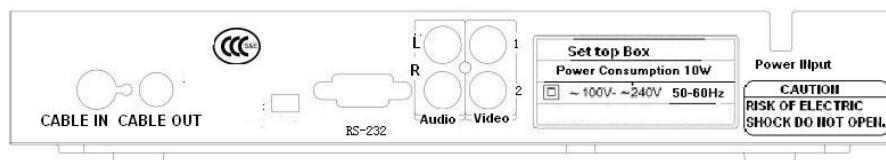
## 1. Brief Introduction

It adopts the latest decoder chip of sunplus, CA smart card control, full-featured infrared remote control, entire output of Chinese/English character display; large-capacity store programs, high-definition, high-quality audio and video output and so on. Feature comprehensive, easy to use, the signal stability.

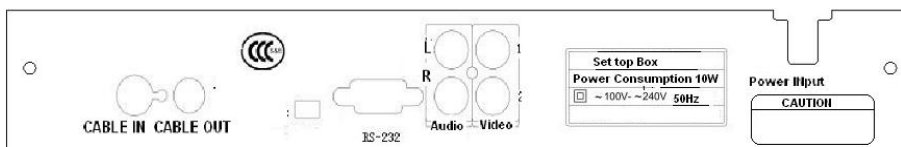
- ★ CA smart card authorized management
- ★ DC18V LNB voltage control option
- ★ Full-featured infrared remote control and press button to control
- ★ Full-featured Chinese/English Character output display
- ★ Programs display, signal strength direct and power off memory
- ★ Full featured program edit(move, delete, favorite setting etc.)
- ★ Left/Right single-channel, two-channel stereo output and mute control
- ★ AV audio and video, RF output (optional)
- ★ Video output standard (AUTO,PAL,NTSC) can be setting by manual/automatic
- ★ Fashion games
- ★ Chinese/English OSD for option
- ★ Energy saving design, power consumption: 10W
- ★ AC100V ~ 240V, 50Hz power broadband automatic protection
- ★ RS232 upgrade interface available

## 2. System connection

### 2.1 Rear panel 1



### Rear panel 2



Cable in: to connect digital signal

DC 18V: 0V/18V control switch

RS-232: RS-232 upgrade interface

Audio: STB left and right channel audio output

Video: STB Video output

Power Input: AC Power input.

Cable out: level output, to connect other set top box.

- 2.2 According to your TV set configuration, select the corresponding audio output modes: normal AV output. Connect to the corresponding interface on the rear panel, go along with next operation after confirm all is correct.
- 2.3 Use the cable which with direct IEC plug sending the signal to the STB signal input interface, double-check if the power supply such connections being in short circuit or open circuit, make sure all the connections and the grounding system are all right..
- 2.4 After whole system connect complete, check again to assure all connections are all right. Turn on the TV set and STB, switch the TV set to AV state, to enter into the digital world, to enjoy the real digital life.

### 3.Button Introduction

Before you enter into the menu, you should know the functions of the buttons on the front panel and the remote controller. It will help you to know well the menu and make your operation easy.

#### 3.1 Front panel 1



#### 3.2 Front panel 2



- ★ (1) Power switch: to control power on or off.
- ★ (2) (3) CH-/CH+: Used as program UP/DOWN button under normal playing mode; controls the cursor move up/down when in menu operation.
- ★ (4) MENU button: to enter system main menu under normal mode; when in menu operation, save and exit the current menu, and back to the top menu.
- ★ (5) OK button: to display program list under normal playing mode, act as confirmation in menu operation.
- ★ (6) (7) VOL-/VOL +: to increase or decrease the volume under normal playing mode; to control the cursor moving in menu operation; and used as fast turn over button in program list, transmitter edit or delete menu.
- ★ (8) LCD display: to displays the number of current channel.
- ★ (9) Indicator: light on green means signal be locked, and the red one is power indicator.

### 3. Button Introduction

#### 3.3 Remote control

##### ■ MUTE button

Press it: mute; re-press: quit mute.

##### ■ Power button

Standby button.(press it: standby; re-press: quit standby)

##### ■ ▲ / ▼ button

Used as program up/down button when no menu display; it control the up/down or parameter change in menu operation.

#### ◀ / ▶ button

To increase/decrease volume when no menu display; to control the cursor move left/right or change parameter in

#### ■ OK button

To display current program list or to confirm.

#### EXIT button

Exit current menu without saving.

#### MENU button

To enter into main menu when there's no menu displays.

#### Number 0 ~ 9

Input parameters or channel number.

#### INFO button

Display current program information and signal strength, signal quality.

#### FAV button

Press it: program list; re-press: the favorite program list; if no favorite will only displays the normal program list.

#### TV/R button

To switch the TV program to Radio program.

#### RECALL button

To switch current program to last program.

#### AUDIO button

To select audio channels output of current program.

#### Color button

It works on the corresponding function when menu operating.



cursor move

menu operation.

program saved,

## 4. Menu

### 4.1 Program setting

In normal televiue, press the **MENU** button on the remote controller, there will be the menu as below *Table 1* ; move the cursor to **Program setting**, clock on **OK** button enter the **Program setting** menu as below *Table 2*, use ▲▼ button to choose the function on this menu, and press OK button to enter the highlighted submen.

Table 1: Main menu



Table 2: Program setting menu



4.1.1 Channel Search

In **Program setting** menu, move the cursor to **Channel Search** item, Press OK button to enter the **Channel Search** menu, use ◀▶ to choose **Manual mode**, **Auto mode** or **Full mode**, in **Manual mode**, input the frequency and symbol rate, then press **OK** button to start the manual scanning, as below Table 3. And **Manual mode** is single frequency scanning, and **Auto mode** and **Full mode** can scan multiple frequency.

4.1.2 CH Manage

In **Program setting** menu, move cursor to **CH Manage** and press **OK** button to enter, there will be the menu as below table 4, use ▲▼ button to choose **TV Channel**, **Radio Channel**, **Delete All Channel**, press **OK** button to enter each submenu. In **TV Channel** and **Radio Channel** submenu, use ◀▶ button to choose **FAV**, **Skip**, **Delete**, press **OK** button to manage the TV channel or radio channel. You need to input the correct password when you delete program (Initial password: 000000).

Table 3 Channel Search



Table 4 CH Manage



4.1.3 Parental Lock

Choose **Parental Lock** in **Program setting** menu, press **OK** button to enter, input the parental lock password (000000), then press **OK** button to enter, there will be the menu as below table 5. There are 3 submenu: **TV Channel(S) Lock**, **Radio Channel(S) Lock**, **Modify Password**. In the **TV Channel(S) Lock** and **Radio Channel(S) Lock** submenu, showed as in table 6, press **OK** button to lock and unlock the TV or radio programs.

Table 5 Parental Lock



Table 6 TV Channel(S) Lock



4.1.4 Booking

Choose **Booking** in the **Program setting** menu, press **OK** button to enter the booking menu, there will be the menu as below Table 7, press **OK** button to read, red button to delete, **EXIT** button to return.

Table 7 Booking



Table 8 Switch Effect



4.1.4 Switch Effect

Choose **Switch Effect** in the **Program setting** menu, press **OK** button to enter the switch effect menu, there will be the menu as below Table 8, use ◀▶ button to choose Black Screen, Still Screen, Fade Effect, press **OK** button to save.

4.1.4 Sorting Method

Choose **Sorting Method** in the **Program setting** menu, press **OK** button to enter the sorting method menu, there will be the menu as below Table 14, choose **Sorting Method**, use ◀▶ to choose Default, Prog No., Prog Name, Free/Scram to sort; Choose **Sorting Order**, use ◀▶ to choose Ascending or Descending to sort.

4.2 EPG

In main menu, move cursor to **EPG**, press **OK** button to enter EPG menu, showed as in table 9, press yellow button to view the program list of one day before, press blue button to view the program list of one day later, press **INFO** button to view the program introduction.

4.3 STB Setting

In main menu, move cursor to **STB Setting**, press **OK** button to enter STB Setting menu, showed as in table 10, there are 6 submenu, Video, Audio, Factory Set, System Info, Signal Detect, Language.

Table 9 EPG



Table 10 STB Setting





### 4.3.1 Video

In **STB Setting** menu, move cursor to **Video**, press **OK** button to enter video menu, showed as in table 11, use ◀▶ to set the Transparency, Aspect Ratio, TV mode.

Table 11 Video



### 4.3.2 Audio

In **STB Setting** menu, move cursor to **Audio**, press **OK** button to enter audio menu, audio include TV Track and Radio Track. Use ◀▶ to set, press OK button to save.

### 4.3.3 Factory Set

Choose **Factory Set** in **STB Setting** menu, press OK button, pop up the password input box, input the correct password to enter the factory set menu, showed as in table 12, use ◀▶ to choose YES, then press **OK** button to resume the factory set.

**Notice:** You will lose all the information like password, CH No., FAV, LOCK, etc, after you resume to factory set.

Table 12 Factory Set



Table 13 System Info



### 4.3.4 System Info

Choose **System Info** in **STB Setting** menu, press **OK** button to enter the system info menu, showed as in table 13, and you can view the system information.

### 4.3.5 Signal Detect

Choose **Signal Detect** in **STB Setting** menu, press **OK** button to enter the signal detect menu, input the frequency and symbol rate to view the signal strength and signal quality.

### 4.3.6 Language

Choose **Language** in **STB Setting** menu, press **OK** button to enter the language menu, use ◀▶ to set the language.



#### 4.4 Amusement

Choose **Amusement** in main menu, press **OK** button to enter, there are 5 games, Box Man, Tetirs, Hit Rat, Gobang, Sudoku, choose what you like to play.

#### 4.5 Help

Choose **Help** in main menu, press **OK** button to enter, in Help menu, there are detailed information of the operation methods of Introduction, CH Manage, CH Setting, EPG, CH Switch, Volume.

### 5.Shortcut function key

#### 5.1 Channel List

Press **OK** button when no menu on the screen, there will be the Channel List menu as below table 14.

#### 5.2 Program Info

Press **INFO** button when no menu on the screen, there will be the Program Info menu as below table 15.

#### 5.3 Volume

Press **◀ / ▶** button when no menu on the screen, there will be the volume menu, press **◀** button to decrease the volume, press **▶** button to increase the volume.

#### 5.4 Mute

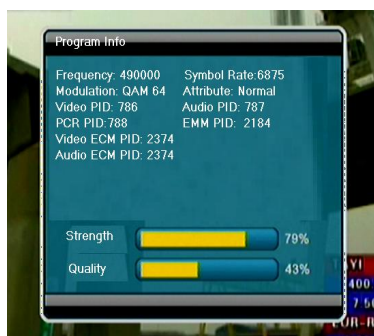
Press **Mute** button when no menu on the screen, there will be no audio output, repress to resume the volume.

Table 14: Channel List



Channel List	
001	CCTV-4
002	CCTV-9
003	CCTV-XIQU
004	BEIJING
005	\$ CCTV-3
006	\$ CCTV-5
007	\$ CCTV-6
008	\$ CCTV-8
009	CCTV- Phoen
010	\$ CCTV- News
011	CCTV- TV One

Table 15: Program Info



Program Info	
Frequency: 490000	Symbol Rate: 6875
Modulation: QAM 64	Attribute: Normal
Video PID: 786	Audio PID: 787
PCR PID: 788	EMM PID: 2184
Video ECM PID: 2374	
Audio ECM PID: 2374	
Strength	78%
Quality	43%

★Picture contained in this book are for reference only, technical parameters are subject to change without notice

## 6.Main Specifications

Input features			
Input frequency range	110 ~ 862MHz	Symbol rate range	3~6.952MBaud
Input impedance	75Ω	Input level	35 ~85 dBuV
Video features			
Decode format	MPEG- II	Bit rate	2 ~ 15Mbps
Output format	NTSC/PAL	Video output	1V±20mV(p-p)
Image resolution	720×576	Frequency feature	±0.8dB(≤4.8MHz)
Differential Gain	≤8%	Differential phase	≤8°
Light delay	≤50ns		
Audio features			
Audio output	L / R	Audio signal to noise ratio	≥70dB
Output type	RCA	Audio distortion	≤1.5%
Left right channel level difference	≤0.5dB(60Hz~18KHz)		
Signal Demodulating			
Demodulate mode	QAM 16/32/64/128/256	LNB voltage	0V / 18V
Power supply	AC100V~240V	Power Consumption	10W

## 7. Trouble shooting

Fault	Trouble shooting
No image, no sound	1. TV cable connection is not strong or wrong. 2.TV AV input reversed.
Have image, no sound	1. STB,TV on mute or low volume. 2. the channel set up wrong, or audio cable connect wrong.
Only channel number	1.Nosignal input 2. the current program parameters have changed.
STB locked light flashing or image mosaic	1.The signal is too weak, pls check the signals connection status. 2.Effected by bad weather of rain, snow etc.
Screen prompts no smart card or expiration	Smart card insert improperly or wrong direction, or the card purchased program expires.