

Contents

1. Safety/Precautions	2
1.1. Safety	
1.2. Precautions	
2. Check Point before Use	3
2.1. Accessories	
3. Controls/Functions	4
3.1. Front Panel	
3.2. Rear Panel	
3.3. Remote Controller	
4. Operation	8
4.1 Menu Map	
4.2 Getting Start	
4.3 Channel Editing	
4.4 System Setup	
4.5 Preference	
4.6 Factory Set	
4.7 Software Update	
4.8 Setting Timer	
4.9 Other Function on Remote Controller	
5. Trouble Shooting	22
6. Specifications	23

1.1 Safety

- Be sure to read the user's manual before starting the operation of the unit.
- Do not touch the power cord with wet hands as it may cause electric shock.
- Never open the cover. It is very dangerous to touch the inside of the unit due to possible electric shock.
- Place the unit in a well ventilated and no-heat environment.
- When you do not use this unit for a long time, make sure that power cord is pulled out from the outlet. Also do not use a damaged power cord as it may cause fire or electric shock.
- A professional installation is required. If reception is interrupted, contact your local service center.

1.2 Precautions

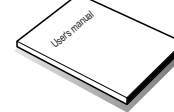
When installing the unit

- Install the unit horizontally. An uneven installation may cause the unit to be damaged.
- Do not put heavy items such as a TV on the unit. That may cause the unit to be damaged.
- Do not leave the unit where the water drops or splashes.
- Do not put water holding items such as vase on the unit.
- The socket-outlet shall be installed near the equipment and shall be easily accessible
- The HSC-1170NA should be installed 10cm away from a wall to allow for the Power Switch and Power Lead on the back panel
- Do not install the unit:
 - Where it is subject to vibrations
 - Where it is exposed to direct sunlight
 - Where there is humidity
 - Where the temperature is too high or too low.
 - Where there is no ventilation
- Moving the unit to a hot area from a cold one will cause condensation.
- Do not operate the unit for one or two hours or until it has dried completely.

2.1 Accessories

Accessories of the Unit

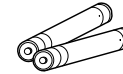
User's manual : 1



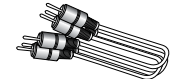
Remote control Unit : 1



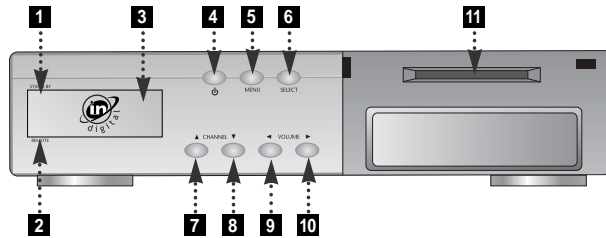
Batteries (AAA type) : 2



RCA video/audio cable : 1

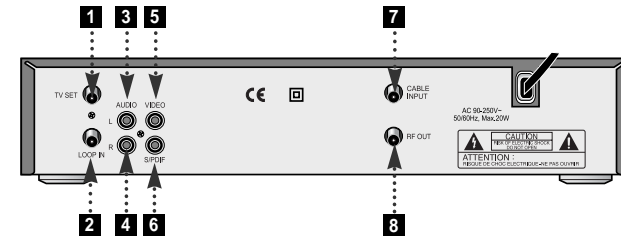


3.1 Front Panel



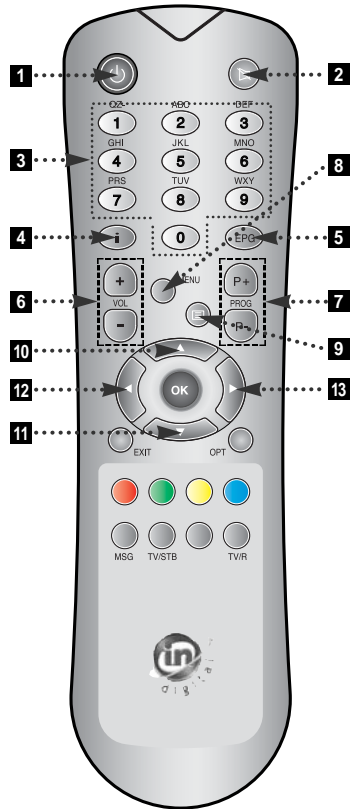
- 1** Standby LED : Turn on red while in the "standby mode" and turn off the red light while in the "power on mode".
- 2** Remote Control indication light : Turn on Green LED while Power on mode and Flashes Green LED when receiving data from Remote controller.
- 3** Remote Sensor : Receives the infrared signal from remote control unit.
- 4** Power : To switch the receiver in "standby mode" or in "power on mode".
- 5** Menu : To launch or terminate the menu application.
- 6** Select : To activate a highlighted item or go to next level on hypertext menu or confirm the user's action.
- 7 - 8** CH. (▲/▼) : To change channel or cursor position on the application screen.
- 9 - 10** Vol. (◀/▶) : To adjust the volume level or change the value of an item with preprogrammed values.
The Key Vol_dn (◀) can be used as a backspace to cancel the numerical input.
- 11** Smart Card Slot : Insert a smart card fully into the slot.

3.2 Rear Panel



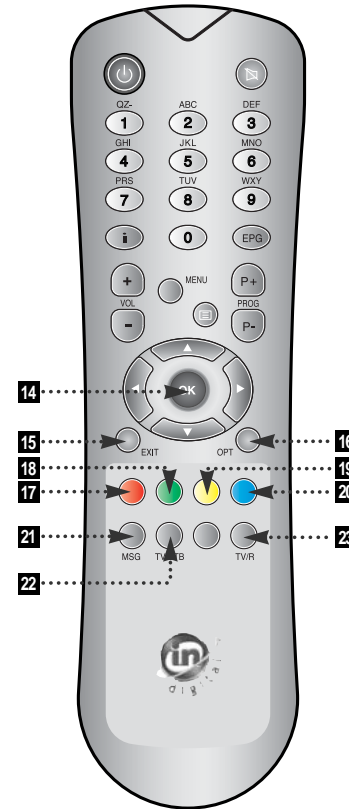
No.	Name	Connector	Function
1	TV SET	IEC 169-2 male	Output to TV
2	LOOP IN	IEC 169-2 female	Input from terrestrial antenna
3	AUDIO L	RCA cinch	Left audio output
4	AUDIO R	RCA cinch	Right audio output
5	VIDEO	RCA cinch	Composite video output
6	S/PDIF	RCA cinch	Digital Audio output
7	CABLE IN	IEC 169-2 female	Cable signal input to digital tuner.
8	RF OUT	IEC 169-2 male	Loop-through output from digital tuner.

3.3 Remote Controller



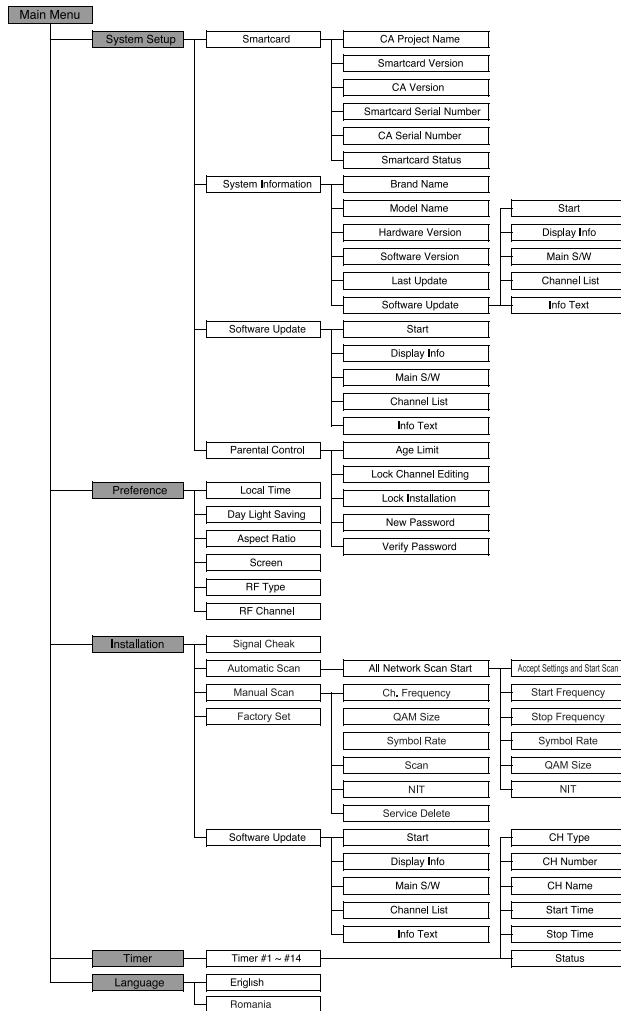
- 1** POWER : To switch into 'standby' or 'power on' mode.
- 2** MUTE : To turn the sound on/off.
- 3** Numeric Keys(0-9) : To select channels and input of channel numbers or characters.
- 4** INFO. : To display the information of the current channel.
- 5** EPG (Electronic Program Guide) : To watch program information.
- 6** VOLUME : To adjust the volume level.
- 7** PROGRAM : To change channel.
- 8** MENU : To enter the main menu.
- 9** TELETEXT : To see Teletext Service Data.
- 10 - 11** Up & Down : To move the cursor position on the application.
- 12 - 13** Left & Right : To change the value of an item with preprogrammed values.

3.3 Remote Controller



- 14** (OK) : To select an item or to confirm a menu.
- 15** EXIT : To return to previous status or menu.
- 16** OPT : To change the audio track, stereo/mono mode.
- 17** RED : To see Favorite channel list. To set up favorite in the Channel list menu.
- 18** GREEN : To lock channel in the Channel list menu.
- 19** YELLOW : To see Channel list(All list). To move a channel from in the Channel list menu and Favorite list menu.
- 20** BLUE : To see Channel list (Alphabet list). To delete a channel from in the Channel list menu and Favorite list menu.
- 21** MSG(Message) : To see your mail message.
- 22** TV/STB : To toggle the TV output source between the satellite input and UHF/VHF antenna input.
- 23** TV/R : To switch between the TV and radio channels.

4.1 Menu Map



4.2 Getting start

1. Signal Check

You need to position your network correctly for reception of the best signal.

- ① Press MENU key and position the cursor on Installation column with or and press .
- ② By using or , select 'Signal Check' and press .



Level	Indicating selected network signal strength level.
Quality	Indicating signal to noise ratio.

- ③ Select the channel you want with or .
- ④ When the channel are selected, you check the reception status of the signal. If the reception signal status is bad, adjust antenna to get the following result.

Tuner	OK.
Level	Over 30%
Quality	Over 10%

4.2 Getting start

2. Automatic Scan

After finishing 'Signal Check', execute 'All Network Scan' at the 'Automatic Scan'. Then you can get all channels in the pre-programmed channels.

This function can also be used to get the latest channel data while receiver is in use. Through this function, the receiver searches for all the available program saves them in the memory.

- 1 Press MENU key and position the cursor on 'Installation' column with or and press .



- 2 Select 'Automatic Scan' with or and press .
- 3 Select 'All Network Scan' and press .
- 4 If you want to get all channels in the pre-programmed channels, then select 'Accept setting and start scan' and press .
- 5 And if you want to edit the 'Channel', you can set the 'Start Frequency', 'Stop Frequency', 'Symbol Rate', 'QAM Size', 'NIT' for the selected Channel with or . After entering all values of the channel parameters, move to 'Accept setting and start scan' with or and press for storing all the entered channel data.

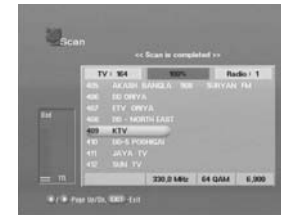


4.2 Getting start

3. Manual Scan

After checking 'Signal Check', when necessary, you can edit parameters of certain channel and scan them.

- 1 Press MENU key and position the cursor on Installation column with or and press .
- 2 Select 'Manual Scan' with or and press .
- 3 Select the 'Ch. Frequency' that you want to scan with or .
- 4 Move to 'QAM Size' with and set the proper value for the selected Channel with or .
- 5 Select 'Symbol Rate' with and set the proper value for the selected Channel with or . And if you want to add the new 'Symbol Rate', enter the symbol rate with numeric keys.
- 6 Select the 'NIT' with and set the proper value for the selected Channel with or .
- 7 After entering all values of the channel parameters, move to 'Scan' section(column) with or and press for storing all the entered channel data.
- 8 As a result, the first service of scanned channel will be displayed.



***Note :** If the scan fails, please check whether your entered values are correct or not and the signal reception sensitivity is good or bad.



- 9 If you want to delete all service of the selected Channel then select the channel that you want to delete.
- 10 Move to 'Service Delete' section(column) and press .

***Note :** When the menu asks you to confirm the deletion, press if you want to delete it or press EXIT key if you want to void the deletion.

4.3 Channel Editing

1. Favorite Channel

You can set up favorite channel lists as you want.
For example, if you want to set favorite channel lists as following.

- ① Press the 'BLUE' or 'YELLOW' key.
- ② Select 'RTPI' channel with  or .



- ③ Press the 'RED' key.
- ④ You can see the channel list of your favorite channel.

2. Channel List Mode

Using this function, you can see variant channel lists which may enable you to edit and select channels more conveniently.

Favorite Mode

If you set up favorite channel lists as the previous section, you can use them as following.

- ① Press the 'RED' key.
- ② You can see only favorite channels are listed.

Alphabet Mode

This function is useful when you search specific channel among the lists of thousands channels.

- ① Press the 'BLUE' key
- ② You can see channel list in alphabetical sequence.

4.3 Channel Editing

All list Mode

Using this function, you can see the channel list in numerical order.

- ① Press the 'YELLOW' key.
- ② You can see the channel list in numerical order.

3. Lock Channel


This menu enables you to prevent children from viewing programs unsuitable for their age.

- ① Select the 'Channel list' or 'Favorite channel' mode.
- ② Select the channel you want to lock and press the 'GREEN' key.
- ③ Press 'EXIT' key to finish the progress.
- ④ Without entering your password, you cannot watch a locked channel's program.
- ⑤ If you want to cancel the channel lock, go to the channel list and select the channel and press 'GREEN' key.

4.4 System Setup

1. Setting Age Limit

This sub-menu allows you to set the age for parental locking and protect children from viewing programs unsuitable for their age.

- ① Press 'Menu' key and 'System Setup'.
- ② Select 'Parental Control' and press .
- ③ Enter 4-digit password.

*** Note : The default password is '0000'.**



4.4 System Setup

- ④ Select 'Age Limit'.
- ⑤ Select age you want.

* Note : 'Age limit' can be applicable only for the signal which carries age limit information.

---	No age limit.
8	Without entering password, programs are restricted to those who are over 8 years old.
12	over 12 years old.
15	over 15 years old.
18	over 18 years old.

2. Security Check (Lock Channel Editing & Lock Installation)

* Note : The default password is '0000'.

ON	When you process with 'Channel Editing' or 'Installation' of Main Menu, your receiver will ask for password. If you enter wrong password, you cannot proceed further.
OFF	You do not enter password during your processing.


3. Password Change (New Password & Verify Password)

* Note : The default password is '0000'.

* Note : When you forget your new password, please consult the shop where you bought the receiver or the nearest dealer.

4. System Information

You can check the current information about your receiver such as receiver's software version and hardware version.


- ① Press 'Menu' key and 'System Setup'.
- ② Select 'System Information' and press .



4.4 System Setup

5. Smartcard

You can check the Smartcard information such as CA Version, serial number and Smartcard status.





- ① Press 'Menu' key and 'System Setup'.
- ② Select 'Smartcard' and press .



4.5 Preference

1. Local Time

You can set local time of your receiver.

- ① Press 'Menu' key and 'Preference'.
- ② Select 'Local time' with  or .
- ③ Change local time with  or .

* Note : Without the local time setting, 'TIMER' function does not work.

2. Day Light Saving

* Note : Without the local time setting, this function does not working.

ON	Set for daylight saving function activated. The current time automatically moves one hour ahead.
OFF	Set for daylight function deactivated. The current time automatically moves one hour behind.

4.5 Preference

3. Aspect Ratio

This sub-menu allows you to select your TV aspect ratio to 4:3 or 16:9 according to your wishes.

4 x 3	When your TV is 4:3.
16 x 9	When your TV is 16:9.
Auto	Automatically change demand on stream.

4. Setting Screen

You can select the satellite input signal display mode.

P/S	When you set screen display boundary from Pan/Scan data of Satellite input signal. (For signal for 16 X 9 program)
L.Box	You can watch 16 X 9 ratio screen by reducing original size vertically and horizontally.








- * Note : 1. If you select 'L.Box', the screen might be distorted. Upper and lower part of the screen will be blocked with black stripes.
- 2. 'Screen' function is helpful when receiving 16 X 9 signal with TV of 4 X 3 format.

5. Setting Output Channel no. of RF Modulator

You can select the channel number (3, 4 or 21 to 69) for the RF modulator output.

4.6 Factory Set






The status of the receiver will return to factory default parameters by using this function.

- ① Press 'MENU' key and position the cursor on 'Installation' column with  or  and press .
- ② By using  or , select 'Factory Set' and press .
- ③ When the menu asks you to confirm the reset, press  key if you want to reset or press EXIT key if you want to void the reset.



4.7 Software Update

On Air Download function enables user to download and update new program from Cable.

- ① Press 'MENU' key and position the cursor on 'System Setup' column with  or  and press .
 - ② Select 'System Information' and press .
 - ③ Select 'Software Update' and press .
- (MENU → System Setup → Software Update & MENU → Installation → Software Update directory is same function.)



4.7 Software Update

- ④ To start receiving the data through the cable press **OK** on 'Start'.
- ⑤ It takes a few minutes to search the group of programs & downloaded channel. Move to next Menu if you succeed in searching the necessary information.



4.8 Setting Timer

You can pre-set the on/off time of your receiver. During your absence, you can record programs on your VCR.

- ① Press MENU and Timer with **TV** or **RADIO** key.
- * Note : Without the local time setting, this 'TIMER' function does not work.
- ② Press **TV** or **RADIO** to select 'Timer #(number)' you want to set and press **OK** key.



- ③ Determine 'CH. Type' by selecting 'TV' or 'RADIO' with **TV** or **RADIO** key.
- ④ Select 'CH. Number' with **TV** or **RADIO** key and enter channel number with **TV** or **RADIO** key.
- ⑤ Enter 'Start Time' for your receiver power-on.
- ⑥ Enter 'Stop Time' for your receiver power-off.
- ⑦ Select 'Status' and set 'No/Once/Daily/Weekly/Weekdays' with **TV** or **RADIO** key.
- * Note : 1. Without .STATUS. being actuated (ON), Timer does not work.
2. If Prior time than current is entered, Timer does not work.

4.9 Other Function on Remote Controller

1. TV / RADIO switching

You can use this menu when you change a TV channel to a Radio channel or vice versa.

- ① Press 'TV/RADIO'.
- ② When listening a radio channel, 'r001' will be displayed on the front panel.



2. TV/SAT switching

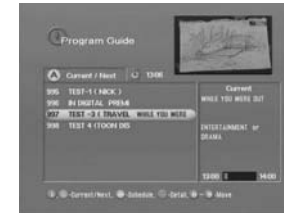
This function is used for receiving a signal through the RF modulator.

If you press 'TV/SAT' key, then the signal reception path will change to RF Modulator.

3. EPG (Electronic Program Guide)

You can check the channel information on the channels of the transponder you are watching.

- ① Press 'EPG' key, the following menu will be displayed.



- * Note : 1. You can check local time, channel name, and other brief information on the current program.
- 2. If you didn't set local time under 'System Parameters' section, the EPG function may not work properly.

4.9 Other Function on Remote Controller

3. EPG information is delivered by cable from service providers.
If the channel does not carry any signal on the EPG data, this function may not work properly.

② Select Channel with  or .

Then you can see current or next program information of the selected channel.

4. Subtitle/Audio

You can adjust the subtitle and audio condition/status of the current channel.

① Press 'OPT' and subtitle and audio related window will be displayed on the screen.



The contents of each parameter are as follows:

Track	(Audio track#) of (all tracks available in this program)
Mode	Stereo → Mono Left → Mono Right
Subtitle	(Subtitle language#) of (all subtitle language available in this program)

* Note : These subtitle and audio parameters are workable only when the receiving channel supports these functions.

4.9 Other Function on Remote Controller

5. Channel / Information

Brief information is displayed, such as current channel type, name, local start/end time, guide information, current time, favorite channel, Audio mode and Audio ID.

① Press 'i', then the information bar will pop-up.



* Note : If you have no information :

- Check your local time setting is correct.
- Information is not sent by the channel provider.

Problem	Possible Cause	Solution of the problem
Forget your secret PIN code.		Contact your Service Provider.
Time Setting is wrong	The time is not set properly.	Adjust the Time on the Menu.
No display LED on the front panel / No power supply.	Power cord not plugged in correctly.	Power cord plug in correctly.
No picture on the screen.	Receiver in Standby mode.	Set the receiver to [ON].
	AV Output not connected tightly to video output of TV.	Check the connection and correct.
	Incorrect channel or video output selected on TV.	Check channel and video output and correctly.
No Sound	Audio cord connected incorrectly. Volume level is 0. Muting active.	Check connection and correct. Increase volume on TV set. Press the MUTE key.
Remote Controller dose not operate correctly.	Incorrect operation Batteries dead or inserted incorrectly.	Point remote control Towards the receiver. Replace batteries or insert correctly.
Poor picture quality.	Signal strength to low.	Check the signal strength in the [Installation] menu, check the signal cable.
The smart card is not working.	The smart card is not installed properly.	Check that the smart card has been correctly inserted.

System capabilities	Fully DVB-C(QAM) system	
	Connector	IEC 169-2 female
	Input Frequency range	47 ~ 862MHz
	Signal level	-20dBmV ~ +25dBmV
Tuner input	Input Impedance	75 ohm
Demodulator	Modulation Format	64, 128, 256 QAM
	FEC	Annex A & C
	Front end	QAM
	Symbol rate	7Msps Max.
	IF Band width	8MHz typ.
System resource	Processor	32bit processor (81MHz)
	SDRAM	8Mbyte
	FLASH	4Mbyte
	EEPROM	2Kbyte
Video Decoder	MPEG 2	Main Profile @ Main Level
	Data Rate	up to 15M bits/s
	Resolution	720 X 576
	Video format	PAL
	Aspect Ratio	4:3, 16:9
MPEG Audio	MPEG 1 layer 1 & 2	
	Type	Mono, Dual mono, Stereo, Joint Stereo
	Sampling rates	32, 44.1 and 48 KHz
Remote control	Code	NEC-IR
	Operating condition	up to 7 Meter

Specifications

Power supply	Power consumption	20W
	Supply voltage	90V ~ 250V
	Supply frequency	50Hz ~ 60Hz
Rear Panel connectors	RCA Connector	CVBS Video output (1cinch)
		Audio L/R (2cinch)
		Digital Audio (1cinch)
	Digital tuner input	IEC 169-2 female
	Loop-through Digital tuner	IEC 169-2 male
	Terrestrial Antenna input	IEC 169-2 female
	RF modulator output	IEC 169-2 male
Physical Specification	Size (W X H X D)	260 X 53.5 X 228(mm)
	Weight (Net)	2.3Kg

CERTIFICATE OF WARRANTY

This certificate of warranty should produced for servicing under the terms of the warranty.

CONDITIONS OF WARRANTY

1) Within one year from the date of purchase, if any Component(s) is found to be defective due to faulty workmanship or defective material will be made and repairs executed free of charge and defective part replaced.

Parts repaired or replaced are under Warranty throughout the remainder of the original warranty period only. Repairs under warranty may also be carried only by authorized service centres or the authorized local cable operator.

2) This warranty does not cover any form of damage resulting from accident, misuse, application of incorrect voltage or any use contrary to the operating instructions supplied along with the equipment.

3) No responsibility will be accepted for damage arising out of unauthorized modification or alterations of any nature made to the Digital Set Top Box.

4) No responsibility will be accepted for damage or loss incurred during transit of Digital Set Top Box.

5) This warranty is not valid if the serial number of the Digital Set Top Box has been deleted, defaced or altered.

6) This Certificate of warranty should accompany the Digital Set Top Box if service under warranty period is required to be carried out at the authorized Service Centres.

7) The STB conforms functionally to the appropriate BIS standards.

WARRANTY CARD

Customer Details

Name: _____

Invoice Number & Date: _____ □□/□□/□□□□

Purchase Date:

□□/□□/□□□□

Installation Date:

□□/□□/□□□□

Digital Set Top Box Model & Type:

Techno Trend IRD C2802-NG

IMCL Model No. Indigi Box AT01

IncableNet In Digital Franchisee / Independent Cable Operator's Details

Signature: - _____

Date:-

Franchisee / Cable Operator

www.indigital.co.in