USER MANUL FOR IR-7000

See the world in its true color

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USER MANUAL

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TECHNOSAT
DIGITAL SATELLITE RECEIVER
IR-7000

Contents

Warning

Note: This equipment has been tested and found to comply with limit
for a Class B digital device, pursuant to Part 15 of the FCC
Rules. These limits are designed to provide reasonable
protection against harmful interference in a residential
installation, This equipment generates, uses and can
radiate radio frequency energy and, if not installed and used
according with the instructions, may cause harmful interference
to radio communications. However, there is no guarantee
that interference will not occur in a particular installation, If this
equipment does cause harmful interference to radio or television
reception, which can be determined by turning the equipment off
and on, the user is encouraged to try to correct the interference
by one or more of the following measures:

-    reorient or relocate the receiving antenna
-    Increase the separation of between the separation and receiver.
-    Connect the equipment into an a circuit different from that
to which the receiver is connected.
-    Consult the dealer or an experience radio/TV technician for help.
Any changes or modifications not expressly approved by the party
responsible for compliance could void the user's authority to
operate the equipment.

Safety Precaution

The IRD is complied with international safety standards. Please read these simple guidelines carefully before using this device

Power Supply

80-125V AC 50-60Hz

Do Not Dismantle

Do not attempt to dismantle the IRD. Opening the cabinet may cause malfunction or electric shock.

Avoid Overloading!

Do not overload a wall outlet, extension cord or adapter as this may result in fire electric shock.

Avoid Extreme Humidity!

Do not install the IRD in an extreme humid place. The STB shall not be Exposed to dripping or splashing and that no objects filled with liquids, Such as base, shall be placed on the apparatus.

CLEANING!

Disconnect the STB from the wall outlet before cleaning. Use dry cloth to Dust the STB.

Avoid Object and Liquid Entry

Do not insert any kinds of small objects, such as a coin, into the IRD as it may result in short circuit.

Ventilation Openings and Installation

The IRD'S ventilation openings prevent itself from overheating. Do not block them as it may cause malfunction. Put the IRD on a firm and flat surface. Avoid extreme heat and direct sunlight.

Power supply

Do not defeat the safety purpose or the polarized or grounding-type plug. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
Protect the power cord from being walked on or pinched particularly at Plugs, convenience receptacles, and the point where they exit from the apparatus.

Safety Precaution & Unpacking

Location

Place the STB indoor in order not to expose to lightening, rain or sunlight Unplug this STB during lighting storms or when unused for long periods of time.

Maintenance

Use spare parts and accessories only from the original manufacturer.

Service

Refer all servicing to qualified service personnel. Servicing is required when the STB has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been soiled or objects have fallen into the STB, the STB has been exposed to rain or moisture, does not operate normally, or has been dropped.

Your package contains the following items.

IRD

Remote Control Unit   User's Manual   RCA cable

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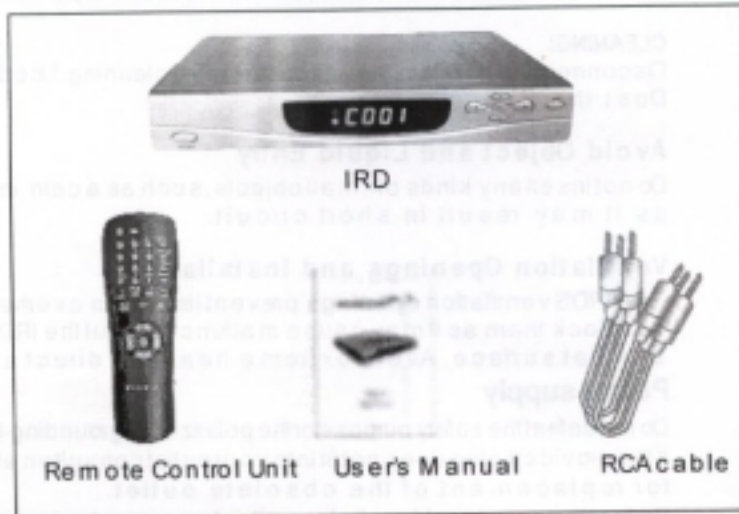
Your IRD

Front Panel Layout
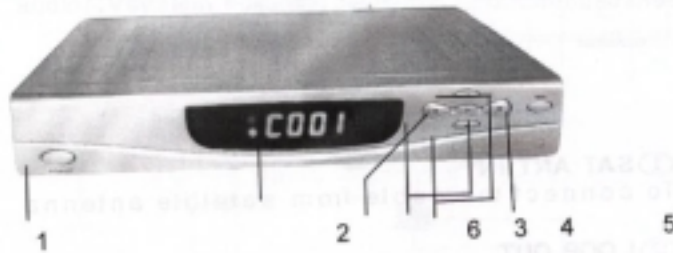
①**Power On/Off Key**
To turn on or off the IRD

②**Display Window**
Red indicator lights up when power turn on.
Green indicator lights up when channel is locked.
Four segment LED display indicates channel number, error
Message, RCU commands etc.

③ **◀VOL & VOL▶**
To adjust volume level or move cursor in MENU.

④**CH▲ & CH▼**
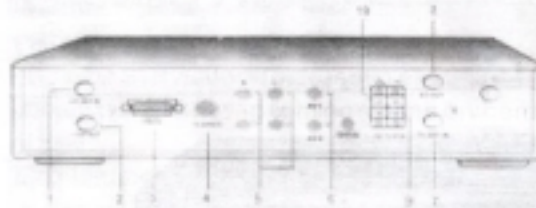To surf channel or scroll cursor in MENU.

⑤**MENU**
To display the main menu.

⑥ **OK**
To display TV or radio list. In MENU status, press this key
to confirm selection.

Your IRD

Rear Panel Layout

① **SAT ANT IN**
To connect the cable from satellite antenna

② **LOOP OUT**
To connect another satellite receiver.

③ **RS-232**
To connect PC for software download

④ **S-VIDEO**
T0 connect S-VHS jack of TV or VCR.

⑤ **AUDIO(R/L)**
Audio signal output from IRD to TV or VCR.

⑥ **VIDEO**
Video signal output from IRD to TV or VCR.

⑦ **TV ANT IN**
To connect terrestrial cable or an external RF input.

⑧ **RF Output**
RF Signal output from IRD to TV or VCR.

⑨ **0/12V**
For an external LNB switch

⑩ **+5V Pulse out**
To supply 5V pulse signal.

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Your IRD

Connection

The following picture shows how to connect cable from LNB, TV and IRD. There are several ways of connection between IRD and your existing audio/TV system. Following diagram is recommended for best solution.
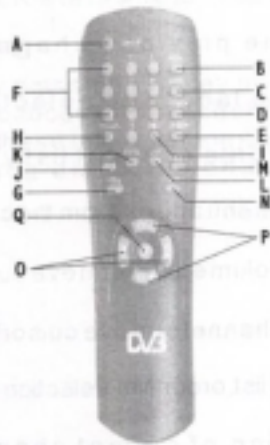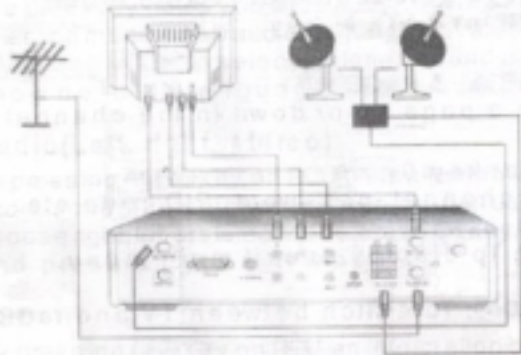
Remote Control Unit (RCU) Layout

The various keys function as follows:

1. **On/OFF**: To Switch between On and Standby mode

2. **MUTE**: To stop or recover audio output.

3. **Audio**: To select different audio mode with ◄VOL and VOL► key.

4/5. **PAGE▲ & PAGE▼**
To move a page up or down in the channel list.

6. **Number key 0~9**
To input channel, password, PID code etc.

7. **MENU**: To display or exit main menu.

8. **TV/RADIO**: To switch between TV and radio mode.

9. **OSD**: To display detailed information of current channel.

10. **EPG**: To display Electronic Program Guide.

11. **RECALL**: To return to the previous channel.

12. **LANG**: To display audio language selection menu.

13. **FAV**: To display the favorite channel list you select.

14. **EXIT**: To return to the previous menu and exit from the current mode.

15. **◄VOL&VOL►**: To adjust the volume level or move cursor in menu

16. **CH▲&CH▼**: To select the channel or move cursor in the menu.

17. **OK**: To display the TV or audio list, or confirm selection in the menu.

18. **ƒ**: To display information of current channel.

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Advanced Features

Information Box
Information Box shows you current channel number, name, audio mode, etc. It is displayed for 3 seconds when you change channels. You can also view the information box by pressing ⎸ key on RCU.

Audio language selection
The LANG key helps you trace audio. It will display audio language selection menu if multi audio language is available, then user can use ◄VOL and VOL► to select preferred sound track. Otherwise it will show no multi language audio available.

Audio(Left, right, stereo)
By pressing AUDIO key on RCU, a small window will appear showing audio mode of current channel. Then you can use ◄VOL and VOL► to choose right, left or stereo mode. Press OK key to confirm selection, and press exit to exit window.

OSD
By pressing OSD key on RCU, an information box will appear which Will shows you detailed info about current channel such as Channel name, audio/video PID, TP frequency, symbol rate, Polarization, 22K status, etc. Press OSD key again to exit.

EPG
By pressing EPG key on RCU you can view what program is being broadcasted on each channel, and a brief introduction of the program if these info is transmitted by the operator. Please refer Electronic Program Guide chapter for how to use this function.

Using the Menu

By pressing the MENU button on RCU or on the front panel, the following main Menu will be displayed. There are four items: Program, installation, System Setting and info which you can use ◄VOL and VOL► key on RCU to move and select. Sub menus stick to each item (Please refer menu map as well), use CH▲ and CH▼ to choose sub items.

Program

This submenu includes four selections. Choose these items Accordingly to view, edit all TV and radio channel stored.

Installation

Please note there is no programmed channels in a new IRD. For first time installation, change parameter according to the antenna and LNB you installed, then do a manual or auto search. If you want to erase all settings you made, please select factory default.

System Setting

Includes menu language select, RF Setting, Audio Select, GMT time set, etc.

Info

Displays all information about IRD. Current channel info, IRD Status, CA Status, loader status etc.

Program	Installation System Setting Info
TV Services	
Radio Services	
Organizing Services	
Advanced Search	
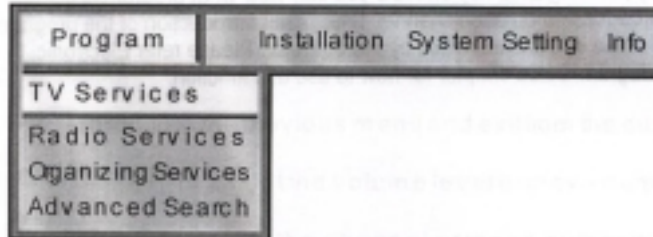
U si ng the M enu

Program

TV Services

Select TV Services and press OK, TV program list will be displayed. Some icons such as $(scrambled) and 🔒 (locked), or ♥ (favorite) will be displayed with channel name together if you have edited them. Use CH▲ and CH▼ to select channel one by one, or use PAGE▲ and PAGE▼ for quick page scroll. Press OK to confirm, then Press exit to exit.

TV Program		
1 ART	$	
2 ART	$	
3 ART	$	
4 TCM	$	
5 TCN	$	🔒
6 Star	♥	$
7 [V]	♥	$ ·
8 NaGe	♥	$
9 Star	♥	$
10 Zee TV	$	
11 Zee TV	$	
ARAB2A/3A		

Radio Services

Select Radio Services and press OK, Radio program list will be displayed. Some icons such as $(scrambled) and 🔒 (locked), or ♥ (favorite) will be displayed with channel name together if you have edited them. Use CH▲ and CH▼ to select channel one by one, or use PAGE▲ and PAGE▼ for quick Page scroll. Press OK to confirm, then Press exit to exit.

Radio Program	
1 Dubai	
2 Shajar	
3 Baharin	
4 MBC	
5 Syria	🔒
6 FM	♥
7 IRIB	
8 LBC	
9 Ajman	
10 Zee	$
11 Zee	$
ARAB2A/3A	

Organizing Services

This model allows you to Delete, Move and Lock TV or Radio program, and select favorite channels. You can also sort and organize your channel list by using Sort button.

Delete

You can delete unwanted channels.

Move cursor to Delete button. Press OK button to jump into information box. Select a channel you want to delete by using CH▲, CH▼, PAGE▲, PAGE▼. Press OK to confirm, You can see a symbol √ displayed in line.

Press OK again if you decide not to delete this channel, the symbol √ will disappear.

If you want to delete more channels, repeat the above steps. Then press EXIT to exit from information box, It will highlight OK button in menu, press OK to delete all selected channel.

If you don't want to delete these channels, move cursor to EXIT in menu and press OK.

Move

This function allows you to move a channel to a specified position.

Move cursor to Move button in menu. Press OK to jump into the Information box. Select a channel you want to delete by using CH▲, CH▼, PAGE▲, PAGE▼. Press OK to confirm, You can see a symbol √ displayed in.

Press OK again if you decide not to move this channel, the symbol √ will disappear.

Move the selected channel to your desired position by using CH▲ and CH▼. Press OK to confirm, or press EXIT to return to the original location. Press EXIT to exit from the information box.

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```
Organizing Services Menu

No  CH Name   SAT Name     TP  F  L  $
1   ART       ARAB2A/3A    1          $
2   ART       ARAB2A/3A    1          $
3   ART       ARAB2A/3A    1      🔒  $  √
4   TCM       ARAB2A/3A    1      🔒  $
5   TCN       ARAB2A/3A    1          $
6   Star      ARAB2A/3A    5  ♥      $
7   [V]       ARAB2A/3A    5  ♥      $
8   NaGe      ARAB2A/3A    5  ♥      $
9   Star      ARAB2A/3A    5  ♥      $
10  Zee TV    ARAB2A/3A    5          $
11  Zee TV    ARAB2A/3A    5          $
12  Ajman     ARAB2A/3A    6
```

Delete	Move	Favorite	Lock
Sort	By Lock	OK	Exit

Lock

By this you can lock desired channels.

Move cursor to Lock button in menu. Press OK to jump into the information box. Select desired channel by using CH▲, CH▼, PAGE▲, PAGE▼. Press OK to confirm, you can see symbol 🔒 displayed. To unlock this channel press OK again.

Repeat above operation to select all the desired channels. Press EXIT to exit from information box.

When surfing channels use CH▲&CH▼ key, locked channels could not be skipped. Please use program list to skip locked channels.
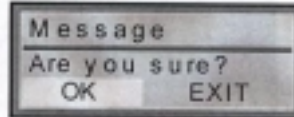
Sort

You can sort and organize channels by scrambled, lock and/or favorite.

Move cursor to Sort button in menu, select a mode by using ◄VOL and VOL ►. Press OK, a message box will be displayed.

Press OK to confirm, or move cursor to EXIT button in the menu and press it to cancel.

```
Message
─────────────────
Are you sure?
  OK        EXIT
```

Favorite

By this mode, you can create a favorite list.

Move cursor to Favorite button in menu. Press OK to jump into the Information box. Select desired channel by using CH▲, CH▼, PAGE▲, PAGE▼. Press OK to confirm, you can see symbol ♥ displayed. To release this channel press OK again.

If you want to select more channels one time, repeat the above operation.

EXIT

After edit, press EXIT or MENU to exit From the information box, a message box will appear for a few seconds showing "saving........".

```
Message
─────────────────
Saving------
```

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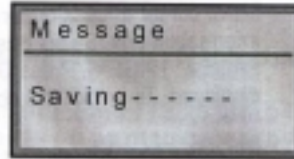
Using the Menu

Advanced Search

In this mode, you can modify channel's parameter, especially modify channel number, channel name, Audio PID, Video PID and so on.

```
Advanced Search Menu
┌──────────────────────────┬──────────────────────────┐
│ Sat Name   Nile 01/02    │        Information       │
│ Transponder    TP6       │ Type:     TV             │
│ CH No.         1         │ TP Freq(M): 11996.00     │
│ Name      Super Movie    │ Symbol Rate(K): 27.500   │
│ Video PID      0544      │ 22K       Auto           │
│ Audio PID1     0545      │ 12V:      OFF            │
│ Audio PID2     0000      │ D.seqc:   OFF            │
│ Teletext PID   0000      │ LNB1(MHz): 9750          │
│ PCR PID        0544      │ LNB2(MHz): 10700         │
│                          │ LNB Type: Universal      │
├──────────┬───────────┬───┴──────────────────────────┤
│ Search   │ Delete    │ Save │                        │
└──────────┴───────────┴──────┴────────────────────────┘
```
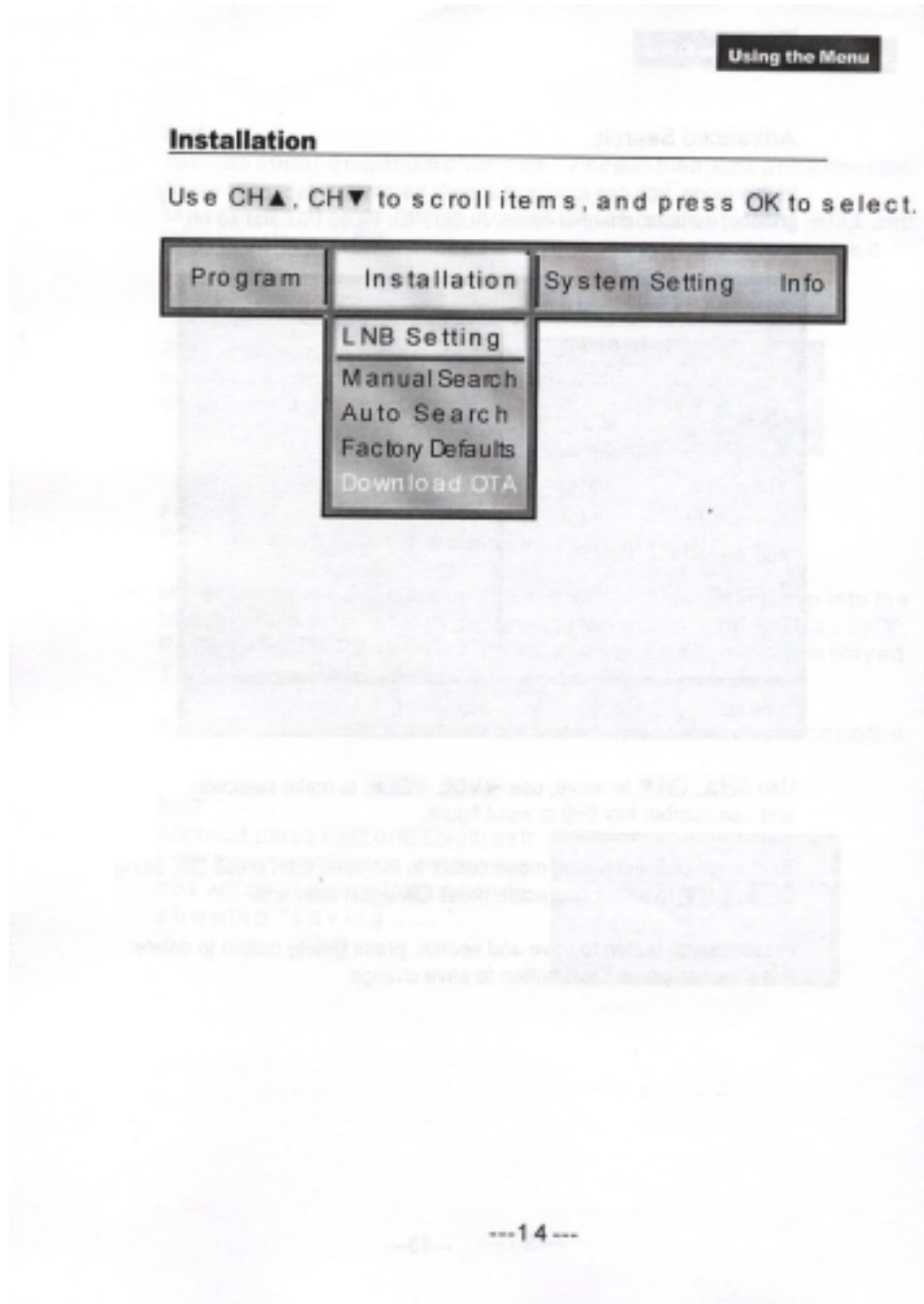
Use CH▲, CH▼ to move, use ◄VOL, VOL► to make selection, and use number key 0~9 to input figure.

To change channel name, move cursor to the item, then press OK, using CH▲, CH▼ to select character, press OK again after edit.

Press Search button to save and search, press Delete button to delete this channel, press Save button to save change.

Installation

Use CH▲, CH▼ to scroll items, and press OK to select.

Program	Installation	System Setting	Info

LNB Setting
Manual Search
Auto Search
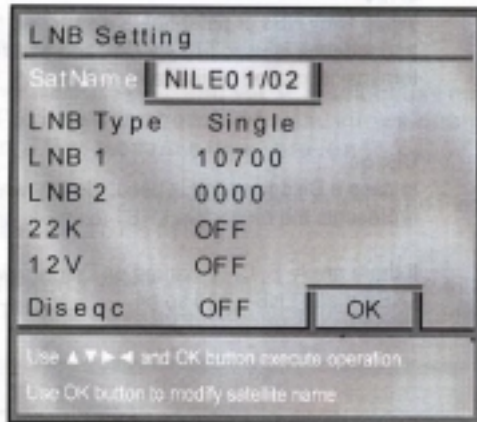Factory Defaults
Download OTA

Using the Menu

LNB Setting

Use CH▲ and CH▼ to select item.

Use ◄VOL and VOL► to change.

Use number key to Input parameter.

Press OK to confirm and Exit to exit.

```
LNB Setting

SatName    NILE01/02

LNB Type    Single
LNB 1       10700
LNB 2       0000
22K         OFF
12V         OFF
Diseqc      OFF        OK

Use ▲ ▼ ► ◄ and OK button execute operation.
Use OK button to modify satellite name
```

Sat Name

There are preprogrammed transponders for following satellites Arabsat 2A/3A, Nilesat 01/02, and Eutel 1-5. It also provides 5 user named satellites for to you. Use ◄VOL and VOL► to select desired satellite.

If you want to change satellite name, select and press OK, then Use CH▲ and CH▼ to change, press OK again when finished.

LNB Type

There are two modes you can choose: Single or Universal.

Use number key to key in proper Frequency of LNB1 and LNB2. If single type is selected, only LNB1 you can change.

22K

When dual LNB or two antennas are connected to a 22K switch box, define 22K switch on or off to select LNB or antenna.

0/12V
When two LNBs or antennas are switched by 0/12V, define which LNB and antenna is used IRD for ON, and which one is for OFF. 0/12 terminal is located on the rear of STB.

Diseqc
In case a Diseqc switch is used, identify which antenna or LNB represents the respective LNB1 to LNB4, on the Diseqc switch.

If there are A, B, C, D marked on Diseqc switch port, it is Understood LNBA mean LNB1, and so on.

Using the Menu

Manual Search

In this sub menu, you can input TP's parameters and find services.

Use CH▲, CH▼ to move cursor, ◀VOL and VOL▶ to select, use number key to input figures. The bars at the bottom of menu show signal power and quality when TP's parameters are entered.
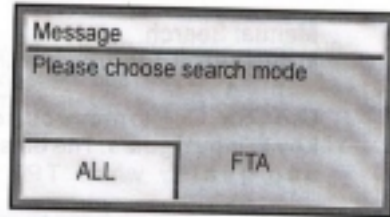
Move cursor to Search TP, Delete TP and Save in menu, and Press OK to execute operation accordingly.

Search TP will save TP and search available services. Delete TP will delete present edited TP, while save operation will save present edited TP.

Manual Search Menu		
Sat Name	NILE01/02	Information
TP:	TP6	Diseqc: OFF
Trans Freq:	11996.00	LNB1: 9750
Symbol Rate:	27.500	LNB2: 10600
Polarization:	Horizontal	LNB Type: Universal
Skew:	OFF	22K: Auto
Network Search	OFF	12V: OFF

Search TP	Delete TP	Save

Signal power 70%
Signal quality 85%

When Search TP is executed, an information box will be displayed. Use ◄VOL and VOL► to choose the mode you prefer, and press OK, it will begin to Search services. A message " Searching programs, please wait a while " will display.

Message
Please choose search mode

ALL	FTA

If new services are found, TV program list will be displayed, new channel are added to the bottom of the list, and last found channels will be displayed

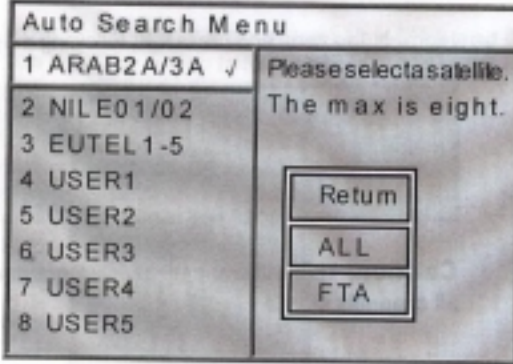If no services are found, it will continue to show present channel.

To stop this operation, press exit when information box is displayed Instead of OK.

Using the Menu

Auto Search

In this option, you can do auto search for the connected satellite.

Highlight satellite by using CH▲ and CH▼, then press OK to Confirm, you can see a symbol √ displayed against the satellite.

```
Auto Search Menu

1 ARAB2A/3A  √      Please select a satellite.
                    The max is eight.
2 NILE01/02
3 EUTEL1-5
4 USER1                   ┌──────────┐
                          │  Return  │
5 USER2                   ├──────────┤
6 USER3                   │   ALL    │
                          ├──────────┤
7 USER4                   │   FTA    │
                          └──────────┘
8 USER5
```

Press OK again to select already chosen satellites.

Move cursor to right part of the menu by pressing VOL►. Use CH▲ and CH▼ to select ALL, FTA or Return, and then press OK to execute.

Execute ALL to search all the channels including TV & radio. Execute FTA to search free to air channels only. Execute Return to resume.

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Factory Defaults

By this you can reset IRD to factory settings.

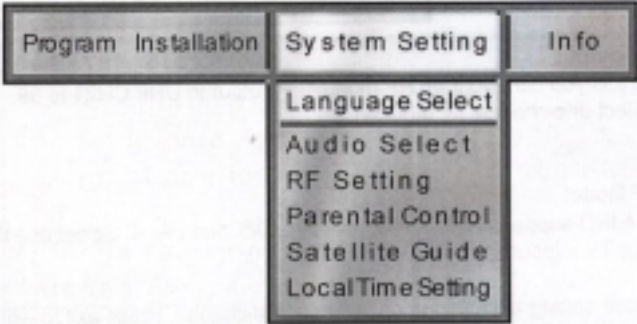Highlight this item, and press OK, following message will display:

Factory Defaults will erase all user added
channels!
Press OK to confirm, press EXIT to cancel

Caution: This will erase all user-programmed setting and erase
all channels stored.
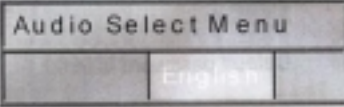
Using the Menu

System setting

System setting includes 6 items (see below). Use CH▲ and CH▼ to scroll items. Press OK to enter into each individual setting.

Program Installation	System Setting	Info

Language Select
Audio Select
RF Setting
Parental Control
Satellite Guide
Local Time Setting

Language Select
There are six different languages You can choose by using ◄VOL and VOL► key.
Press EXIT to finish selection

Language Select Menu

Language select   English →
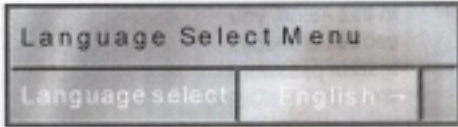
Audio Select
If multi audio language of current channel is available, a information box will be displayed, otherwise a message " no multilanguage audio available " is displayed.

Audio Select Menu

English

Use ◄VOL and VOL► to select audio language, and press OK to confirm, then press exit to finish selection.

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RF Setting

Use CH▲, CH▼ to highlight item. Use ◄VOL, VOL► to change setting.

RF Setting Menu	
RF Output	38 CH
RF Model	PAL-B/G
Use MENU, EXIT, NUMBER button and ▲ ▼ ► ◄ button to execute operation.	

RF output

By this you can program RF modulator output to UHF CH21 to 69. Select one channel as required.

RF Model

The IRD supports NTSC, PAL B/G, PAL D/K and PAL-I. Select one that your TV supports.

These setting will effect at once when you change. Press exit to exit menu.

Parental Control

In this menu, you can set or modify system password and menu password by using number key. Use CH▲ and CH▼ to move Cursor, and select ON/OFF mode by using ◄VOL and VOL►.

IRDPassword Setting Menu	
System Password	OFF
Menu Password	ON
New Password	• • • •
Confirm Password	• • • •
Use Number keys, MENU, EXIT and ▲ ▼ ► ◄. Press OK to save.	

Default password is 0000.

Using the Menu

Satellite Guide
This helps to calculate antenna setting angle. Input local latitude, Longitude and longitude of satellite which your antenna points to. Move cursor to OK button and press to confirm, then it will show azimuth and elevation angle for the antenna.

Antenna Elevation	
Local Longitude	000°00°
Local Latitude	000°00°
Satellite Longitude	000°00°
	OK
Antenna Azimuth	
Antenna Elevation	

The north is 0 degree of the azimuth, increasing clockwise; The horizon is 0 degree of the elevation, increasing upwards.

Local Time Setting
Use CH▲ and CH▼ to highlight item, then use ◄VOL and VOL► to select local time and set summer time ON or OFF.

Local Time Setting Menu	
Set Local Time	GMT + 4
Summer Time	OFF

Using the Menu

Info

There are 7 items in this option: Channel info, CA Status, IRD Status, Loader Status, Mail Message, Announcement and About. These show info about current channel, IRD status and Supplier. Use CH▲ and CH▼ to highlight each item, then press OK to view.

Channel Info
This information box shows detailed Info about current channel. Press OSD key to show it directly.

```
Program Type: TV        Channel Number: 1
SatName: NILE01/02      TP: TP6
Name: Nat Geo           Trans Freq(MHz): 12073
Symbol Rate: 27500      Polarization: Horizontal
12V: OFF     TelePid: 0000     VideoPid: 0784
22K: ON      AudioPid:0785     AudioPid2:0000
PcrPid: 0784       LNB Type: Universal
LNB1(MHz): 9750    LNBw(MHz):10600
Diseqc: OFF        Skew: OFF
Signal Power: 60%  [          ]
```

CA Status

```
SoftCELL VERSION: 2.09H
SmartCard Nubmer: 00053109856
         Type:    0405
         Version  V2.01
         Status   0200
Transport Stream Info: TS1: EMM PID 0x0000
Service Info:
      Service Handle 1:        0x0000
      Global Service State     0x06
      Component Stream States  00 00 00
Monitoring EMM: 00 00 00 00 00
         ECM: 00 00 00 00 00 00 00 00 00 00 00
Nationality: ARE
```

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Using the Menu

IRD Status

```
              IRD STATUS
IRD                Smart Card
477053615            00053109856

IRD: 33 .2 .33          Firmware: 1.0
CA Module: Softcell V2.09h
Loader: 3.2  -1 0:80 OK L-80

IRD SW: V3.20 DVC-S 31/12/2001
OpenTV SW: Naot avilable
Appl SW:      Not available
Driver SW    V2.01
```

Loader Status

```
            LOADER STATUS
IRD Ser NO: 477053615  Loader Ver: 3.2
Manu Code: 33              H/W Ver:  2
Load Ver:     80          Sign Ver:  80
Variant:      33          Key Sys ID: -1
Key Status:   OK          Key Ver:   0
Random Num: 325922663 CRC Part:   24
Bin2ird Ver:  3.1j         Bin2ird Ser: 1
Sign Date:  04/01/02  Dload Date: 02/01/02
Sing Time:  20:00:57  Dload Time: 21:22:34
Dload Dur:  00:04:09  ImageSize: 51658495
```

Mail Message

```
MAIL MESSAGE[ ]        Old
No Main Message Since 00:00



Press UP and DOWN key to read.
Press MENU or EXIT to EXIT.
```

Announcement

```
ANNOUNCEMENT[ ]        Old
No Announcement Message Since 00:00



Press UP and DOWN key to read.
Press MENU or EXIT to EXIT.
```

About

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Receiver Information
Version Number: 3.2
Company: TECHNOSAT
P.O. Box: 51045,
Dubai – U.A.E.
Fax: 04-2212160
Tel: 04-2246220
Http: www.technosat_uae.com
E-mail: tecnosat@emirates.net.ae
```

Electronic Program Guide

Press EPGkey on the RCU to enter into EPG box. Press ◄VOL and VOL ► to alternate between current program and next program.
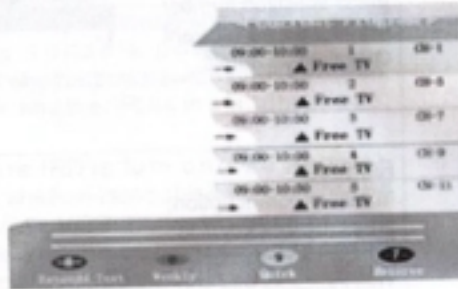
Press number key 8 to display extended symbol against selected program. Wait untill extended info about this program appear, if any. Press EXIT to exit from extended information status.
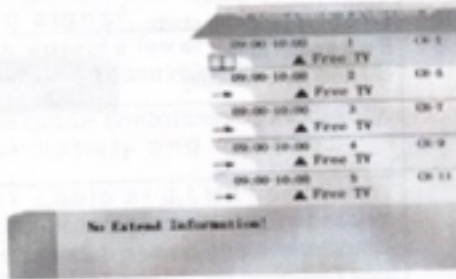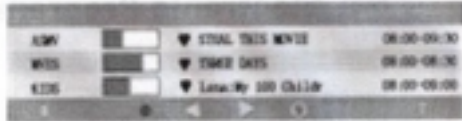
Press number key 0 to display program forecast for whole week if it is transmitted in data stream. Use ◄VOL & VOL ► to view each day forecast.
Press EXIT to exit.
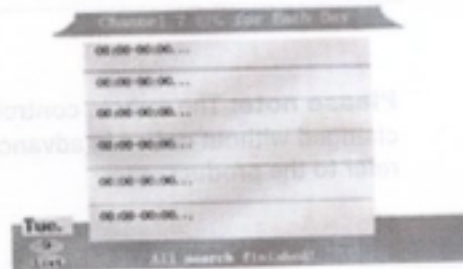
EPG

Press number key 9 to
Enter into brief EPG
List. You can also
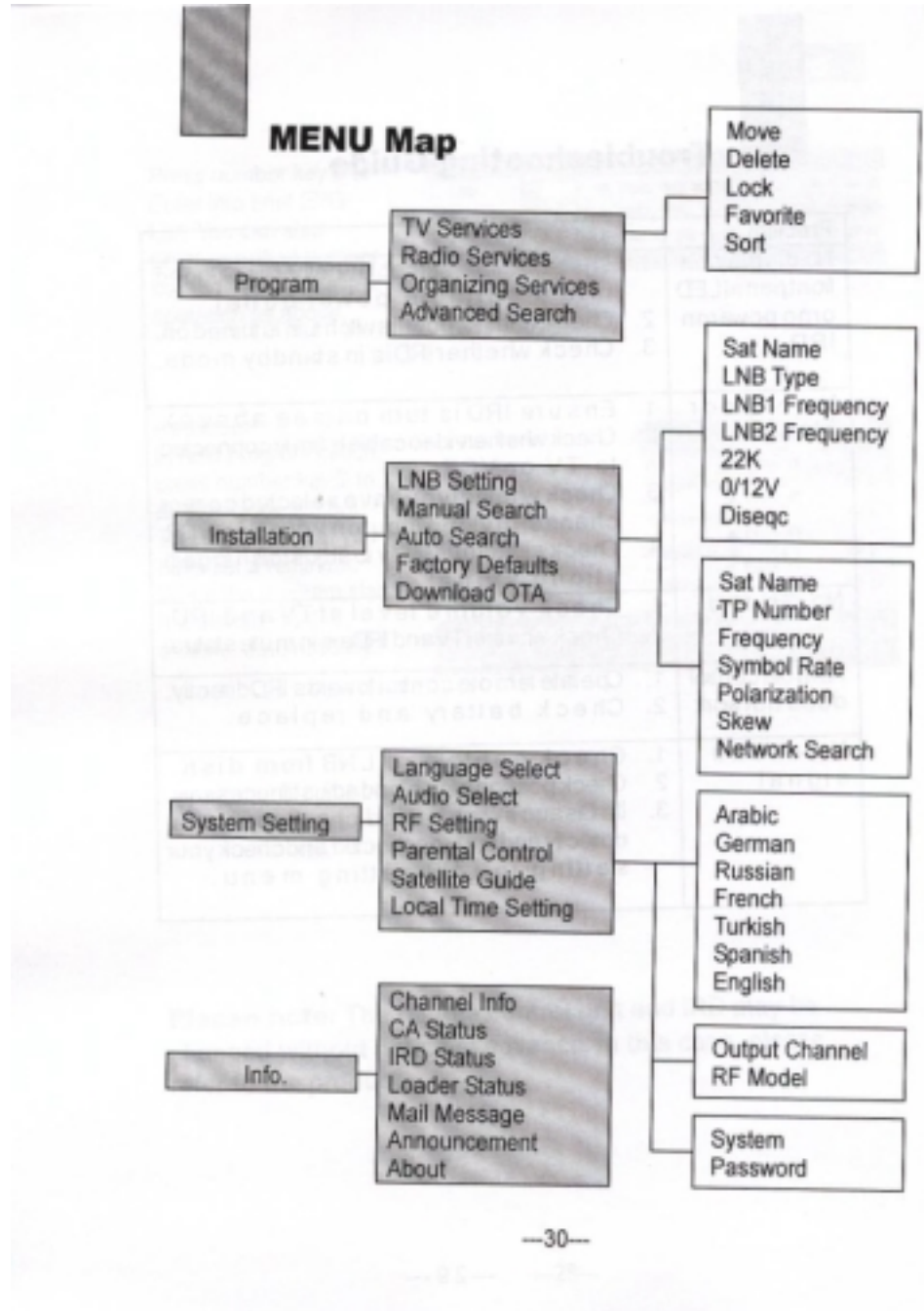press specified number
key to execute relevant
operation as above.

Reminder
In next program option,
press number key 7 to
display clock symbol
This indicates that you
have set a reminder.
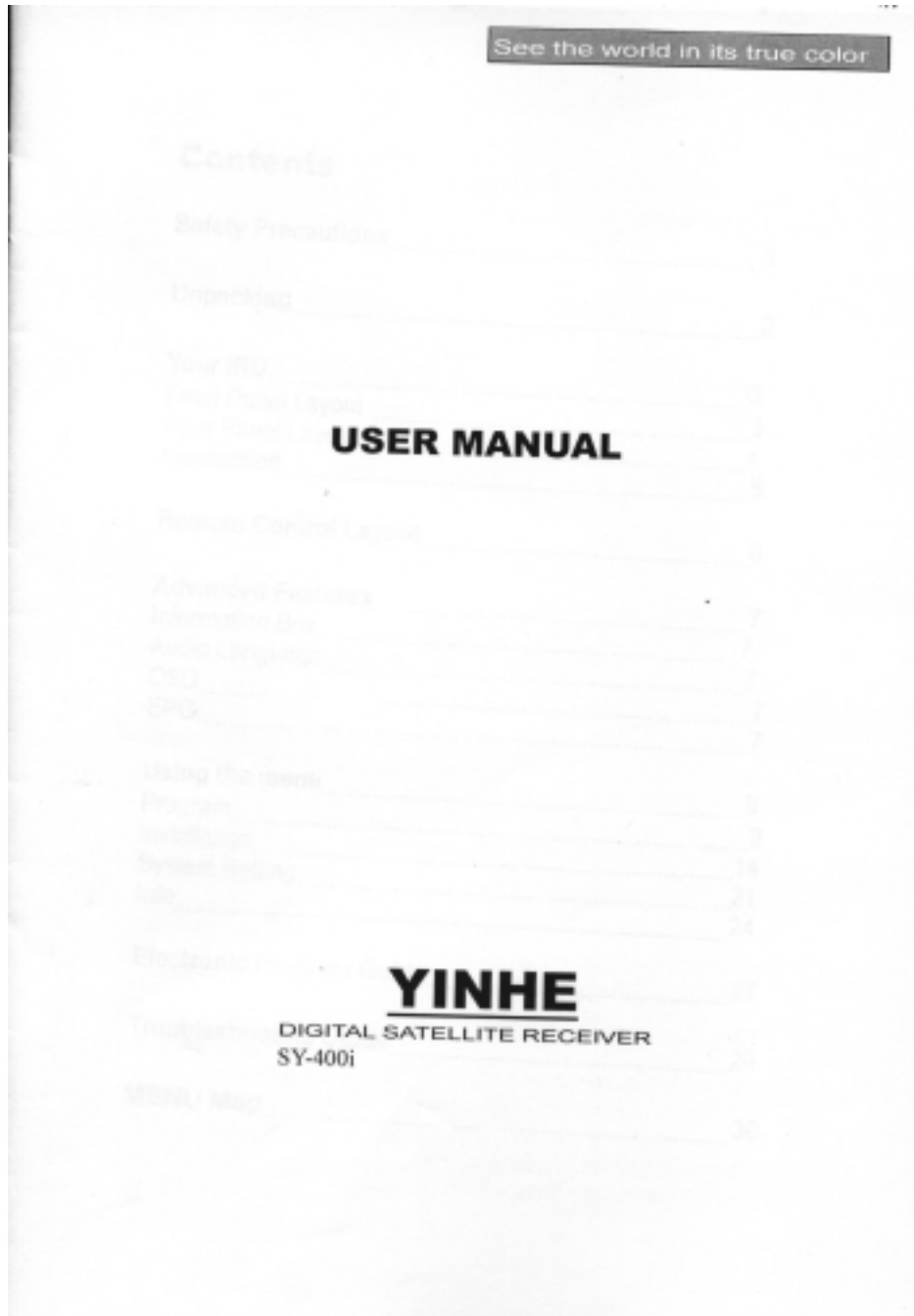When the program starts,
It will switch to this
channel automatically.

Please note: The remote control unit and IRD may be
changed without notice in advance, in this case, please
refer to the product.

Troubleshooting Guide

Problem	Solution
No display on front panel LED or no power on IRD	1. Check main power cable whether it is plugged into a suitable power outlet. 2. Check whether power switch turn is turned on. 3. Check whether IRD is in standby mode.
No or poor picture	1. Ensure IRD is turn on (see above). 2. Check whether video cable is firmly connected to TV or VCR. 3. Check whether you have selected correct channel or video input on your TV or VCR. 4. Check signal quality, try to adjust dish to gain strong signal.
No Sound	1. Check volume level of TV and IRD. 2. Check whether TV and IRD are in mute status.
Remote control does not work	1. Operate remote control towards IRD directly. 2. Check battery and replace.
No or bad signal	1. Check cable and LNB from dish. 2. Check position of dish, and adjust if necessary. 3. If a Diseqc switch is used, check whether it is correctly and firmly connected, and check your setting in LNB setting menu.

MENU Map

Program
- TV Services
- Radio Services
- Organizing Services
- Advanced Search

→ Move
- Delete
- Lock
- Favorite
- Sort

Installation
- LNB Setting
- Manual Search
- Auto Search
- Factory Defaults
- Download OTA

→ Sat Name
- LNB Type
- LNB1 Frequency
- LNB2 Frequency
- 22K
- 0/12V
- Diseqc

→ Sat Name
- TP Number
- Frequency
- Symbol Rate
- Polarization
- Skew
- Network Search

System Setting
- Language Select
- Audio Select
- RF Setting
- Parental Control
- Satellite Guide
- Local Time Setting

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- French
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Info.
- Channel Info
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- IRD Status
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- RF Model

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Cover page of SY-400i

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