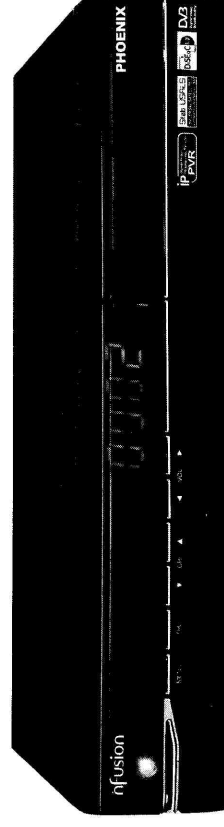


PHOENIX

Digital Satellite Receiver
Free To Air



R3X 1.30

Made in Korea

MMNANES91NV1C02

User' s Guide

FOR YOUR SAFETY

Information contained in this manual is subject to change without notice. No part of this publication may be copied, reproduced, or translated to another language for any purpose.

FOR YOUR SAFETY

- Be sure to read the user manual before starting the operation of the receiver.
- Do not open the housing. The receiver contains high-voltage components and parts.
- Even after switching off the receiver still contains high-voltage for a while.
- Do not expose to rain or moisture.
- Do not make objects or fluid enter the housing through the ventilation slot. If any spilt liquid went into to the housing, unplug the power cord and call your local service provider.
- Do not place close to any heat source.
- Do not press with hard or heavy object.
- To protect possible malfunction by lighting, we recommend you to use power surge unit. Call your local dealer for advise.

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For Your Safety

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1.1 Main Features

- Easy Menu Function
- TV Guide Function
- RF Output Function
- Software Upgrading Function Through RS-232C Cable by PC
- Perfect DiSEqC 1.2 and Usals Support for Various Antenna System
- Supports of Ku/C band, SCPC and MCPC
- Additional Audio Output Function for Connection to Hi-Fi Audio System
- Other Functions of Remote Controller, Receiving Level Selection, Channel Editing, Menu Language Selection and Audio Selection
- Digital free-to-air Satellite Receiver
- IP-PVR
- Weather Forecast Function

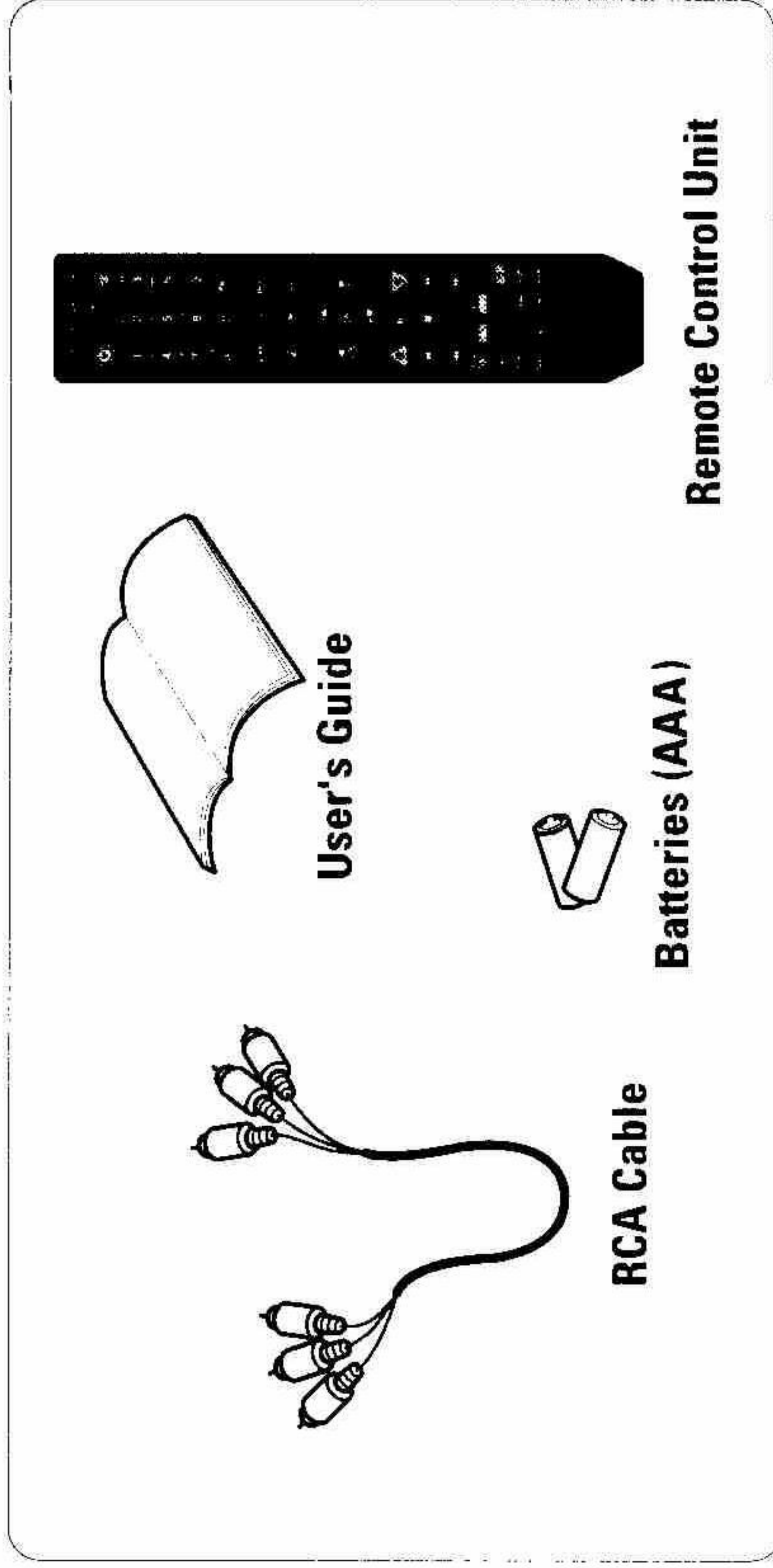
Note

When PAL channel is viewed on NTSC TV, small deletion on up & down sides of the screen may occur and it is normal, as its conversion is managed by software. And darker color on the bottom side of the screen may occur, when NTSC channel is viewed on PAL TV.

- 6000 Channels Memory Function
- Teletext Supported (When program supports)
- Multi Language Function(Menu, Audio)

1.2 Accessories

- RCA cable
- Batteries(AAA)
- Remote Control Unit
- User's Guide
- RS-232 Cable



1.3 Universal Remote-Controller Setting

Direct Code Entry

- STEP1. Turn on the component that you want to set up (TV, VCR, DVD).
- STEP2. Hold the component key "TV, VCR, DVD" and "OK" key down until the component key light comes on. The light should come on after approximately 3 seconds. **
- STEP3. Within twenty seconds, enter in a 3-digit code number. (See device code pages) **
- STEP4. Test the code by pressing the "Power" key. If the component turns off, you've got the right code. If the component does NOT turn off, press the next 3-digit code listed.
- STEP5. Finish setup by pressing 'OK' key.

** Caution: During setup if no key was pressed within 20 seconds during steps 2-3, LED will turn off and settings will not be applied.

Note

If no any brand code is matched, please try Auto Code Search.

Auto Code Search

- STEP1. Turn on the component that you want to set up (TV, VCR, DVD).
- STEP2. Hold the component key "TV, VCR, DVD" and "OK" key down until the component key light comes on. The light should come on after approximately 3 seconds. **
- STEP3. Press and release the "CH+" or "CH-" key until your device shuts off. This may take some time. **
- STEP4. Finish setup by pressing 'OK' key right after device shuts off.

** Caution: During setup if no key was pressed within 20 seconds during steps 2-3, LED will turn off and settings will not be applied.

BEFORE GETTING STARTED

TV

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
ADMIRAL	072, 081, 160, 161, 096
ADVENT	247
AIKO	103
AKAI	006, 146, 248
ALARON	028
AMARK	112, 143
AMERICA_ACTION	043
AMPRO	073
ANAM	043, 054, 055, 056, 080, 112
AOC	058, 006, 004, 112
APRC_DIGITAL	015, 226
AUDIOVOX	076, 103, 043
BAYSONIC	043
BELL_HOWELL	072
BRADFORD	043
BROKSONIC	096
CANDLE	006, 002, 003, 004
CAPEHART	059
CARVER	164
CELEBRITY	001
CETRONIC	043
CINERAL	103, 120
CITIZEN	006, 002, 003, 004, 101, 103, 143
CLASSIC	043
CONCERTO	004
CONTEC	043, 051
CORONADO	143
CRAIG	043, 054, 028
CROSLEY	164
CROWN	043, 143
CURTIS_MATHES	006, 004, 101, 143, 011, 072, 081, 120, 164
CXC	043
DAEWOO	076, 103, 055, 004, 127, 143, 016, 043, 044, 125, 120
DAYTRON	004, 143
DENON	011
DUMONT	004, 073
DWIN	161
DYNASTY	043
DYNATECH	062

Universal Remote-Controller Setting

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
ELECTROBAND	001
ELECTROHOME	024, 076, 143
EMERSON	005, 028, 043, 048, 076, 096, 155, 004, 051, 143, 151, 153, 154
FISHER	007, 057
FUJITSU	164, 028, 198, 246
FUNAI	028, 043, 052, 249
FUTURETECH	043
GATEWAY	242
GE	006, 073, 144, 160, 161, 004, 008, 009, 034, 056, 074, 091, 155, 081, 120
GIBRALTER	004, 073
GOLDSTAR	004, 106, 119, 110, 112, 113, 127, 143
GRUNPY	028, 043
HALL_MARK	004
HARLEY_DAVIDSON	028
HARMAN_KARDON	164
HARVARD	043
HITACHI	163, 004, 007, 009, 011, 072, 010, 012, 023, 075, 143, 158
INFINITY	164
INKE	129
INTEQ	073
JBL	164
JCB	001
JCPENNEY	004, 006, 008, 024, 030, 065, 101, 143, 156, 160
JENSEN	013
JVC	038, 001, 034, 083, 206
KENWOOD	006, 001
KLOSS	002, 059
KTV	006, 043, 143, 154
LG	004, 106, 119, 110, 112, 113, 127, 143
LODGENET	072
LOEWE	207, 164
LOGIK	072
LUXMAN	004
LXI	007, 015, 052, 081, 160, 164
MAGNAVOX	006, 003, 004, 022, 059, 060, 061, 063, 064, 127, 164, 094, 160, 028, 250
MAJESTIC	072
MARANTZ	164, 006
MATSUI	164
MATSUSHITA	080

BEFORE GETTING STARTED

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
MEGATRON	004
MEMOREX	004, 007, 072, 028, 096
METZ	088
MGA	024, 006, 004, 042
MIDLAND	073
MINERVA	088
MINUTZ	008
MITSUBISHI	109, 024, 042, 004, 040, 146, 028, 081, 225
MOTOROLA	081
MTC	006, 004, 062, 101
MULTITECH	043
NAD	015, 025
NEC	006, 134, 040, 056, 007, 019, 024, 237
NIKEI	043
NIKKO	103
NTC	103
ONKING	043
ONWA	043
OPTIMUS	080
OPTONICA	019, 081
ORION	096, 201, 202, 203, 204, 205, 028
PANASONIC	034, 056, 080, 164, 208, 222
PHILCO	006, 003, 004, 024, 056, 059, 060, 063, 064, 127, 143, 164
PHILIPS	164, 005, 038, 093, 127, 006, 003, 004, 059, 210
PIONEER	023, 025, 135, 176, 004, 018, 006, 209, 234
PORTLAND	004, 143, 103
PRISM	034
PROSCAN	144, 160, 161
PROTON	004, 058, 134, 171, 173, 112
QUASAR	034, 056
RADIO_SHACK	004, 019, 127, 143, 043
RCA	160, 161, 144, 156, 065, 006, 004, 023, 024, 056, 074, 152, 081
REALISTIC	007, 019
RUNCO	072, 073
SAMPO	006, 004, 058, 242
SAMSUNG	004, 101, 127, 133, 143, 160, 089, 105, 211, 228, 229
SANSEI	120
SANSUI	096
SANYO	007, 053, 057, 082, 020
SCOTCH	004
SCOTT	004, 005, 028, 043, 048, 143

Universal Remote-Controller Setting

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
SEARS	004, 007, 015, 028, 030, 057, 082, 094, 143, 160, 052, 164
SEMIVOX	043
SEMP	015
SHARP	081, 014, 019, 028, 004, 022, 143, 175
SIGNATURE	072
SONY	001, 126, 139
SOUNDESIGN	003, 004, 028, 043
SPECTRICON	112
SQUAREVIEW	052
SSS	004, 043
STARLITE	043
SUPRE_MACY	002
SUPREME	001
SYLVANIA	006, 003, 059, 060, 063, 064, 127, 160, 164, 044, 249
SYMPHONIC	052, 249
TANDY	081
TATUNG	056, 062
TECHNICS	034, 080
TECHNOL_ACE	028
TECHWOOD	004
TEKNIKA	002, 003, 004, 024, 028, 043, 072, 101, 143, 103, 164
TELERENT	072
TERA	172
TMK	004
TNCI	073
TOSHIBA	015, 030, 007, 040, 062, 101
TOTEVISION	143
UNIVERSAL	008, 009
VIDEO_CONCEPTS	146
VIDIKRON	174, 188, 164
VIDTECH	004
WARDS	004, 064, 164, 008, 009, 019, 028, 060, 061, 063, 072, 074, 143
WESTING_HOUSE	076
YAMAHA	004, 006
YORK	004
YUPITERU	043
ZENITH	072, 073, 095, 103, 011, 096
ZONDA	112

BEFORE GETTING STARTED

VCR

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
ADMIRAL	025, 053
AIKO	117
AIWA	034, 161, 101
AKAI	043, 046, 124, 146
AMERICA_ACTION	117
AMERICAN_HIGH	031
AMPRO	072
ANAM	031, 103
ASHA	040
AUDIO_DYNAMICS	012, 023, 043
AUDIOVOX	101
BEAUMARK	040
BROKSONIC	035, 037, 129, 025
CALIX	101
CANON	028, 031
CAPEHART	108
CCE	024, 117
CINERAL	117
CITIZEN	101, 117
COLT	024
CRAIG	003, 040, 135, 024, 101
CUIRTIS_MATHES	031, 041
CYBERNEX	040
DAEWOO	005, 108, 111, 117, 017, 065, 007, 010
DAYTRON	108
DBX	012, 023, 043
DYNATECH	034, 053
ELECTROHOME	059, 101
ELECTROPHONIC	101
EMERSON	006, 029, 035, 037, 129, 153, 017, 025, 027, 031, 034, 036, 046, 101, 131, 138, 117
FISHER	003, 010, 008, 009
FUJI	031
FUNAI	034
GARRARD	034
GE	031, 072, 144, 147, 063, 107, 109, 040, 053
GO_VIDIO	132, 155, 040, 136
COLDSTAR	101, 004, 012, 020
HARLEY_DAVIDSION	034

Universal Remote-Controller Setting

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
HARMAN_KARDON	012, 045
HARWOOD	024
HITACHI	004, 026, 034, 043, 063, 137, 150
HQ	034
HUGHES	004
INSTANTREPLAY	031
JCL	031
JCPENNEY	004, 012, 031, 040, 101
JENSEN	043
JVC	048, 043, 055, 060, 130, 150, 152, 012, 031
KEC	101, 117
KENWOOD	034, 150, 014, 048
KLH	024
KODAK	031, 101
LG	101, 004, 012, 020
LLOYD	034
LOGIK	024
LXI	003, 009, 017, 034, 101, 004, 106
MAGIN	040
MAGNASONIC	117
MAGNAVOX	067, 031, 034, 068, 041, 156, 170
MARANTZ	067, 069, 012, 031
MARTA	101
MATSUI	027, 030
MATSUSHITA	031
MEI	031
MEMOREX	040, 101, 003, 014, 031, 034, 053, 072, 134, 139, 025
MGA	045, 046, 059
MGN_TECHNOLOGY	040
MINOLTA	004, 020
MITSUBISHI	059, 061, 051, 004, 046, 020, 045, 053
MOTOROLA	031, 053
MTC	034, 040
MULTITECH	024, 034
NEC	012, 023, 043, 048
NIKKO	101
NOBLEX	040
NORDMENDE	043
OLYMPUS	031
OPTIMUS	053, 101

BEFORE GETTING STARTED

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
OPTONICA	053, 054
ORION	025
PANASONIC	031, 070, 133, 140, 163
PENTAX	004, 031, 063, 020
PHILCO	031, 034, 067, 025
PHILIPS	031, 034, 054, 067, 101, 150
PILOT	101
PIONEER	021, 004, 048
PORTLAND	108
PROFITRONIC	040
PROTEC	024
PULSAR	072
QUARTZ	014
QUASAR	031, 070, 133, 140, 163, 014
RADIO_SHACK	123, 034
RADIX	101
RANDEX	101
RCA	107, 109, 144, 041, 031, 004, 020, 034, 040, 140, 147, 158, 053
REALISTIC	003, 008, 014, 031, 034, 040, 053, 054, 101, 010
RICO	058
RUNCO	072
SALORA	014
SAMSUNG	040, 017, 107, 109, 113, 115, 124, 122
SANKY	053
SANSUI	043, 135, 048, 025, 034
SANYO	003, 014, 040, 134
SCOTT	017, 037, 129, 131
SEARS	003, 004, 008, 014, 017, 081, 101, 010, 031, 034
SHARP	053, 031, 054, 159
SHINTOM	024
SHOGUN	040
SINGER	024
SONY	001, 057, 058, 003, 052, 053, 031, 154, 171, 009, 034
SOUNDESIGN	034
STS	004
SYLVANIA	031, 034, 059, 067
SYMPHONIC	034
TANDY	034, 010
SATUNG	043
TEAC	034, 043

Universal Remote-Controller Setting

MAKER (BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
TECHNICS	031, 070
TEKNIKA	031, 034, 101
THOMAS	034
TMK	006, 040
TOSHIBA	017, 131, 004, 008, 059, 082, 150
TOTEVISION	040, 101
UNITECH	040
VECTOR_RESEARCH	012
VIDEO_CONCEPTS	012, 034, 046
VIDEOSONIC	040
WARDS	003, 004, 017, 024, 031, 034, 040, 053, 054, 131
WESTINGHOUSE	024, 025
XR-1000	024, 031, 034
YAMAHA	012, 034, 043
ZENITH	072, 034, 001, 058, 080, 101, 153, 048, 025

DVD

MAKER (BRAND) NAME	CODE NUMBER LIST	MAKER (BRAND) NAME	CODE NUMBER LIST
AIWA	202	NAD	247, 239
ALPINE	221	NAKAMICHI	225
APEX_DIGITAL	251, 246	ONKYO	240
ARCAM	215	OPTIMUS	229
CYBERHOME	220	PANASONIC	228, 206, 226
DAEWOO	220	PHILIPS	253, 237, 214, 242
DENON	226, 241	POPNEER	255, 222, 229
FUNAI	208	PROCEED	245
GE	230, 231	PROSCAN	230, 231
GOLDSTAR	235, 239	RCA	230, 231
GO_VIDEO	201	SAMSUNG	236, 248, 201
HARMAN_KARDON	243	SANSUI	205
HITACHI	223	SANYO	204
HITEKER	246	SHARP	252
JVC	238	SONY	232, 218, 203
KENWOOD	216	SYLVANIA	208
KLH	210	SYMPHONIC	208
LG	235, 239	TATUNG	224
MAGNAVOX	254, 237	TECHNICS	228
MARANTZ	253, 242	THETA_DIGITAL	229
MCINTOSH	217	TOSHIBA	233, 244, 219, 205
MEMOREX	207	VENTURER	209
MITSUBISHI	227	YAMAHA	249, 226
MYRYAD	224	ZENITH	239, 226, 235

2.1 Front panel



Turn the power on/off.

MENU

Shows the menu application.

Channel ▲ ▼

Change channel, move menu, or input frequency value.

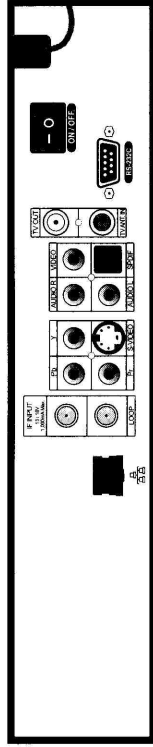
Volume ◀ ▶

Control volume, change item on menu or input frequency value.

OK

Select menu or value on menu item.

2.2 Rear panel



IP Connection

Network interface (Optional)

IF INPUT

It receives signals from the LNB in the range of 950 ~ 2150MHz. Connect a satellite dish to DIGITAL.

LOOP

It sends signal to the another receiver.

YPbPr

Component analog video signal.

S-Video

Separate Video, better picture quality than Composite.

AUDIO R, L

It provides stereo audio output. Connect the audio on TV to AUDIO with RCA cable.

VIDEO

It provides composite video output. Connect the Video on TV to VIDEO with RCA cable.

SPDIF

Output for connection to a digital amplifier.

TV OUT CH3 / CH4

It provides a modulated audio and video from the receiver. Connect the TV/VCR on TV to TV/VCR with the RF cable.

TV ANT IN

The signal supplied to this connector from a TV antenna will be sent to TV antenna output. Connect a TV antenna to TV ANT IN.

RS-232C

It receives data by connecting to PC for software upgrading. Connect with RS-232C cable a PC and receiver.

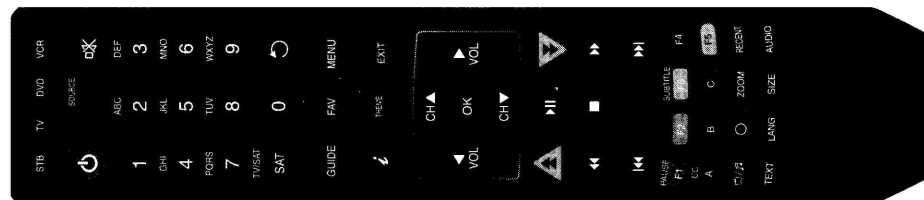
ON/OFF

The switch is to turn on or off the main power of the receiver mechanically.

CONTROLS AND FUNCTIONS

2.3 Remote Control Unit

Open the controller cover on the back and insert two batteries (AAA - 1.5V).



INFO(?)

Shows the information of current channel.

Click the INFO button twice, EPG mode will be displayed.

THEME

Option (no support)

13



Remote Control Unit

EXIT

Exit from the menu.

Channel ▲ ▼

Change channel, move menu.

Volume  

Control volume, change item on menu or input frequency value.

OK

Shows channel list, Select menu or value on menu item.

Page UP(▲)/DOWN(▼)

Move to previous/next page on TV(Radio), Favorite Channels or Edit TV(Radio) Channels.

PLAY() , **STOP**() , **FAST**() , **REWIND**() , **RECORD**())

To control PVR function.

F1(Red Button), F2(Green Button), F3(Yellow Button), F4(Blue Button), F5

Special function keys, refer to the relation sections.

CC(A) - option

Closed-Captioning

日/月

Change to TV mode or Radio mode.

Option (no support)

ZOOM

2 times zoom in mode. First press, show target area box. Second press, show zoomed screen. Zoom area can be moved with arrow keys. Exit zoom in mode with ∞ EXIT \pm remote key.

RECENT

If you hope to show channel list which you watched TV channel list recently, you have to use this function and may show channel list easily.

TEXT

Change to teletext mode.

LANG

Select the audio language from 2 or more audio language channels available.

SIZE

Select between standard 4:3 and wide 16:9 screen sizes.

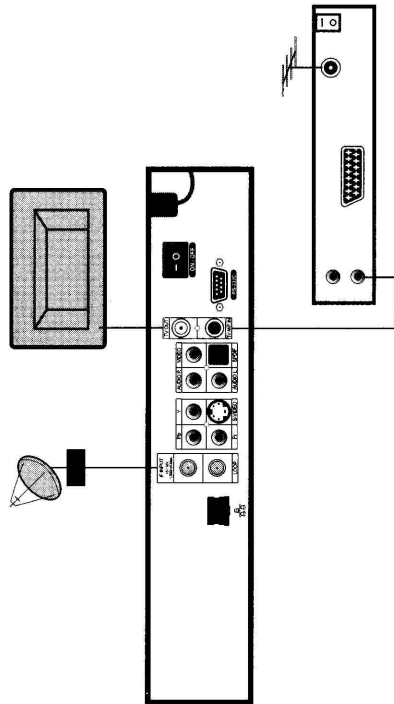
AUDIO

Select Audio mode (Stereo, left or right).

3.1 Connecting to the TV, VCR and Satellite Antenna

It is not necessary to adjust power, as the product is of free - voltage (110~220V)

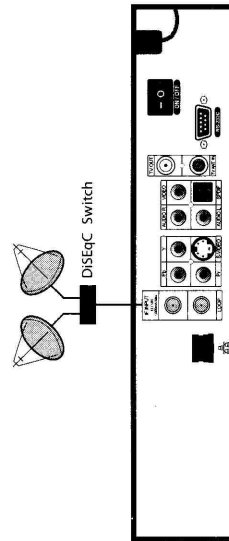
1. Connect the RF cable from the TV OUTPUT on the satellite receiver to a TV and connect the RF module on the VCR and the TV ANT.IN.
3. Connect an antenna to the LNB socket on the VCR or other receiver and cable of the satellite dish to the DIGITAL on the satellite receiver.



3.2 Connecting DiSEqC switch

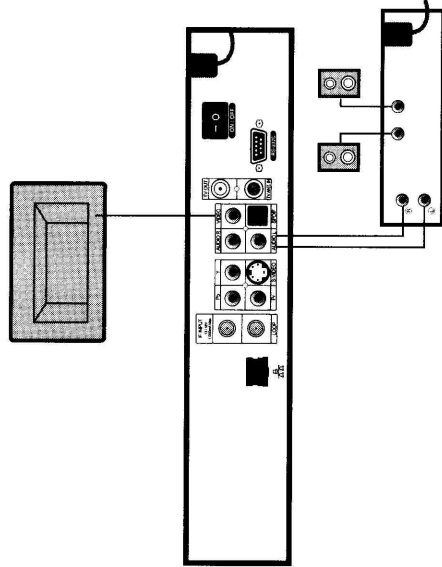
If you have one antenna equipped with many LNBs or two antennas with one LNB on each, you need a DiSEqC switch.

1. Connect the LNBs to a DiSEqC switch at first.
2. Connect the antenna cable to the OUT connector on the DiSEqC switch and connect the end of the cable to the DIGITAL on the satellite receiver.



3.3 Connecting to the TV, HiFi system

1. Connect the RCA cable from the VIDEO INPUT on the TV to the VIDEO on the satellite receiver.
2. Connect a RCA stereo cable from the AUDIO RL on the satellite receiver to the AUDIO RL on the HiFi system.



3.4 Connecting CA module

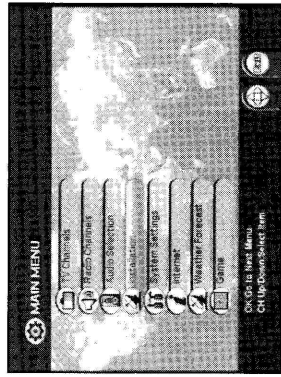
To receive the distributed program of Service Provider you need a Smart card.

1. Insert smartcard fully into the slot to watch scrambled channels.

4.1 Basic Settings

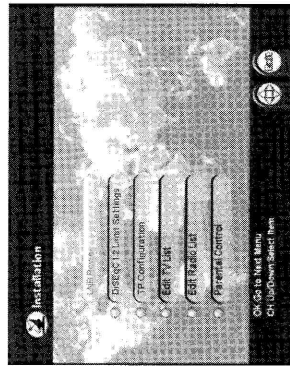
If it is the first time using a receiver, you should set parameters for system configuration. Refer to the following section.

1. Turn on your TV and Satellite receiver.
2. Press the MENU button, main menu screen will appear as shown below.

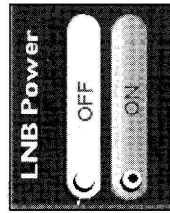


<LNB Power>

1. Select Installation on the Main Menu.
2. Select LNB Power.



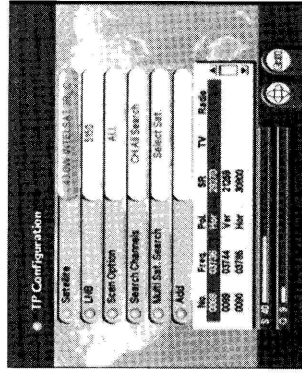
3. If LNB Power is independently supplied from outside source, set the LNB Power OFF. Otherwise set it ON.



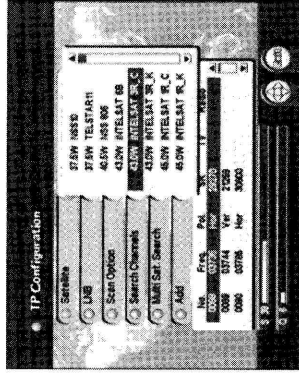
4. After completion of LNB Power setting, go back to Installation menu by pressing MENU.

<DiSeqC 1.2 Limit Settings>

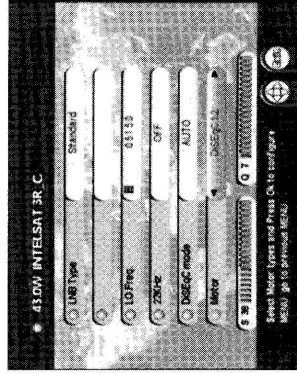
Installation -> TP Configuration



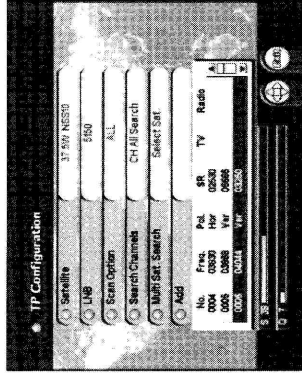
Choose Satellite.



Goto LNB -> Motor -> DiSeqC 1.2

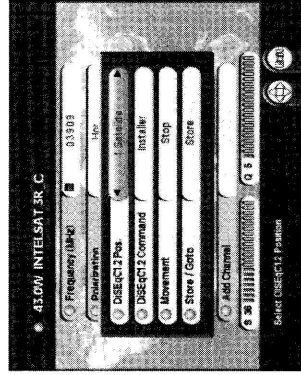


Comeback to TP Configuration by pressing Menu.
Keep down to TP list box.



Press OK on one of TP.

Goto DiSEqC 1.2 by pressing OK.



Follow each menu.

After done, go out on Store.

Satellite / DiSEqC1.2 Pos.

The Satellite shows current name of satellite, and DiSEqC1.2 Pos. shows positioner value of the current satellite.

DiSEqC1.2 Command

DiSEqC1.2 Command changes the current mode between Installer and User.

Movement

In User mode this is used to tune the position of the motor. In Installer mode this is used to search for the position of a satellite manually.

Store

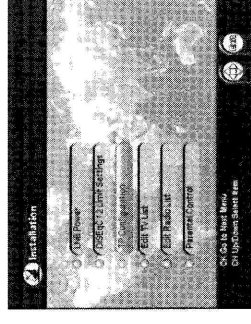
Stores the current position of the motor for the selected satellite name.

Goto

Moves the motor to the stored position of the selected satellite name.

<USALS setting>

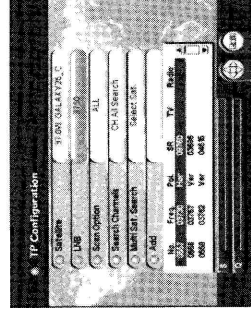
Go to Installation -> TP configuration.



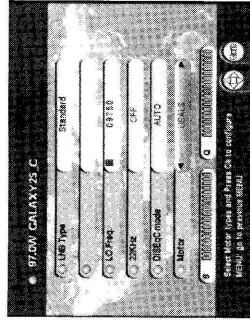
Choose the first satellite to scan.



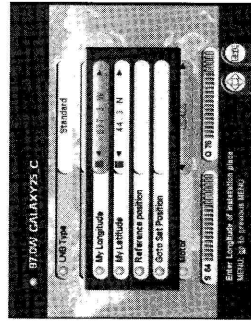
Go into LNB



Choose USALS on Motor button. Then press "OK".



Put your Longitude & Latitude of Installation Place.



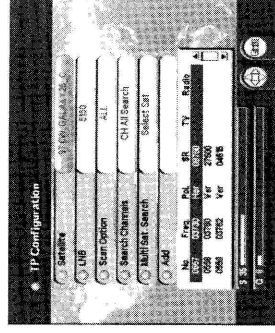
1. Press Right & Left key to set West, East and North, South.
2. Putting Longitude & Latitude required only at first installation.

Go back to Step to and Start to scan satellite.

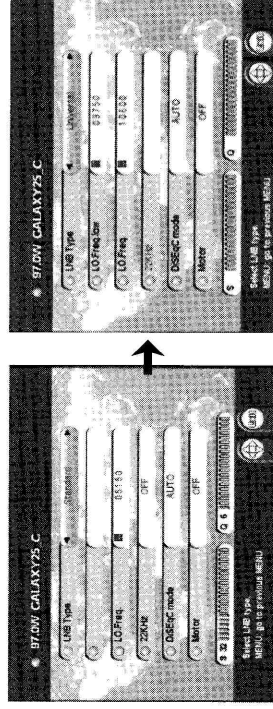
<TP Configuration>

You have to know valid value for your LNB at first.

1. Select TP Configuration of the installation.
2. Select correct name of Satellite. If there is no proper satellite name listed in the item, select one from any of USER1 ~ USER10.



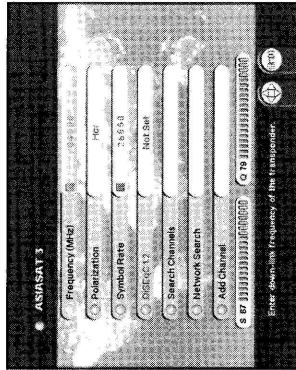
3. To change value of LNB from each satellite, press OK button from LNB.



< Standard >

< Universal >

4. For universal type of LNB, select Universal from LNB Type item and input the LNB frequency value on Freq.High and Freq.Low by using VOL ◀▶ or numeric key.
For standard type of LNB, select Standard from LNB Type and input correct value on Freq..
5. While only 1 antenna is in use, set the 0/12V switch and DiSeqC mode. to Disable. In case of STANDARD, select OFF from 22KHz. If more than 1 antenna is in use, select 0V or 12V from 0/12V SWITCH, or select a proper position from Mini A, Mini B, DiSeqC 1 ~ DiSeqC 4 by different DiSeqC type as you are using DiSeqC switch.
6. Select Search Channels on the TP Configuration press OK, all the available TP will be searched automatically.
7. Move to desired TP with CH ▲▼ on the RCU. If there are no transponder data which you want, move to Add New TP and press OK button.



8. Select the desired satellite. And input correct values of Frequency, Polarization and Symbol Rate. Select the Polarization value as Hor or Ver. If you did not know accurate polarization value select Auto.

Note

You can find the correct data from satellite magazine or internet (<http://www.SATCODX.com> or <http://www.lyngsat.com>)

9. After all the values are input, select Search Channels and wait until the automatic search is complete

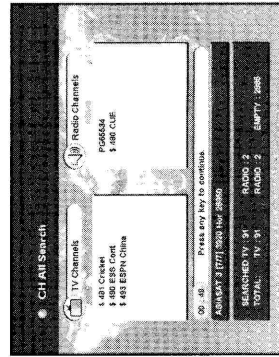
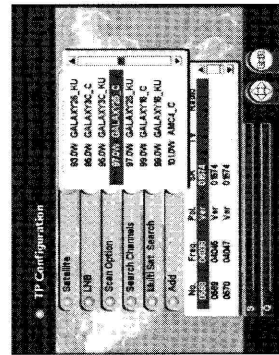
After successful completion of channel searching, move to TV Channels or Radio Channels on MAIN MENU to select currently received channels. Then you should select the TV channel or Radio channel which you want. After then you can watch the TV program or listen to the radio.

Note

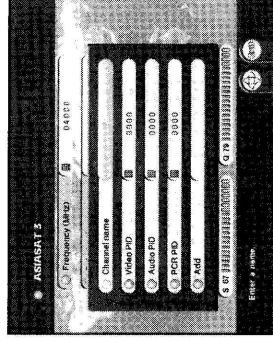
Depending on certain TP or satellite, the Network Search function may not work.

10. To use the Multi Search function, connect the DiSEqC switch or set the DiSEqC 1.2 of Installation. You can search all the channels from the satellites which you select.

Select the satellites by FAV button, and press Multi Search.



11. In case of searching a certain satellite which can not be searched by TP Search, add channels by PID. Select Add Channel and input proper Channel name and input the values of Video PID, Audio PID and PCR PID. Then, press OK button from the Add item.




[Network Search]

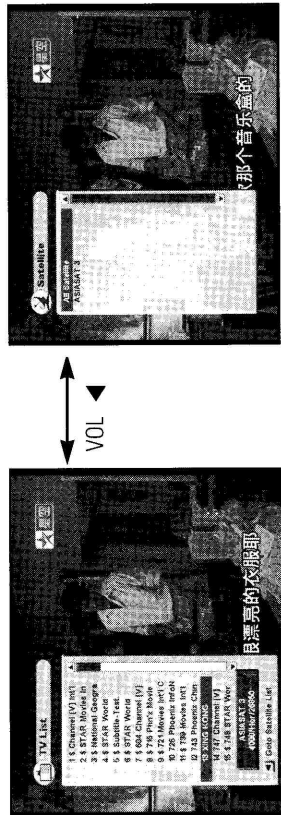
Network search function is enable to search new TPs and all channels in all TPs.

*Network Search : TP Configuration --> Search Channels(Network Search)

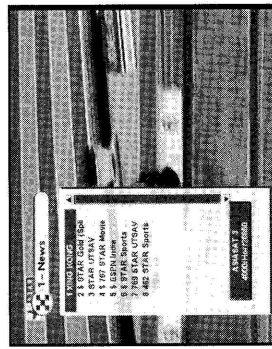
--> Network Search(Search TP)

4.2 Viewing TV(or Radio)

1. Press the Power button.
 2. Press the TV(or Radio) button.
 3. If you want to see all TV channel list, click the MENU button and then select the TV Channels(or Radio Channels). TV Channels(or Radio Channels) window will appear.
- Click the  , you will see current Satellite name box. Select any satellite in the satellite name box, only the TV list of selected satellite will be displayed.



Viewing Favorite Channel

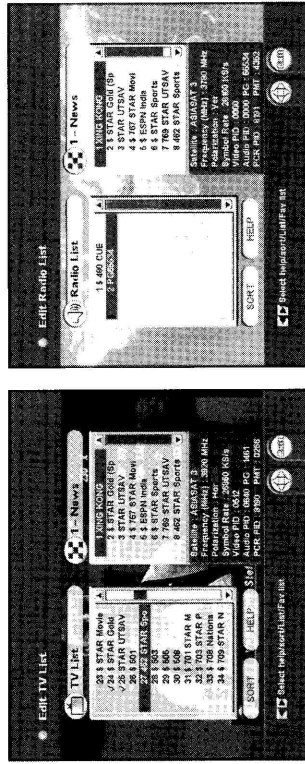


1. Press FAV key.
2. Select a CH   . To move to next or previous page, press PAGE UP/DOWN buttons on Favorite TV(or Radio) List.

Edit TV Channels / Edit Radio Channels

From these menus you can create and edit channel list.

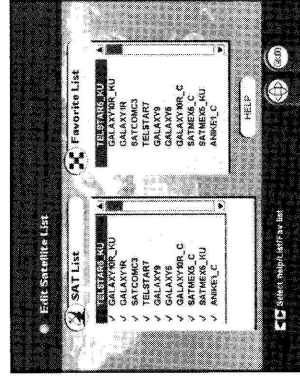
Press OK button from Edit TV Channels and similar screen will be shown as below.



Edit Satellite List.

You can select your own satellites by creating favorite satellite list.

To change the name of satellites, press "INFO" button on RCU.



Arrange channel

To change the channel orders from TV List, press OK button from your desired channel. Then you should move to desired number by pressing CH   after then press OK button. Its orders will be changed.

Delete channel

To delete a certain channel from current TV List, press CLEAR button on the channel to be deleted. To confirm the deletion, press CLEAR button once more. To cancel the deletion procedure, press FAV button.

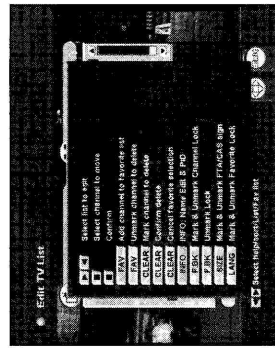
Create favorite channel

You can create favorite channel list, containing the channel which you want to watch frequently.

Press FAV button channel you want, and then selected channel will be moved to Favorite List box. To delete the desired channel from the Favorite List, press CLEAR button.

Help function

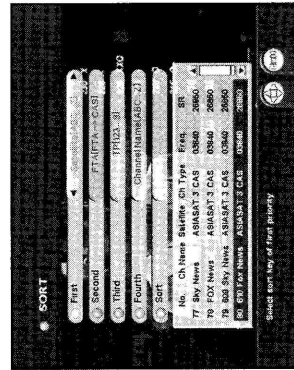
You can see the functions of each button in Edit TV List. Select the HELP button.



Sort

If you want to sort channels in order, select the SORT button in Edit channels.

You can select the order you want.



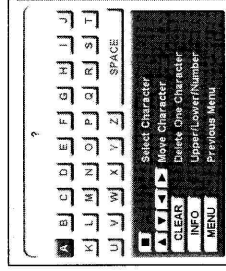
Lock Channels

From here you can lock channels in any of the lists in order to prevent your children from watching.

If you have the password already and want to lock a certain channel, press F.BK button at the desired channel. Everytime you watch the channel, the unit will ask you to input password.

Edit Channel Name

1. Press INFO button on Edit TV or Edit Radio list. Cursor will be moved by using VOL ◀ ▶, CH ▲ ▼.

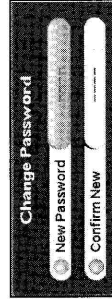


2. Press OK button on desired alphabet. To delete pre-selected alphabet, press CLEAR button.
3. To change character set(upper, lower, number), press INFO button. By using MENU button, it will be automatically stored and moved to previous menu.

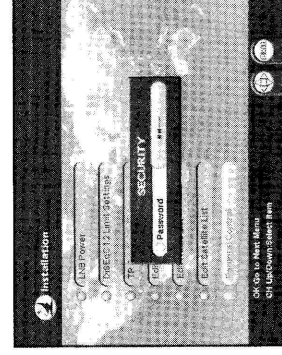
Parental Control

If you use this function you have to enter the password everytime you start this satellite receiver.

1. Select Parental Control on the installation.
2. To secure program setting and installation, select Change Password.



3. Input 4 digits New Password. And input password Confirm New once more. After all the password function is set, the unit will ask you to input password to get into the menus of Installation and System Settings. Input correct password which was already stored.



If the password is forgotten, contact your service provider.

4.3 Other functions

Audio Selection

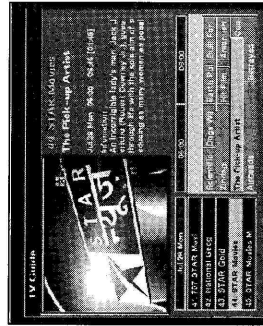
If broadcasting channel is supporting multi language, different language can be selected from Audio Selection.

1. To select different language on current channel, select Audio Selection on the Main Menu.
2. Press OK button on your favorite language.

According to different audio data on each channel, up to 4 different audio language types can be selected.

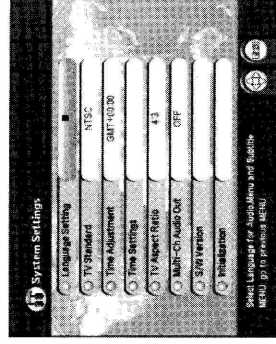
TV Guide

Press GUIDE button of RCU for channel information. This function works in digital mode only.



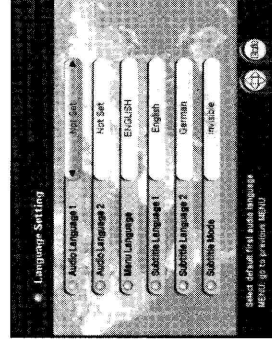
4.4 System Settings

Please make sure to press OK button always, after the changing items of System Settings.



- **Language Setting**

Select the language which you desire to display on the screen for your system. Press OK button to get in more options.



Audio language

Only if a current channel contains 2 or more audio language information, set the Audio Language as English or other favorite language. Then press OK button for its confirmation.

Menu Language

For menu language selection, select desired language from Menu Language of system Settings.

Subtitle Mode

Subtitle is a printed version of the dialogue, narration, and/or sound effects of a TV program. Subtitle will appear at either the top or bottom of the screen during Subtitle Language

Note

Please select the primary and secondary languages in your area.

TV Standard

Except for a few, most countries are using PAL system for TV signal, accordingly set TV Standard as PAL. To be more flexible for NTSC or PAL signal from different satellites, select MULTI for automatic signal conversion. Then press OK button for its confirmation.

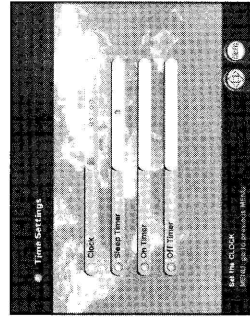
Time Adjustment

To set the receiver time program guide, set the time according to GMT(Greenwich Mean Time) by using CH ▲ ▼. If program guide in England is needed to set, adjust as 00:00. In the case of Beijing, adjust as 08:00.

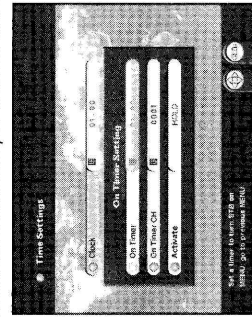
Time Settings

Use clock, sleep, on/off Timer function by choosing time settings menu.

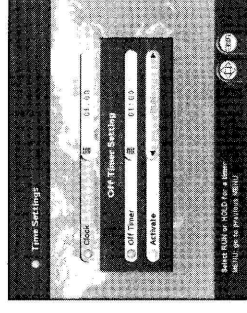
1. Press CH(▲▼) buttons or number buttons to set the local time.
2. Set the time STB turns on with on Timer setting menu.



3. Select a channel you wish to see in running the on Timer function.



4. Set the time STB turns off with off Timer setting menu.



TV Aspect Ratio

Select 4:3 for normal TV or 16:9 for wide TV. Then press OK button for its confirmation. If 4:3 ratio is selected on normal TV for wide channel, both left and right side of the screen will be a bit trimmed. If 16:9 ratio is selected on normal TV for wide channels the screen trim symptom will not occur. However the screen will be in narrow view.

Wide screen will be properly viewed, only when wide channel is broadcasting.

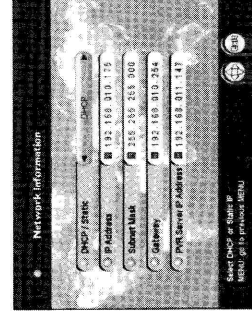
Initialization

Press OK button from Initialization. If you want initialization, select OK button, otherwise, select any button of remote controller. The receiver will be turned off and on automatically after 1~2 seconds to initialize all the values to factory setting mode.

As this procedure will clear and set to factory default values, end users are not recommended to operate this function.

4.5 Internet

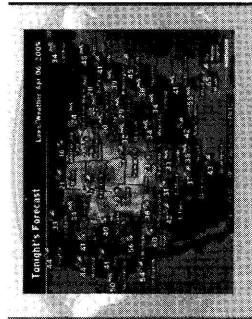
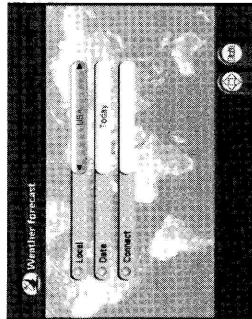
Provide Network Information. If you want to use IP-PVR or weather function, please check this information.



4.6 Weather Forecast

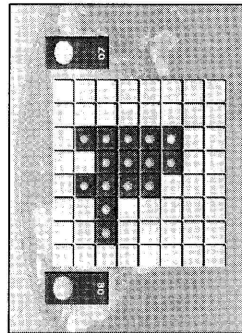
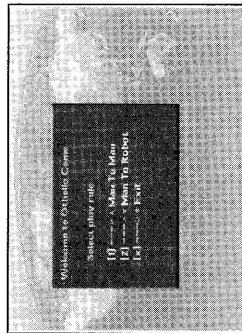
Provide weather information in 5 days by internet.

1. Select country and date.
2. Press OK button on Connect Menu.



4.7 Game

Set up the game rule and player & enjoy playing game.



5.1 Troubleshooting

SYMPTOM	SOLUTION
No picture display and no LED channel display	Check the power connection
No picture display with normal LED channel display	1. Check the connection with TV and receiver cable 2. Check the connection between TV outside input and receiver cable
No satellite channel with MAIN MENU screen on	1. Check the LNB, Frequency, Polarization and Symbol Rate from Installation menu 2. Check the connection of receiver or Antenna angle
No sound with normal screen display	1. Check between sound output connector and TV 2. Check if it is not in MUTE condition
Remote control unit does not work	Check if the batteries in remote control unit are dead

5.2 Specification

LNB/Tuner	RF input frequency RF input level LNB control LNB power LNB tone switch	950 to 2,150MHz -65 to -25dBm DiSEqC1.0/1.2 13V/18V(Max.1,000mA) 22KH \pm 2KHz(0.6Vp-p)
MPEG	Video Audio	MPEG-II Main Profile@Main Level MPEG-II layer I&II
VIDEO	Resolution Video output level Aspect ratio	720 \times 576 1Vp-p into 75 Ω 4:3, 16:9
Audio	Frequency range Sampling frequency Frequency response Audio output level	20Hz to 20KHz 32/44.1/48KHz 20Hz to 20KHz Hi-Fi Quality Digital stereo 2V rms into 600 Ω
General Data	Supply voltage Power consumption Operating temp. Storage temp. Dimensions Weight	100-240V (AC, 50/60Hz) Max.25W 0 $^{\circ}$ C ~ 50 $^{\circ}$ C -40 $^{\circ}$ C ~ 65 $^{\circ}$ C 300(W) \times 230(D) \times 50(H)mm 2.0Kg

5.3 Glossary

LNB

Low Noise Block converter. The LNB is an electronic unit mounted on satellite dish to receive signals reflected by the dish and convert to signals.

L.O. frequency

Local Oscillator frequency as a part of LNB. It converts the satellite frequency to usable signals for the receiver.

Polarization

Polarization allows several programs to be fitted into same frequency band.

Symbol Rate

Size of the digital package transmission

Parental Control

The function is to allow parents to lock channels for unsuitable viewers. A locked program can only be unlocked with the password.

DVB

Digital Video Broadcast. International standard for digital TV broadcasting

MPEG

Moving Picture Experts Group, A system for compression of digital data

RF

Radio Frequency

EPG

Electronic Programming Guide. Program information is displayed on the TV screen, depending upon the satellite condition.

MHz

Abbreviation for Megahertz. The prefix mega means million, and Hertz means cycles per second.

DiSEqC

Digital Satellite Equipment Control

NTSC

National Television Standards Committee

PAL

Phase Alternate Line

Ku band

11~18GHz Frequency

C band

3~4GHz Frequency

SCPC

Single Channel Per Carrier

MCPC

Multi Channel Per Carrier

PID

Packet Identifier.

TP

TransPonder

SCART, RCA

A connector for connection of Satellite receiver, VCR and TV sets.

VCR

Video Cassette Recorder.