STRONG
DIGITAL TV

Digital Free-To-Air Terrestrial Receiver PRIMA II

User Manual
Bedienungsanleitung
Manuel d'utilisation
Manuale d'uso
Manuel de Usario
Návod k obsluze

www.strong.tv

Safety Instructions

- Always read the safety instructions carefully
- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- Lay this equipment on a reliable flat surface before setting it up. Do not stand it on soft furnishings.
- If any of the following situation arises, get the equipment checked by a service technician:
  - ✍ The equipment has been exposed to moisture.
  - ✍ The equipment has been dropped and damaged.
  - ✍ The equipment has obvious sign of breakage.
  - ✍ The equipment has not been working well or you cannot get it work according to User's Manual.

Warning

- To prevent the risk of electric shock, do not open the cover or the back of the receiver.
- Do not block the ventilation holes of the device. Leave appropriate gap above and around it to allow for adequate ventilation.
- Do not place the device in an unventilated cabinet or on top of a unit which emits heat.

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Disclaimer

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The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

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1. Introduction

PRIMA II is a Free-To-Air digital terrestrial receiver, allowing you to access free-to-air digital terrestrial TV channels and radio broadcasts on your TV set. Its digital reception covers VHF & UHF band. Compared with the analog TV programs, digital TV programs eliminate the noise and interference but offer high quality video and audio. An on-screen initial installation guide is provided so that you can easily start to enjoy watching the programs. In addition, a fully featured remote controller is included that offers you access to every feature with a simple press of a button.

1.1 Main Features

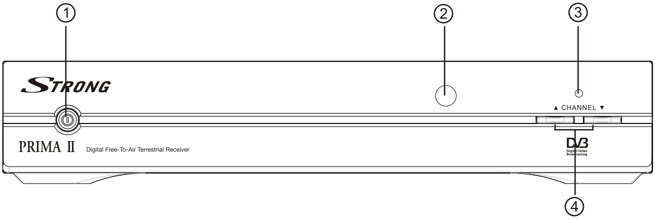
Fully complies with European DVB-T standard
MPEG2 ISO/IEC 13818 transport stream compliant audio/video decoding
Bandwidth of 6/7/8MHz supported
COFDM demodulator
Automatic/manual channel search
Channel edit, moving and deletion
Parental lock control
NTSC/PAL converting automatically and manually
EPG (Electronic Program Guide) and Teletext function
Multiple-language OSD (English, German, French, Italian, Spanish, Czech)
Supports multi-subtitle
RS-232 serial port for software upgrade
2 SCARTs (TV SCART output/VCR SCART input)
Tuner RF in/loop through
Active antenna support (5 volt)
SDTV only
Full function remote control

1.2 Accessories

Before installation, please check the items of the package.
The package should contain the following items:
~ PRIMA II Receiver x1
~ Remote Controll x1
~ AAA Battery for the remote controller x2
~ User's Manual x1

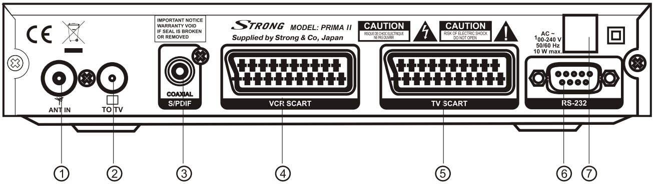
2. Front Panel and Rear Panel Illustration

2.1 Front panel


①
②
③
STRONG
▲ CHANNEL ▼
PRIMA II
Digital Free-To-Air Terrestrial Receiver
DVB
Digital Video Broadcasting
④

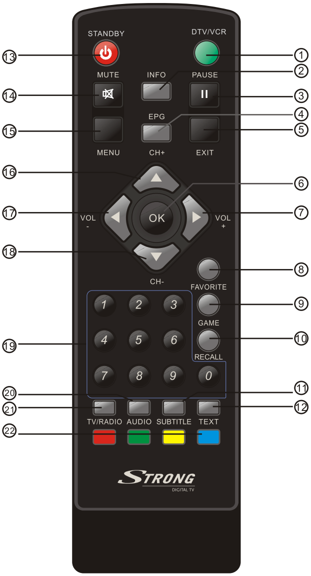
① **POWER BUTTON:** Used to turn on/off the main power supply.
② **REMOTE CONTROL SENSOR:** Used to receive the signal from the remote control.
③ **STANDBY INDICATOR:** Used to visually show power state of the receiver, the green LED will be light if turned on the receiver and the red LED will be light if the receiver entered standby mode.
④ **CHANNEL UP/DOWN:** Used to change channels without using the remote control.

2.2 Rear panel


CE
IMPORTANT NOTICE
WARRANTY VOID
IF SEAL IS BROKEN
OR REMOVED
STRONG MODEL: PRIMA II
Supplied by Strong & Co, Japan
CAUTION
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
AC ~
100-240 V
50/60 Hz
10 W max.
ANT IN
TO TV
COAXIAL
S/PDIF
VCR SCART
TV SCART
RS-232
①
②
③
④
⑤
⑥
⑦

① **ANT IN :** This socket connects to your external aerial.
② **TO TV:** This socket will bypass the RF signal to either your TV or another video system.
③ **S/PDIF COAXIAL:** This socket connects to a coaxial socket on your surround sound system.
④ **VCR SCART:** This socket connects to either a DVD or other video system.
⑤ **TV SCART:** This socket connects to your TV.
⑥ **RS-232 PORT:** This socket is only used for software upgrade.
⑦ **MAINS CABLE:** This is used to connect to your main power supply.

2.2 Remote Controll



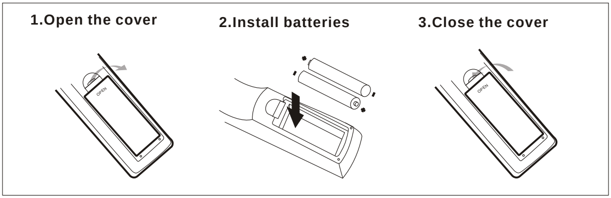
Remote Key Function:

1. DTV/VCR: To switch between the VCR SCART input and the DTV output mode.
2. INFO: To display information about the channel being viewed or further information about the program when in small EPG screen.
3. PAUSE: To pause the program being viewed.
4. EPG: To display information about the program being viewed and what's on next.
5. EXIT: To return to the previous screen or menu.
6. Ok: To confirm a selection within a menu.
7. VOL+: To move around the menu screens or changing the volume in non-menu state.
8. FAVORITE: To access your favourite channels.
9. GAME: To select 3 built-in mini games: Mine, Tetris, Gomoku, and the Calendar.
10. RECALL: To switch between the last two viewed channels.
11. SUBTITLE: To switch between different subtitles or select subtitle to On that are broadcasted
12. TEXT: To open teletext OSD display if teletext available in the broadcasted stream.
13. STANDBY: To switch the receiver to on and standby.
14. MUTE: To turn the sound on or off directly.
15. MENU: To open the main menu window.
16. CH+: To move around the menu screens or selecting the channels in non-menu state.
17. VOL-: To move around the menu screens or changing the volume in non-menu state.
18. CH-: To move around the menu screens or selecting the channels in non-menu state.
19. NUMBER KEYS: To select channel numbers or input numbers in menus.
20. AUDIO: To set the sound output, the available settings are STEREO, LEFT, RIGHT, MONO.
21. TV/RADIO: To switch between TV channels and Radio stations.
22. COLOR KEYS(RED/GREEN/YELLOW/BLUE): To operate different functions in TEXT screen or other menus.

Note: SUBTITLE/TEXT/LANGUAGE may not be available for all channels

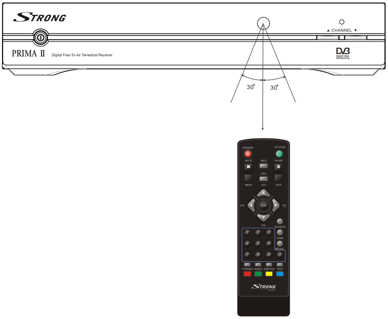
2.3 Installing the Batteries

Remove the battery cover from the remote control and put 2XAAA size batteries inside the compartment.
The diagram inside the battery compartment shows the correct way to install the batteries.


1.Open the cover
2.Install batteries
3.Close the cover
OPEN
OPEN

2.4 Using the Remote Control

To use the remote control, point it towards the front of the digital receiver
The remote control has a range of up to 7 metres from the receiver at an angle of up to 60 degrees.


STRONG
PRIMA II
Digital Free-To-Air Terrestrial Receiver
▲ CHANNEL ▼
30°
30°
OK
STRONG

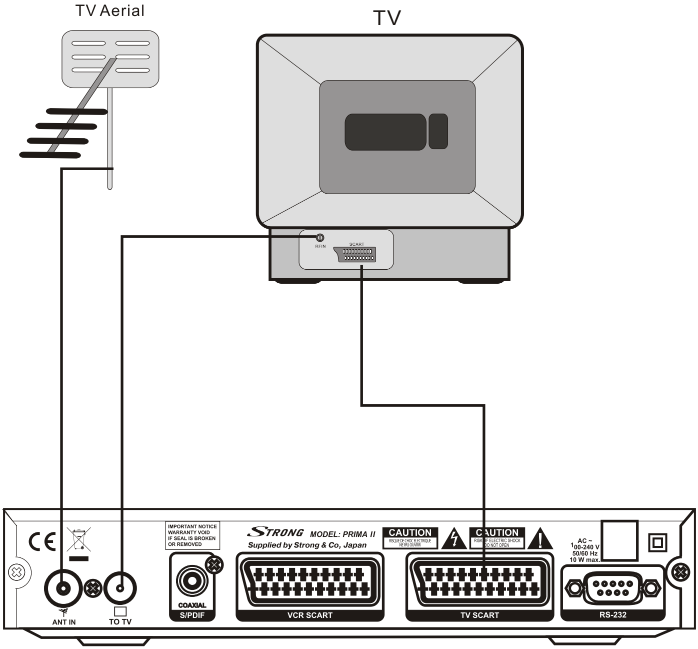
The remote control will not operate if its path is blocked.

Sunlight or very bright light will decrease the sensitivity of the remote control.

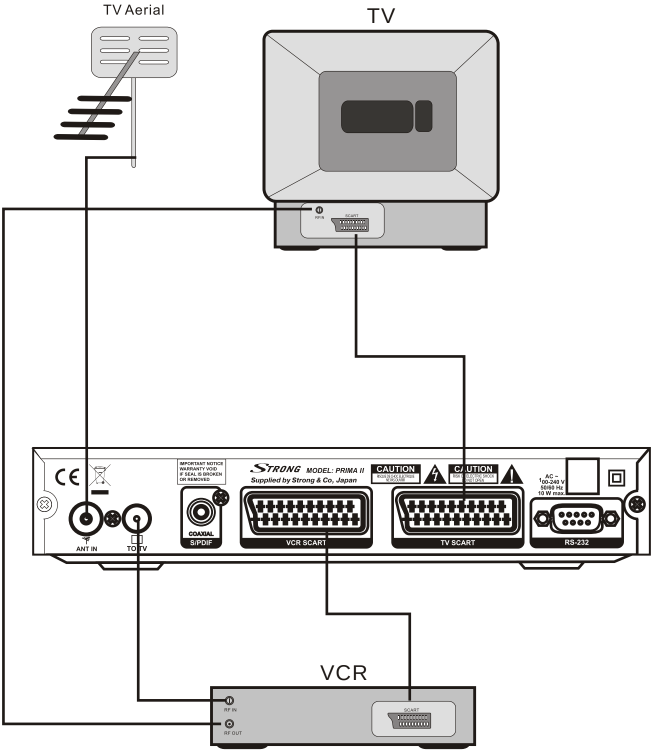
3. Connections

Caution: Make sure to check the voltage specification of the wall outlet is the same rating with the receiver. To prevent the risk of electric shock, do not open the cover or the back of the receiver.

3.1 Connecting to a TV Set


TV Aerial
TV
RFIN
SCART
IMPORTANT NOTICE WARRANTY VOID IF SEAL IS BROKEN OR REMOVED
STRONG MODEL: PRIMA II
Supplied by Strong & Co, Japan
CAUTION
CAUTION
AC ~ 100-240 V 50/60 Hz 10 W max.
ANT IN
TO TV
COAXIAL
S/PDIF
VCR SCART
TV SCART
RS-232

3.2 Connecting to TV and VCR

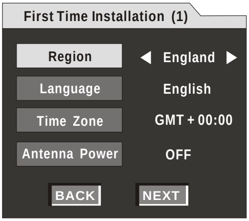

TV Aerial
TV
RFIN
SCART
IMPORTANT NOTICE
WARRANTY VOID
IF SEAL IS BROKEN
OR REMOVED
STRONG MODEL: PRIMA II
Supplied by Strong & Co, Japan
CAUTION
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
AC ~
100-240 V
50/60 Hz
10 W max.
ANT IN
TO TV
COAXIAL
S/PDIF
VCR SCART
TV SCART
RS-232
VCR
RF IN
RF OUT
SCART

Note: When connecting the receiver to other equipment, e.g., TV, VCR and amplifier, make sure to refer to relevant user manual for instruction. Also, make sure you disconnect all the equipments from the mains supply before the connection.

4. First Time Installation

After all the connections have been made properly, switch on your TV. Make sure the receiver is connected to the mains and press **Power** to switch the receiver on. If you are using the receiver for the first time, a **First Time Installation** menu will be displayed to guide you through the initial setup. Use the remote controller to finish the setup.

1. At the **First time installation** menu, select in first step your regional settings, for next step press ⌄ on the remote control.
2. Select then you're OSD Language, Time Zone and Antenna Power. If you use an active antenna please select Antenna Power to ON. Then select **NEXT** to proceed.



First Time Installation (1)

Region ◀ England ▶

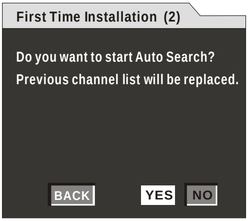
Language English

Time Zone GMT + 00:00

Antenna Power OFF

Note: Make sure to select the region you are located since the receiver will scan the channels based on the bandwidth of the region you selected. If your region is not on the list, you are recommended to conduct a manual search. Refer to " Manual Search " on page 16 for details.

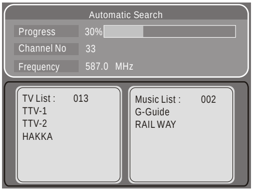
2. Select **Yes** to start the automatic channel search.



First Time Installation (2)

Do you want to start Auto Search?
Previous channel list will be replaced.

3. Wait to complete the scanning.
   In case you want to stop the scanning, press the **EXIT** key.
   The channels already found will still be stored.



Automatic Search

Progress 30%
Channel No 33
Frequency 587.0 MHz

TV List : 013
TTV-1
TTV-2
HAKKA

Music List : 002
G-Guide
RAIL WAY

4. When finished, all active channels found will be stored automatically. The last found channel will be played.

Now you are ready to watch digital terrestrial TV channels and radio broadcasts.

In case you skip the **First Time Installation** screen, you can still specify your **Regional Setting** and **Program Search** via the on-screen setup menu.

The **Regional Setting** menu can be accessed via **Main Menu** > **System Settings** > **Regional Setting.** Refer to " Regional Setting " on page 20 for details.

The **Program Search** menu can be accessed via **Main Menu** > **Program Search** > **Automatic Search / Manual Search.** Refer to " Automatic Search " on page 15 for details.

5. Basic Operations

Once program search is completed, you can start to watch digital terrestrial TV channels and radio broadcasts. Some typical operations are given in this chapter.

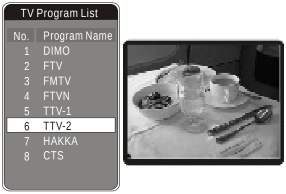
5.1 Switching On and Off

Whenever you are not using the receiver for a long time, press the button on the front of receiver. It will switch MAIN power totally OFF. For daily us, you can just us the **Standby** key on remote control to put it into standby mode.

5.2 Changing Channels

To switch between different channels, you can:

- Press **OK** to display the channel list and **UP/DOWN** to select a desired channel.

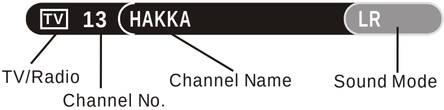


TV Program List

No.	Program Name
1	DIMO
2	FTV
3	FMTV
4	FTVN
5	TTV-1
6	TTV-2
7	HAKKA
8	CTS

- Press the **CH+ / CH-** key or buttons on the receiver to go to the previous/ next channel.
- Use the numeric keys to select a channel number.
- Use the **RECALL** key to return to the previous viewed channel.

Whenever you change a channel, a banner appears at the bottom of the screen displaying the basic information on the current channel.



5.3 Adjusting the Volume

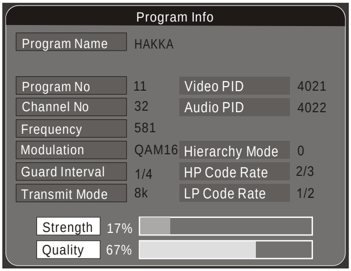
Press the **VOL+ / VOL-** key to adjust the volume.

5.4 Watching Favorite List

You can press **FAVORITE** to watch your preset favorite channels. To create your favorite list, go to **Main Menu** > **Program List.** Refer to " Creating Favorite Channel Groups " on page 13 for detailed information.

5.5 Displaying information

To display the detailed information of the current channel, press the **INFO** key.



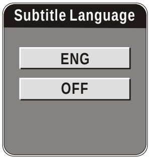
Program Info

Program Name	HAKKA		
Program No	11	Video PID	4021
Channel No	32	Audio PID	4022
Frequency	581		
Modulation	QAM16	Hierarchy Mode	0
Guard Interval	1/4	HP Code Rate	2/3
Transmit Mode	8k	LP Code Rate	1/2

Strength 17%
Quality 67%

5.6 Choosing Subtitle

You can press the **SUBTITLE** key to select or close subtitles on the screen. The available subtitles depend on the broadcaster.



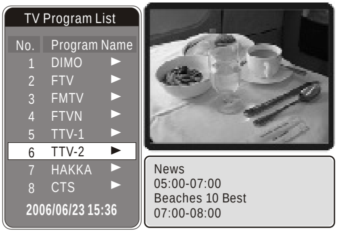
5.7 Freezing

When watching a channel, you can freeze the current screen by pressing the **PAUSE** key. Pressing it again disables the freeze function.

5.8 Displaying EPG

To view the EPG (electronic program guide) provided by the content provider:

1. Press the **EPG** key and then use the **Up / Down** key highlight a desired channel to preview the EPG. To view today's complete EPG, press the **Right** key.



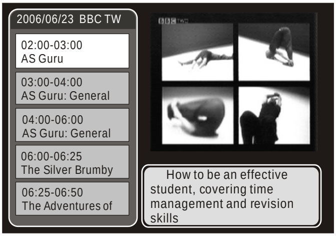
TV Program List

No.	Program Name
1	DIMO ►
2	FTV ►
3	FMTV ►
4	FTVN ►
5	TTV-1 ►
6	TTV-2 ►
7	HAKKA ►
8	CTS ►

2006/06/23 15:36

News
05:00-07:00
Beaches 10 Best
07:00-08:00

2. When today's complete EPG is displayed, use the **Up / Down** key to scroll along the EPG. To view the EPG of next/previous day, press the **UP / Down** key continuously.
To see the highlighted EPG details, press the **Right** key.



2006/06/23 BBC TW

02:00-03:00
AS Guru

03:00-04:00
AS Guru: General

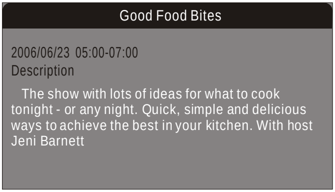
04:00-06:00
AS Guru: General

06:00-06:25
The Silver Brumby

06:25-06:50
The Adventures of

How to be an effective student, covering time management and revision skills

3. The detailed EPG screen will show as below if pressed the **Right** key.



Good Food Bites

2006/06/23 05:00-07:00
Description

The show with lots of ideas for what to cook tonight - or any night. Quick, simple and delicious ways to achieve the best in your kitchen. With host Jeni Barnett

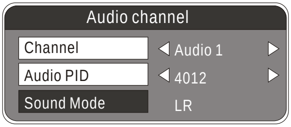
4. To exit the detailed EPG screen, press the **Left** key.

5.9 Displaying Text

Press the **TEXT** key to start teletext function. If teletext is transmitted, press **CH+** key and **OK**. Press **EXIT** key to close it.

5.10 Selecting Sound Mode

To switch the sound mode between Left, Right and Stereo, press the **Audio** key to open this menu.



Audio channel
Channel
Audio PID
Sound Mode

Channel ◁ Audio 1 ▷
Audio PID ◁ 4012 ▷
Sound Mode LR

6. Using the On-Screen Setup Menu

The receiver features an on-screen menu providing access to a variety of setup and management controls. Use the remote controll to navigate through the menu and activate required settings.

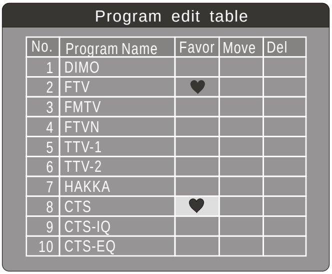
6.1 Managing Program List

Main Menu > Program List > TV / Radio Program List All active channels are listed in the **Program List,** allowing you to make your own favorite channel group, move, delete or sort channels.

6.2 Creating Favorite Channel Groups

This feature allows you to group your favorite channels. To create your favorite groups:

1. Select the channel which you would like to add to the group and go to the **Favor** column.
2. When the **Favor** column of the desired channel is highlighted, one red heart symbol would appear after pressed the **OK** key. Pressing the **OK** key again will un-select the channel from the favorite group.
3. Once your favorite group is created, you can press the **FAVORITE** keys to quickly access your favorite channels.

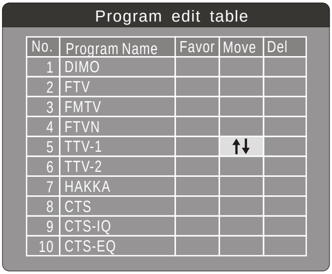


Program edit table

No.	Program Name	Favor	Move	Del
1	DIMO			
2	FTV	♥		
3	FMTV			
4	FTVN			
5	TTV-1			
6	TTV-2			
7	HAKKA			
8	CTS	♥		
9	CTS-IQ			
10	CTS-EQ			

6.3 Moving a Channel

1. Select the channel which you like to move and go to the **Move** column.
2. Press **OK** and on ↓ ↑ symbol will be displayed.
3. Use the **Up / Down** key to move the channel to a desired position.

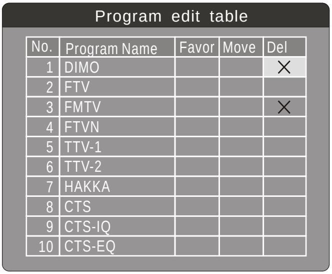


Program edit table

No.	Program Name	Favor	Move	Del
1	DIMO			
2	FTV			
3	FMTV			
4	FTVN			
5	TTV-1		↑↓	
6	TTV-2			
7	HAKKA			
8	CTS			
9	CTS-IQ			
10	CTS-EQ			

6.4 Deleting a Channel

1. Select the channel which you like to delete and go to the **Del** column.
2. Press **OK** and an **X** symbol will be displayed. Repeat this step in the channel to be deleted.
3. Press **EXIT** or **MENU** and the marked channel will be deleted.

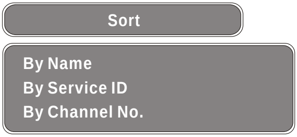


Program edit table

No.	Program Name	Favor	Move	Del
1	DIMO			×
2	FTV			
3	FMTV			×
4	FTVN			
5	TTV-1			
6	TTV-2			
7	HAKKA			
8	CTS			
9	CTS-IQ			
10	CTS-EQ			

6.5 Sorting Channels

1. Go to **Main Menu** > **Program List** > **Sort.**
2. You can sort the channels by the channel name, service ID or channel number. Select one method as required.

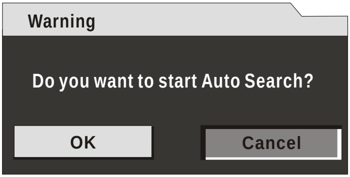

Sort
By Name
By Service ID
By Channel No.

3. Press **MENU** or **EXIT** to return the program list. The list is now sorted by the specified order.

6.6 Program Search

Automatic Search

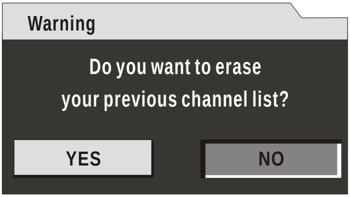
1. Enter the **Automatic Search** menu via **Main Menu** > **Program Search** > **Automatic Search.**
2. Select **OK** to start auto search.


Warning

Do you want to start Auto Search?

OK
Cancel

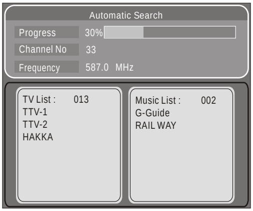
3. Select whether to erase your previous channel list as required.


Warning

Do you want to erase your previous channel list?

YES
NO

4. Wait to complete the scanning.
In case you want to stop the scanning, press the **EXIT** key. The channels already found will still be stored.



Progress 30%
Channel No 33
Frequency 587.0 MHz

TV List : 013
TTV-1
TTV-2
HAKKA

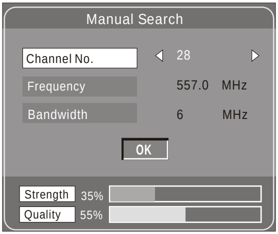
Music List : 002
G-Guide
RAIL WAY

5. When finished, the last found channel will be played.

6.7 Manual Search

If any channel is missing after auto search, or you want to add newly launched channels, you can use **Manual Search** to scan the desired channels. To manually search the target channel, you must know its parameters, e.g., the channel number. After the channel is found, it is appended to the current channel list.

1. Enter the **Manual Search** menu via **Main Menu** > **Program Search** > **Manual Search.**
2. Specify the appropriate channel number in the **Channel No** field by pressing **Right/Left** or the numeric keys. Upon your selection, the frequency and bandwidth values are changed accordingly.
3. Select **OK** to start manual search.



Channel No. 28
Frequency 557.0 MHz
Bandwidth 6 MHz

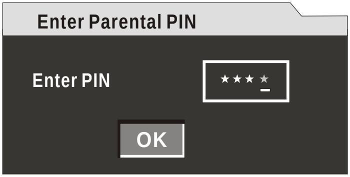
Strength 35%
Quality 55%

4. If no signal is found, a message indicating no signal will appear. Otherwise scanned channel will be saved and appended to the current channel list.

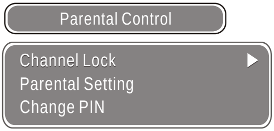
6.8 Parental Control

This feature allows you to prevent children or unauthorized people from watching channels.

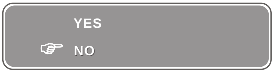
1. Go to **Main Menu** > **Parental Control.** First, you will need to enter PIN as prompted to use the parental control menu.
The default PIN is 0000


Enter Parental PIN
Enter PIN
★★★★
OK

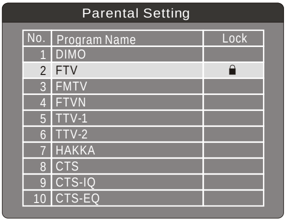
2. After correct PIN input, the following options are provided:


Parental Control
Channel Lock
Parental Setting
Change PIN

Channel Lock: Allows you to activate or de-activate the overall parental control. When set to **YES,** all the channels with locking settings will be locked.



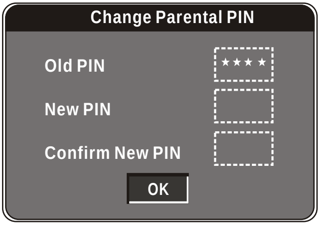
Parental Setting: In the channel list, select the channel you want to lock and then press **OK.** A padlock symbol will be displayed. To remove the lock, press **OK** again.



Parental Setting

No.	Program Name	Lock
1	DIMO	
2	FTV	🔒
3	FMTV	
4	FTVN	
5	TTV-1	
6	TTV-2	
7	HAKKA	
8	CTS	
9	CTS-IQ	
10	CTS-EQ	

Change PIN: Allows you to change the PIN. A PIN can be composed of 1 to 4 digits. To change the PIN, enter the old, new PIN in the provided fields. After pressing **OK,** a message indicating **PIN Code Changed** will appear.



Change Parental PIN

Old PIN ★★★★

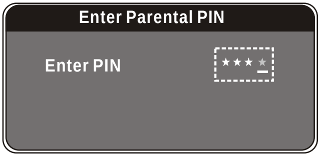
New PIN

Confirm New PIN

Note: To activate the parental control feature, **Channel Lock** must be set to **YES.** If you want to lock particular channels while keeping other channels unlocked, use **Parental Setting** table to make the settings.

6.9 Watching Locked Channels

Once a channel is locked, whenever one want to watch the locked channel, correct PIN must be entered.



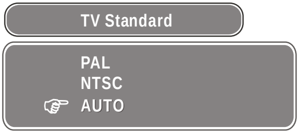
Enter Parental PIN

Enter PIN ★★★★

7. System Settings

7.1 TV Standard

This option allows you to select your TV system among **PAL, NTSC** and **Auto.**



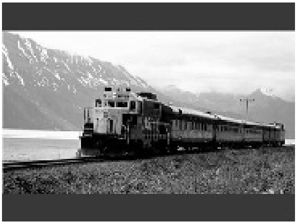
TV Standard

PAL
NTSC
☞ AUTO

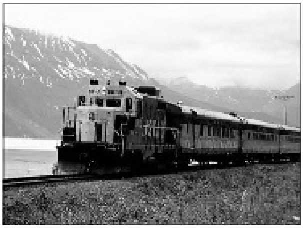
7.2 Display Type

This option allows you to select the aspect ratio of the video output.
If you are using normal 4:3 TV, it is OK to view the regular 4:3 content being broadcasted. But occasionally broadcasters transmit widescreen content; in this situation, you can choose how to display it in a conventional TV set.

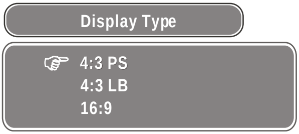
- **4:3 LB (Letterbox)** For conventional 4:3 TV. The full width of a widescreen content is displayed on a normal TV with black bars above and below the picture.



- **4:3 PS (Pan & Scan)** For conventional 4:3 TV. It crops the left and right edges of a widescreen content to fit a normal TV.



- **16:9 -** If you are using a wide screen TV, select this option.

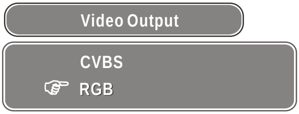


Display Type

☞ 4:3 PS
4:3 LB
16:9

7.3 Video Output

Set the video mode as **CVBS** or **RGB.**



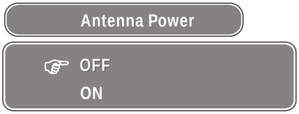
Video Output

CVBS
☞ RGB

7.4 Antenna Power

The default setting is **OFF.** Set this option to **ON** if this receiver box is connected to an external active antenna that amplifies the received signal**.** This receiver box can supply 5V DC at 50mA maximum.

Caution: If you are using a normal passive antenna, make sure to set this setting to **OFF .**



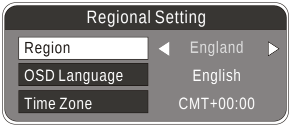
Antenna Power

☞ OFF
ON

7.5 Regional Setting

Region: Select the region or country you are located. Depending on the country you select, the on-screen-display language and time zone settings change accordingly. **OSD Language:** Select the on-screen-display language as required.

Time Zone: Select an appropriate time zone to display the local time correctly. Both EPG and system schedule need a correct time zone setting.



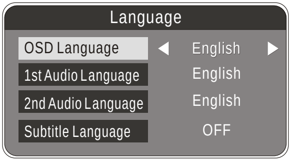
Regional Setting

Region ◀ England ▶
OSD Language English
Time Zone CMT+00:00

7.6 Language

OSD Language: Select the on-screen-display language as required. **1 st /2nd Audio Language:** This option allows you to select your first and second choice for the audio language. If neither of your selected language is available on the program transmitted, the main language of the program will be used. You can alternatively press the **AUDIO** key to use another available language.

Subtitle Language: Allows you to select the subtitle language. If your selected language is not available on the program transmitted, the main language of the program will be used. You can also select **OFF** to close the subtitle on the screen.



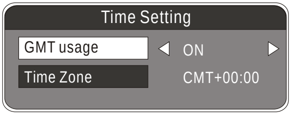
Language

OSD Language ◀ English ▶
1st Audio Language English
2nd Audio Language English
Subtitle Language OFF

7.7 Time Setting

Select an appropriate time zone to display the local time correctly. Both EPG and system schedule need a correct time zone setting.

GMT usage: Allows you to enable/disable Greenwich Mean Time (GMT) usage. If you know the GMT time zone of your location, set **GMT usage** to **ON** and select an appropriate time zone. If you prefer to set the time manually, select **OFF** in **GMT usage** item and then manually select the date and time.



Time Setting

GMT usage ◀ ON ▶
Time Zone CMT+00:00

7.8 System Schedule

This feature allows the receiver to automatically switch on and tune to a pre-specified channel for a pre-set length of time. You can use this feature to schedule recording if your receiver is connected to a VCR or recorder or as reminders of certain programs. Up to 10 tasks can be scheduled.

1. In the **Schedule** pane, use the **Up / Down** key to select a task and use **Right / Left** key to switch between **Inactive** and **Active.**
2. Press **OK** to enter the **Detail** pane.
3. Enter the following settings as required. Use the **Up / Down** key to move between setting items, the **Right / Left** key to switch between available selections and numeric keys to enter numeric value.

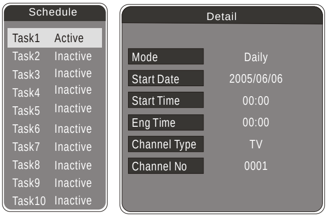
Mode: You can repeat the task by setting the frequency as **Once, Daily** or **Weekly.** Or you can select **Stop** to disable the task.

Start and End Time: Enter the start and end time that automatically turns on and off the receiver.

Channel Type: Select TV or radio channel as required.

Channel No: Select the channel to be played at scheduled time.

4. When the setting is done, press **MENU** or **EXIT** to save the changes.



Schedule

Task1	Active
Task2	Inactive
Task3	Inactive
Task4	Inactive
Task5	Inactive
Task6	Inactive
Task7	Inactive
Task8	Inactive
Task9	Inactive
Task10	Inactive

Detail

Mode	Daily
Start Date	2005/06/06
Start Time	00:00
Eng Time	00:00
Channel Type	TV
Channel No	0001

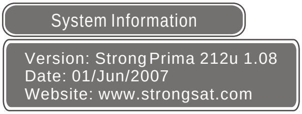
7.9 Game

This option includes 4 built-in mini games: **Mine, Tetris, Gomoku, Calendar.**

7.10 Accessory

System Information

This option allows you to view the current system information.

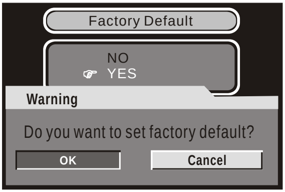


Version: Strong Prima 212u 1.08
Date: 01/Jun/2007
Website: www.strongsat.com

7.11 Factory Default

This option allows you to resume factory defaults.

1. To reset defaults, select **OK.**

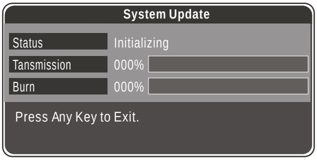


Do you want to set factory default?

2. All programs you have searched will be erased and all parameters, e.g., the regional settings, languages and favorite lists, will return to the factory default.
3. After restoring defaults, a **First Time Installation** screen appears asking if you would like to conduct an automatic scan search.

7.12 System Update

Whenever a software update is available, the receiver can be upgraded for new features.

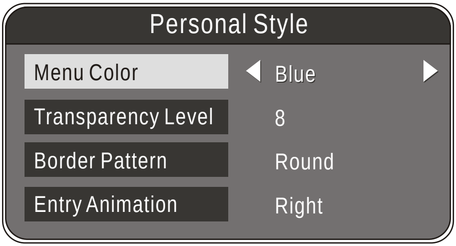


Status Initializing
Tansmission 000%
Burn 000%

Press Any Key to Exit.

7.13 Personal Style

This option allows you to customize the menu settings.
You can set the **Menu Color**, **Transparency level**, **Border Pattern** and **Entry Animation** as preferred.



Personal Style

Menu Color	Blue
Transparency Level	8
Border Pattern	Round
Entry Animation	Right

8. Troubleshooting

If you experience problems with this receiver or its installation, in the first instance please read carefully the relevant sections of this User Manual and this Troubleshooting section.

Problem	Possible cause	What to do
Standby light not lit	Mains lead unplugged	Check mains lead
	Mains fuse blown	Check fuse
No signal found	Aerial is disconnected Aerial is damaged/misaligned	Check aerial lead Check aerial
	Out of digital signal area	Check with dealer
No picture or sound	Viewing incorrect SCART output	Press the DTV/VCR button
	Tuned to digital teletext channel	Retune to another channel
Mosaic blocks in picture or picture freezes	Aerial may not be compatible	Check aerial
Scrambled channel message	Channel is scrambled	Select an alternative channel
Forgotten channel lock code		Re-install channels to cancel channel lock
No response to remote control	Receiver off	Plug in and turn on receiver
	Handset not aimed correctly	Aim handset at front panel
	Front panel obstructed	Check for obstructions
	Remote control batteries are inserted incorrectly	Check batteries direction
	Handset batteries exhausted	Replace remote control batteries
After moving the receiver to another room, find can't receive the digital reception	The aerial feed may come through a distribution system which may reduce the digital signal now received by the receiver	Try a direct feed from the antenna

Demodulation
Demodulator: COFDM
OFDM Modulation: 2k, 8k FFT, SFN and MFN
Packet Carries: 2k/8k
Guard Interval: 1/4, 1/8, 1/16, 1/32

Tuner
Frequency Range: 174 230 MHz (VHF), 470 862 MHz (UHF)
Input Impedance: 75 Ohms unbalanced
Signal Input Level: -78 ~ -25 dBm
Bandwidth: 6 / 7 / 8 MHz

Decoder
Video: MPEG2 Transport MP@ML
Audio: MPEG2 Audio Layer I&II

Display
Decoder Module: PAL, NTSC
Resolution: 720 x 576 (PAL); 720 x 480 (NTSC)
Aspect Ratio: 4:3 (Letterbox, Pan & Scan), 16:9

Connectors
ANT IN IEC 169-2 female connector
TO TV IEC 165-2 male connector
TV SCART composite video (CVBS), RGB, audio L/R
VCR SCART composite video, audio L/R
RCA - S/PDIF coaxial for digital audio output
RS-232 9 pin male serial port, for software upgrade

General Data:
Supply Voltage : 100~240 V AC (SMPS), 50/60 Hz
Power Consumption (max): 10 W
Standby Power Consumption: 5 W
Operating Temperature: 0°~ 40°C
Storage Temperature: -30°~ 80°C
Operating Humidity Range: 10~85%, RH, Non-condensing
Net-weight: 0.82 kg
Size (WxDxH) in mm: 220 x 165 x 45

Environmental Issues

**Strong is committed to reducing the impact of its products on the environment.
To maximise the benefits of our design enhancements, your co-operation is required.**

Electronic product recycling

Do not dispose of this product with your domestic rubbish.

At the end of its useful life, this product contains materials which when processed correctly can be recovered and recycled. By participating in the responsible recycling of this product you will be reducing the requirement for new raw materials and reducing the amount of material that would otherwise end up in landfill.
When you purchase a new, similar product your retailer may offer to take this old one off you. Alternatively, you can take it to your local recycling centre. Your retailer or local municipal authority will advise you of the collection facilities available for waste electronically products in your area. User of this service will be free to you.

Within the scope of the European legislation on Waste Electrical and Electronic Equipment (Directive 2002/96/EC valid as of August 2005) STRONG provides a recycling system free of charge for consumers to returning products after end of life. For more information about STRONG’s environmental policy to you:

www.strongsat.com - select “*About us*” and “*Environmental Policy*“ from the submenu.

Packaging

When disposing of this product packaging, please ensure that it is recycled. Packaging material is to be depolluted in waste separation.

DER GRÜNE PUNKT

Power Saving

To save power and money, please put the product into standby mode when not in use. We also recommend disconnection from mains supply when not in use for longer periods of time.

Batteries

Do not dispose of the batteries from your handset with your domestic waste.

Where they are available, participate in your local municipal or retailer collection schemes for spent batteries. Batteries discarded in landfill sites or incinerated increases the chances of pollutants being dispersed into the atmosphere.

Alternations reserved 9/2005