

IMPORTANT SAFETY INSTRUCTIONS



All the safety and operating instructions should be read before operating this product. The safety and operating instructions should be retained for future reference.

All warnings on the product and in the operating instructions should be adhered to.

All operating and usage instructions should be followed.

Unplug this product from the wall outlet before cleaning.

Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning and place the receiver in well ventilated and no-heat environment. Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near swimming pool, and the like. Do not place this product on an unstable cart, stand, tripod, bracket, or table.

The product may fall, causing serious injury to a child or an adult and serious damage to the product. Use only with a cart, stand tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacture's instructions, and should use a mounting accessory recommended by the manufacturer.

This apparatus shall not be exposed to dripping or splashing and that no object filled with liquids, such as vases, shall be placed on the apparatus.

The main plug is used as the disconnect device. The disconnect device shall remain operable.



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1. Introduction



1-1 Main Features

120 programmable satellites / 6,000 programmable channels
950~2150 Mhz IF range
2 Slot Common Interface (CI Model Only)
MCPC/SCPC, C/KU reception
Fully MPEG 2 / DVB compliant
1 LNB input, IF loop through for 2nd receiver
Variable input symbol rate 1 ~ 45MSPS
Oscilloscope / spectrum analyzer function for easy signal detection
Easy auto satellite program searching
Manual PID scan function
Picture-In-Graphics function
Multi-Picture(4,9,10,13 or 16 pictures) function
Multi language menu
Electronic Program Guide
8 favorite channel group selection / parental lock
Auto NTSC / PAL switching
Teletext supported by OSD and VBI
RS 232 downloading
Data transfer / receiver-to-receiver and / or PC-to-receiver
DiSEqC version 1.2/1.3 supported

1-2 Accessories

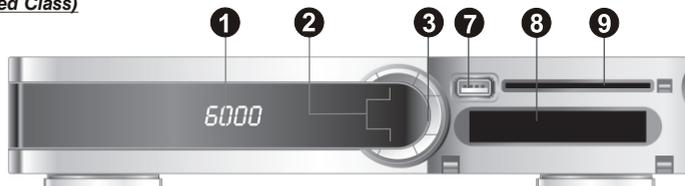
User's manual : 1
Remote control unit : 1
Batteries (AAA Type) : 2 pieces
Warranty Card : 1



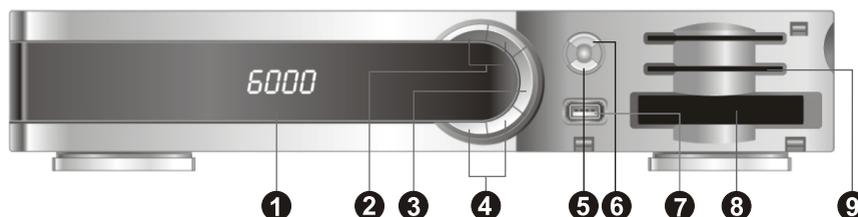
2. Controls & Features

2-1 Front Panel

(GI-S801 Xpeed Class / GI-S770 CR Xpeed Class / GI-S780 CRCI Xpeed Class / GI-S805 CI Xpeed Class)



(GI-S801 Xpeed / GI-S770 CR Xpeed / GI-S780 CRCI Xpeed / GI-S805 CI Xpeed)



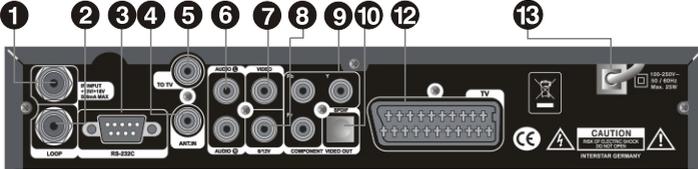
- ① **Display**
Shows channel number, error message, remote control commands and time in standby mode.
- ② **CH.** -, +
Channel up & down.
- ③ **Power** (⏻)
To put the receiver in and out of standby mode.
- ④ **VOL.** -, +
Volume up & down.
- ⑤ **OK**
To show TV/Radio channel list and to select a program, highlighted line or parameter value.
- ⑥ **Menu**
Used to display the main menu.
- ⑦ **USB Port**
Firmware downloading using USB memory stick
- ⑧ **2 Slots for CI module**(CI Model Only)
- ⑨ **To insert Smart Card**(Optional)

2. Controls & Features

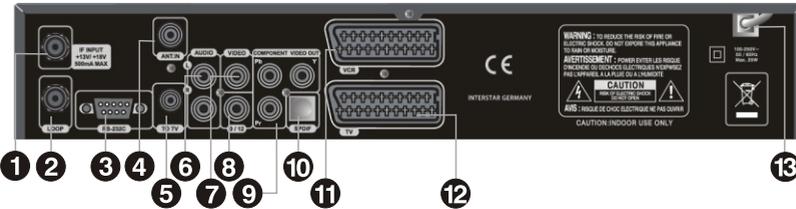


2-2 Rear Panel

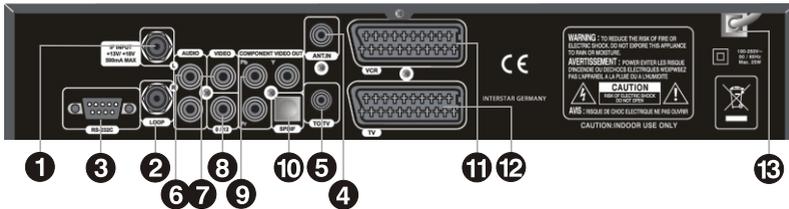
(GI-S801 Xpeed Class / GI-S770 CR Xpeed Class / GI-S780 CR CI Xpeed Class / GI-S805 CI Xpeed Class)



(GI-S801 Xpeed / GI-S770 CR Xpeed)



(GI-S780 CR CI Xpeed / GI-S805 CI Xpeed)

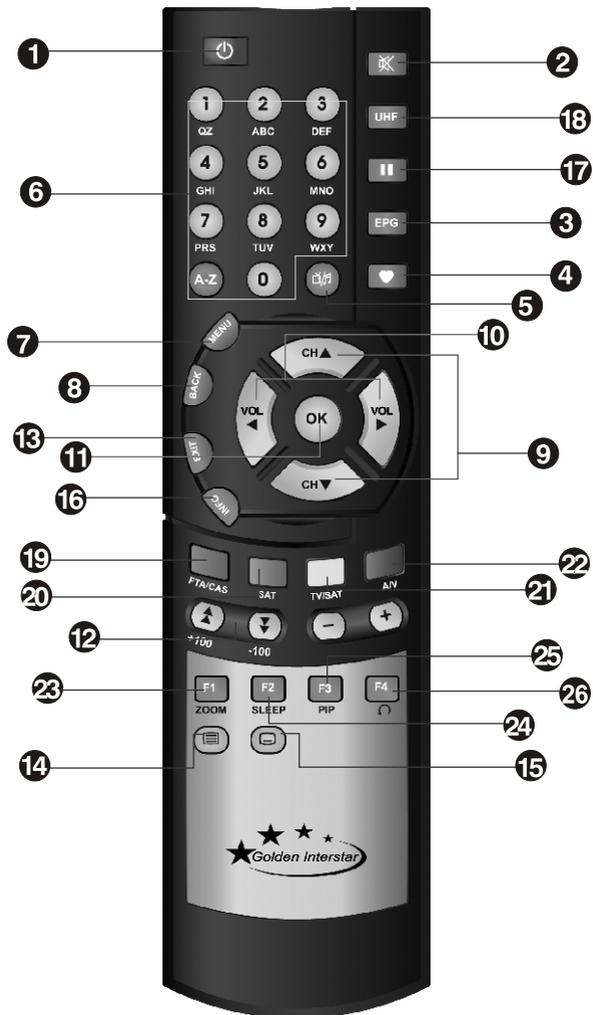


- ① **IF input** : Satellite dish input (F-connector)
- ② **Loop** : IF loop-through output to second receiver
- ③ **RS-232C serial port** : To read and load data information
- ④ **ANT.IN** : For a terrestrial (conventional) TV aerial
- ⑤ **To TV** : For connecting an RF cable to the aerial input of a TV
- ⑥ **Audio L/R RCA(phono) connectors** : Stereo outputs for connection to a HiFi system
- ⑦ **Video RCA(phono) connector** : Composite video output
- ⑧ **0/12V** : For connection to a 0/12V switch box
- ⑨ **COMPONENT** : For connection to LCD or PLASMA TV
- ⑩ **SPDIF** : Digital Audio Output
- ⑪ **VCR SCART** : For connection to a VCR
- ⑫ **TV SCART** : For connection to a TV
- ⑬ **Mains lead** : 100-250V~ 50/60Hz Max. 25W



2. Controls & Features

2-3 Remote Control Unit (RCU)



2. Controls & Features



2-3 Remote Control Unit (RCU)

- ① **⏻ (POWER)** Key : The power key turns the receiver on and off.
- ② **🔇 (MUTE)** Key: This key switches the sound on and off.
- ③ **EPG** Key : This key show program information about the selected channel.
- ④ **FAV** key : Change to last favorite channels or selects the favorite channels in the channel list
- ⑤ **📺/📻** key : Selects TV or Radio channels.
- ⑥ **Numeric** keys(0~9) : Numeric keys enable direct channel selection.
A~Z keys : Use these keys in the channel list ti fine channels alphabetically.
- ⑦ **MENU** key : Used to display the main menu.
- ⑧ **BACK** key : This key returns you to the previous mode or menu.
- ⑨ **CH.◀▶** : Used to move the highlight bar or change channel up/dn.
- ⑩ **VOL.▲▼** : Used to move the highlight bar or change volume up/dn.
- ⑪ **OK** key : The OK key is used to select a program, highlight line or parameter value.
It is also used to show the TV/RADIO channel list while watching TV or listening to the RADIO.
- ⑫ **▲(+100), ▼(-100)**(Page up/down key)s : Used to move the highlight bar one page at a time on menu. It is also used to change the channel up & down 100 channels.
- ⑬ **EXIT** key : Use this key return to the viewing mode from any menu function.
- ⑭ **☰(Teletext)** key : Used to display the Teletext data.
- ⑮ **☒(Subtitle)** key : Used to display the subtitle data.
- ⑯ **INFO** key : This key is used to display channel information.
- ⑰ **⏸ (Pause)** key : to pause video during viewing normal display but audio remains active.
- ⑱ **UHF** key : Display and select the UHF channel for channel for the RF modulator.
The factory default setting in channel 36
- ⑲ **FTA/CAS** key : Selects FTA/CAS channel.
- ⑳ **SAT** key : Select a satellite.
- ㉑ **TV/SAT** key : Select TV/SAT mode.
- ㉒ **A/V** key : Display and select the audio and video configuration.
- ㉓ **F1** key : Zoom function in the viewing mode.
- ㉔ **F2** key : Zoom function in the viewing mode.
- ㉕ **F3** key : PIP function in the viewing mode.
- ㉖ **F4** key : Instant-Replay function in the viewing mode.
RED, GREEN, YELLOW, BLUE keys : These color keys are used to select functions such as Delete, Move, Rename, Sort also used for slot machine game.

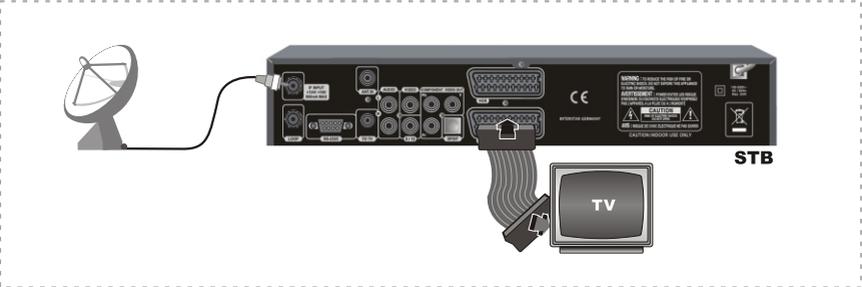


3. Connection Diagram of the Receiver

! "To receive high video quality, please use either component or scart output only"

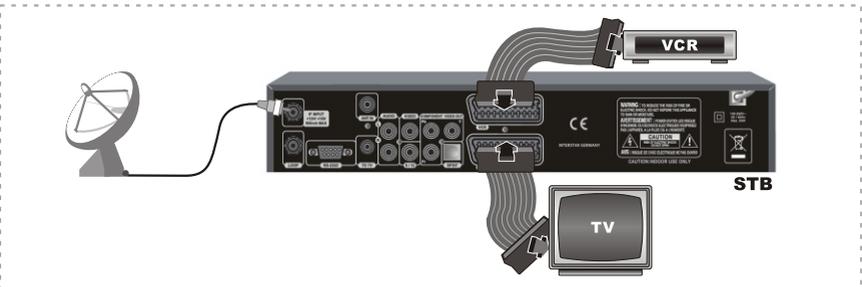
3-1 Connecting to a TV

- Connect the SCART lead between the main SCART socket on the TV and the TV SCART socket on the receiver.
- Connect an RF lead from the To TV output on the receiver to the RF input socket on the TV.
- Connect the TV aerial to the ANT.IN input socket on the receiver.



3-2 Connecting to a TV and VCR

- Connect one SCART lead between the main SCART socket on the TV and the TV SCART socket on the receiver.
- Connect another SCART lead between the VCR and the VCR SCART socket on the receiver.
- Connect a RF lead from the RF output on the VCR to the TV aerial input on the TV.
- Connect the TV aerial to the RF input socket on the VCR.



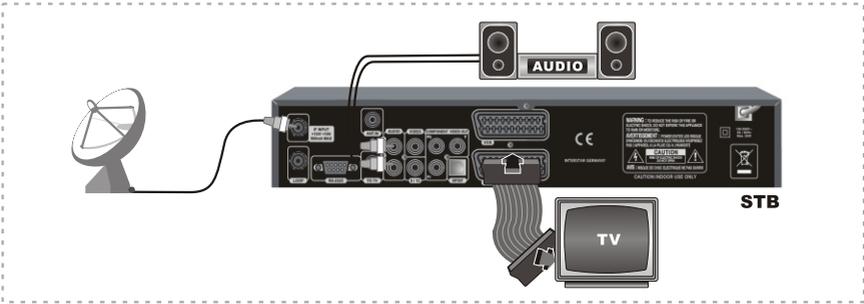
3. Connection Diagram of the Receiver



! "To receive high video quality, please use either component or scart output only"

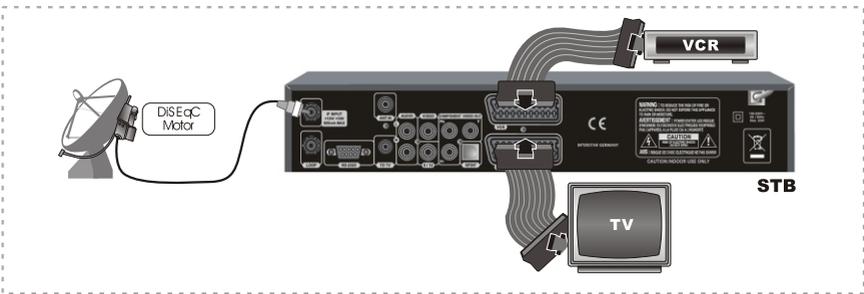
3-3 Connecting to a HiFi System

- Connect an RCA/Cinch stereo cable from the AUDIO L/R sockets on the receiver to the LINE, AUX, SPACE or EXTRA input sockets on your HiFi system.



3-4 Connecting to a TV with VCR and Motorized System (DiSEqC 1.2 / USALS)

- Connect one SCART lead between the main SCART socket on the TV and the TV SCART socket on the receiver.
 - Connect another SCART lead between the VCR and VCR SCART socket on the receiver.
 - Connect a coaxial cable to the IF input connector on the receiver and the other to the REC or receiver connector on the DiSEqC 1.2 / USALS motor.
- Note : Please refer to DiSEqC 1.2 / USALS connection.





4. Function Guide

4-1 Channel Information

Every time you change channels, program information will be displayed for a few seconds.



The information may include :

- 1) Current time
- 2) Channel name
- 3) Current channel number & name, satellite name & TP information
- 4) Symbol for CAS, Teletext, Alternate A/V, EPG, Parental lock information
- 5) Signal meta
- 6) Program information : Whenever you press the Info button, the program information window will appear.

You can change the channel list with the ▲, ▼ keys on your RCU or Front panel.

4-2 Changing Channels

You may change the channel by simply entering the channel number using your RCU 0~9 keys. Alternately, you may use the ▲, ▼ keys on the RCU and/or the front panel of the receiver.

4-3 Volume Control



To control the volume, use the ◀, ▶ keys on the RCU.

The volume indicator will show for a few seconds before automatically disappearing.

4. Function Guide



4-4 Channel List for TV/Radio/Favorite

When you press the OK key, you can directly see the channel list



You can select the channel you would like to watch by moving the highlighted bar to the channel of your choice using ▲, ▼ and then pressing the OK key.

You can select the TV or Radio channel list by using the **TV/R** key.

Use the FAV(grey) key for selecting the favorite channel list.

(See the page 20 to set favorite channel)

Whenever you press the FAV button, the channel mode will be changed as follows :

Normal → Favorite1 → Favorite2 → Favorite3 → ... → Favorite8 → Normal.

[Color Keys]

- 1) RED(FTA/CAS) : The mode will be changed when you press as follow Normal → FTA → CAS → Normal.
- 2) GREEN(Satellite List) : When you want to change the channels of the satellite you want, select the satellite and press OK button.



3) YELLOW(Sort) : By pressing the yellow key, you will be able to select the sort method, either Normal, Alphabetical, or Satellite.

Normal sort shows channels in the order in which they have been added to the channel list. Alphabetical sort shows channels in Alphabetical order. If you select satellite sort, only the channels on the selected satellite will be shown, in the order in which they were added. If you have selected satellite sort and need to select a channel not on the selected satellite,

you will need to change the sort method before you can select that channel. After changing the sort method, the channel numbers will likely change to reflect the new ordering. The sort method may also be changed from the Edit Channel screen or the EPG screen.



4. Function Guide



4) BLUE(Multi Pictures) : If you press the Blue key, you will be able to choose between a 4, 9, 10, 13 or 16 pictures display. After making your selection, the screen will be divided and the current channel will be displayed in the first box in the upper-left corner, followed by the next channels in the successive boxes until the screen is full. You may then change and view the channel by using the up, down, left, right keys to highlight a box with the red box.

When you are finished with multi-picture mode, press OK again, or the EXIT key to return to the full screen viewing mode or BACK to return to the channel list.

4-5 Language



You can set up a new Menu language you want to see at the User Preference in MAIN MENU. Select the desired menu language simply by using the ◀, ▶ keys.

[Key usage]

- 1) OK key : Confirm the language you selected and return to the MAIN MENU.
- 2) BACK key : Cancel your selected language and return to the MAIN MENU.
- 3) EXIT key : Return to the channel viewing mode.

4) ◀, ▶ keys : Change the language (Language will be changed to ENGLISH / ARABIC / PERSIAN / TURKISH / GERMAN / FRENCH / POLISH / RUSSIAN / CZECH / GREEK / DUTCH / PORTUGUESE / SPANISH / HUNGARIAN / ITALIAN / INDONESIA / SLOVAK / SWEDISH in order)

4-6 Zoom



When in TV mode, F1 key will freeze the screen and goes to zoom function. OK key enables increase and decrease in size.

▲, ▼, ◀, ▶ : MOVE

▲ : Enlarge

▼ : Reduce

OK : Returns

4. Function Guide



4-7 Teletext



The display of Teletext is based on transmitted data using the EBU teletext specification and DVB Bitmap. It is available only when the current channel carries teletext service data. VBI insertion mode and OSD(On Screen Display) mode are supported.

In the VBI insertion mode, which is always on, can only be viewed on a TV which supports teletext using your TV's RCU.

In the OSD mode, you can view teletext even though your TV does not support teletext. To watch teletext in OSD mode, press the  button on the RCU.

0 ~ 9 : Press page number.

▲ , ▼ : Page up and down.

◀ , ▶ : Page left and right list.

▲ , ▼ : Page number increase and decrease by 100.

4-8 Subtitles



If the current channel provides subtitles, you can see the  or  symbol indication in the channel information box. When you want view subtitles, press the  button on the RCU and the language selection menu will appear. Press the OK button to view subtitles after selecting one of languages in the language selection menu.



5. Main menu

MAIN MENU

5-1 Installation

5-1-1 Installation (Antenna Configuration)



This mode will display the antenna adjustment menu on the screen and can adjust all required installation information for each selected Satellite. By selecting the Red, Green or Yellow keys in satellite name list box, you can delete the satellite, add a new satellite, rename a satellite. The blue key will be explained later(5-1-2) below. When you select a satellite name in the list box, the required installation information is displayed. Press the Right(▶)key and adjust the items according to your system such as LNB, DiSEqC input and Network search, 22KHz. When finished, press the OK key again.

5-1-2 Multi Search All



By pressing the BLUE key, this mode will search all channel of the satellite staying in the bar. You can select satellites in multi by pressing OK (You can see the name of satellite changing to Yellow color) so that you can search all channels of the satellite you have selected.

5. Main menu



5-1-3 TP Setup



The information to enter in this menu is available in magazines covering satellite TV reception, or from your service provider.

You can use this menu if you are looking for some special channels (i.e. Non DVB standard channels) which can only be found when you have entered the necessary settings here by typing specific frequency you want. To add or delete a specific frequency, you can use Green and Red keys.

The required installation information is displayed. Press the Right(▶)key and adjust the items according to your system such as Frequency, Symbol Rate input and Polarity, Code Rate.
When finished, press the OK key again.

- Transponder Frequency : Specify the frequency in MHz
- Symbol Rate : Enter with the numeric keys
- Polarization : Select Horizontal or Vertical
- Code Rate : Select the FEC (Forward Error Correction) value

5-1-4 PID Edit (Yellow button in TP Setup)



Use this in case of a specific Transponder which has non-DVB standard channels and which only can be found when you have entered the necessary settings. You can also add or delete channels from a specific TP.

- PCR PID : Enter the PID (Packet Identifier) for the PCR (Program clock Reference).
- Video PID : Enter PID for the video signal.
- Audio PID : Enter PID for the audio signal.



5. Main menu

5-1-5 Search All (Blue key in TP Setup)/TP Search



By pressing the BLUE key in the TP Setup, this mode will search all channel of the satellite without regarding the frequency. By pressing Right(▶) key and adjusting the frequency or leave as it is, you can search the specific channel regarding the frequency you choose.

5-1-6 Antenna Positioning



Antenna Positioning (DiSEqC1.2)

This mode will allow you to set the antenna position for each satellite.

In order to use antenna positioning you must use a motor controlled by DiSEqC1.2 commands.

To move the antenna, select the desired satellite, transponder, and step size. Then select Move Dish and press ◀,▶ to move the antenna West or East.

If you selected continuous for the step size,

the antenna will move continuously until you press another key. Once the antenna is positioned properly, select Command Mode and choose Save, then press OK to save the position. The position number will then be displayed next to the satellite name.

When you want to move the antenna to a saved satellite position, select the satellite, choose Go To for the Command Mode and press OK. To clear a saved satellite position select satellite, choose Reset for the Command Mode and press OK.

5. Main menu



Antenna Positioning (USALS)

This mode will allow you to use a DiSEqC1.3/2.3 motor controlled by a USALS (Universal Satellite Automatic Location System).

To move the antenna, press the OK key to select the Satellite Position, My Longitude and My Latitude.

Select "Go To 0" and press "OK" in Command Mode for "Position 0" which, for the polar positioner, is the imaginary the polar positioner, is the imaginary point on the geo-stationary orbit

of the satellite, which has the same longitude as the place of installation. Select "Go To Position" and press "OK" in Command Mode to send the "Reference" command for the polar positioner which is utilized during re-calibration of the polar motor function. If you wish to manually control the positioner, use the "Step Size" and "Move Dish" commands to move the antenna.

5-2 System Setting

5-2-1 Edit Channel



The factory set password is 0000.

From these menus you can create and edit channel lists. You can create a favorite channel list, delete, rename and arrange the order of the channels within the lists.

The TV list can contain hundreds of channels. By creating your own favorite list, you can make channel handling a bit more convenient or by factory default.



5. Main menu



Delete Channels / Delete All

In this mode you can delete individual channels or all channels from within your lists.

Please note : Channels deleted in this way will be permanently deleted. The only way to get them back is to perform a new channel search.

- 1) Select the channel you wish to delete using the ▲,▼ keys.
- 2) Select Delete Mode by pressing the Red Key.
- 3) Select Selected Channel or All Channels by using the ▲,▼ keys.
- 4) Confirm the deletion by pressing the OK keys, or else press the BACK or EXIT key if you wish to cancel the operation.



Move Channels

In this mode you can arrange the sequence of channels within your lists.

- 1) Select the channel you want to move using the ▲,▼ keys.
- 2) Press the GREEN key to select the Move mode. The right side of the highlighted channel will change to indicate Move mode has been selected.
- 3) Press ▲,▼ keys again to move the channel.
- 4) When the channel is in the desired position, press OK to confirm the move.

5. Main menu



Rename Channels

Within any of your favorite lists you can rename the channels. Mark the channel you want to rename and press the YELLOW key. The rename dialog box will then appear and let you modify the existing name.

- 1) Select the specific channel which you want to change the name of.
- 2) Press the YELLOW key on your RCU to display Rename mode.
- 3) Enter the characters (A...Z, 0...9) one-by-one using the ▲,▼,◀,▶ keys.
- 4) Press the OK key for typing.
- 5) Press the YELLOW(Skip) key to make a space between characters.
- 6) Press the RED key if you wish to delete a character.
- 7) Press the GREEN(save) key to save the name.

Sort

See the page 9 (4-4 Channel List for TV/Radio/Favorite)



Channel Lock / Favorite

Pressing INFO key will select Lock mode and release.

If you turn on the favorite attribute the channel will be added to your favorite list.

You can make favorite channel groups by press FAV.

Normal - Favorite1 - Favorite2 .. - Favorite8 - Normal



5. Main menu

5-2-2 Parental Control



Parental Control

In the Parental Control menu, you can set the censorship classification or change the PIN code. From the factory the default access PIN code is set to 0000.

You can set On/Off by pressing Left(◀) or Right(▶).

The following settings can be altered from this menu.

- 1) Menu Lock : Only available SYSTEM SETTING and INSTALLATION.
- 2) Channel Lock : If you turn the lock attribute on by pressing the ◀, ▶ keys, the channel will only be viewable after you enter a password. This feature is useful to prevent young viewers from watching inappropriate channels.
- 3) Rating Lock : This mode for Age Limits Control. If this mode is set up to OFF, you will skip the Age Limit Control.
- 4) Age Limit Control : Only available ON mode of Rating Lock. If you want everyone to have access to all available types of programs, select OFF. If you select ON you may block programs unsuitable for children. Select Age Limit between 4~18 years on the line that appears.



Change Password

From here you can change the access Password from the standard 0000.

DO NOT FORGET IT. Without it you do not have access to any of the functions where the code is required.

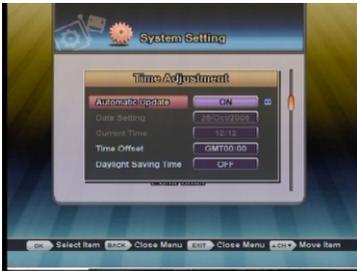
To change the new access Password, enter the new password number and press OK.

You will then need to confirm your new password by entering it once more and press OK.

5. Main menu



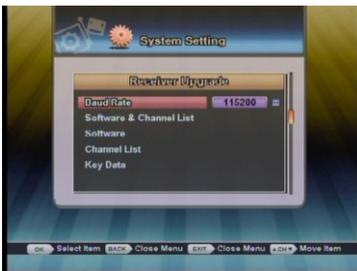
5-2-3 Time Adjustment



To set the current time, input the offset value by using the standardized information of your current service area. The time setting will be used as the standardized time for the TV Guide, Wake up / Sleep time. Current time is based on the TDT (Time Description Table) in the stream of the current program (Automatic Update should be ON). If the stream of current service doesn't contain the TDT, you can adjust current time after you set up Automatic Update to OFF.

To adjust current time, move a cursor to Current Time and then press OK button. Afterward you can adjust time by using ▲,▼ button. You can complete the time adjustment by press OK key.

5-2-4 Receiver Upgrade



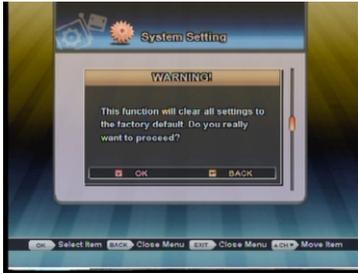
All program and/or data in the master receiver can be transferred to the next(slave) receiver using this function.

- 1) Connect the serial cable between the two receivers.
- 2) Enter the Data Transfer menu on the Master receiver.
- 3) Select the type of transfer you wish using the ▲,▼ keys. You can select to transfer both Software & channel list, Software only or Channel list only and press OK key.
- 4) Power on the Slave Receiver.
- 5) Once the data transfer is completed, a message will appear informing you that the transfer was successful. If an error message appears, you will need to start the transfer process over again.
- 6) If you are updating multiple receivers, transfer the serial cable to the next receiver and power it on. When you are finished, press EXIT to return to the cancel viewing mode.



5. Main menu

5-2-5 Default Setting



In the Default Setting mode, you will be asked to confirm your desire to clear all settings to the factory default or not. Default Channel List will replace the existing channel list with the factory default channel list. All satellite and transponder lists will be set to the factory default as will the user preference settings. When you are ready to confirm setting the system to the factory default, Press the OK key. If you press the EXIT key, the function will be cancelled and return to the System Installation Menu.

5-2-6 System Information



This displays general information about which hardware and software version your receiver is running on.

5-2-7 Event Timer



Event Type: Stop Time, Wake Up, Sleep
Mode: once, daily, weekly.
Press the Green key, and you can add more reservation list. You can change Event type by Left/Right key, and you can select the channel in Channel List by OK key. You can change Once, Daily and weekly in Mode. Press OK key in Mode or Duration after adjusting date, time and channel, and the reservation is done. In case that Mode is Sleep or Stop Time, confirmation window appears and informs before 1 minute to be reserved

All reservation lists need the reserved time after 1 minute from now on. Select the EPG list in Tip Program guide and press Red key, and then you can simply enter the date, time and channel into event timer.

5. Main menu



5-3 User Preference

From here you can access the language, TV Screen format, Video Format/Output, RF Audio Type, Remote controller Beep and Signal Meter Style.

- Display Language : English, Germany, French, Arabic, Persian, Polish, Russian, Turkish
- TV Screen Format : Select the type of television screen format you have
(4×3 Full Screen, 4box, 4er Box, 16pe of Television (Auto,PAL,NTSC)
- Video Output : RGB, CVBS
- RF Audio Type : M 4.5Mhz, B.G 5.5 Mhz, I 6.0 Mhz, D.K 6.5 Mhz
- Remote Controller Beep level : OFF, 1~10
- Remote Controller Beep Frequency : 1~40
- Signal Meter Style : Select display type of signal level for Channel information
(Spectrum analyzer, Oscilloscope)
- Signal Beep lever : OFF, 1~10
- Transparency : Off, 1~32 (Under Signal Meter Style)
- Channel Info. Display : OFF, 1~5 sec

Press the Left/Right(◀/▶)button to change the value, OK/BACK Button to go to previous menu and EXIT button to go to full screen.

5-4 Games

Our receiver has built in games for your enjoyment.

In order to play the games, please go to main menu and select Games and choose one to play.

5-5 Common Interface (CI Model Only)



By selecting Common Interface from the main Menu and pressing the OK key, you will be taken to the Common Interface Menu.

From here, select the smart card for which you wish to view information / change parameters and press the OK key. From this point, the menus you see will be determined by the particular smart card you have selected.

Refer to your smart card instructions for details on the use of the menus.



6. New Features

6-1 PIP(Picture In Picture)

If you press F3 key in TV mode, you can convert to PIP mode. PIP mode supports not only PIP mode but also changing mode of place / size of division in 2 sub channels. You can see the channel list of sub channel by pressing F2 key.



↓ Input F3 Key in TV Mode.



→ Press F1 key to convert to position move mode. You can adjust the position of Sub channel with ◀,▶,▲,▼ keys.



↓ You can change the sub channel size by mode key and using ◀,▶,▲,▼ keys will change the size of the sub.



→ If you want to convert to division in 2 modes, Press F1 key.



↓ You can view sub channel list by F2 Key and use ◀,▶,▲,▼ keys to change sub channels.



→ If you want to go to normal mode from PIP mode, Please press F3 again.

6-2 A/V Selection

- Press Blue key in the viewing mode, and you can adjust the setting of Audio/Video.
- Output Mode: select the audio output mode among stereo(LR), Mono(LL) and Mono(RR)
- Alternate Audio: select the audio channel in case that several audio channels input.
- Alternate Video: select the video channel in case that several video channels input.
- Spdif Output: adjust Spdif output (PCM, AC3).
- TV Screen Format: adjust the Screen format among 4X3 Full Screen, 4X3 Letter Box, 4X3 Pan & Scan, 16X9 Full Screen, 16X9 Letter Box and 16X9 Pan & Scan.
- Brightness: adjust the brightness of the screen in the step of -128 ~ 127
- Contrast: adjust the Contrast of the screen in the step of 0 ~ 63

6. New Features



6-3 Time Machine Function (Instant replay)

This function enables a viewer to watch previously missed live screen for about 15 to 30 seconds according to the size of data format. Please use button on the RCU F4 Key in order to activate this function. If you want to stop watching, please press F4 again

6-4 Firmware upgrade using USB flash drive



- (1) Copy the latest firmware upgrade file to a USB flash drive.
- (2) Connect the USB flash drive to the USB port in receiver, and a window will be appeared in the TV Monitor.
- (3) Select the firmware upgrade file and press OK key on your RCU, and then the selected data are transferred to the receiver and upgrade gets started. When the upgrade is completed, the receiver will be automatically rebooted. If you do not press any key on RCU for 5 seconds, the upgrade will automatically started with the presently selected firmware.
- (4) The upgradeable firmware is Program file and Channel data file

6-5 JPEG viewer

Insert the USB flash drive with JPG file into the USB port in STB and press OK key After then, Press F1 key, and you can see the JPG file list in USB flash drive. Select 1 JPG file you wants to play back among the JPG files and press OK key, and then you can see the selected JPG file. In addition, press UP and Down keys, and you can see the next JPG file. Furthermore, press Info key, and you can see the information of the file.



Select the JPG files you want to be included in the slide show with Blue key and Red key in JPG file list, and press OK key. After then, the Slide show gets started. In addition, press OK key again, and the Slide show gets stopped.

6. New Features

The time of Slide show can be adjusted in User Preference.

If you want to go back to Live mode from JPEG VIEW mode, Stop the Slide show and press EXIT key.



7. Troubleshooting

There may be various reasons for abnormal operation of the unit. Therefore, if the unit does not work properly, check the unit according to the procedures shown in the table below.

Problem	Possible causes	What to do
*The display on the front panel does not light up.	*Main cable is not connected.	*Check that the main cable is plugged into the power socket
*No sound or picture.	*Wrong connection of the video/audio output to the TV input terminal. *Wrong connection of satellite antenna cable. *Wrong direction of satellite antenna.	*Connect two terminals correctly with a SCART cable or RCA or RF cable. *Connect the antenna cable correctly. *Adjust the direction of antenna.
*Black-and-White screen or V-Hold problem	*No signal or weak signal. *Wrong setting of channel information in System Installation Menu. *Your TV mode is different from satellite broadcasting mode.	*Check the cable connections LNB and other equipment connected between the LNB and the receiver or adjust the antenna. *Type the setting value correctly. *Use TV of same mode. Use a NTSC/PAL converter connected to the receiver TV.
*The RCU is not working	*Battery exhausted. *Fluorescent light interfering with the remote controller. *RCU is incorrectly aimed	*Change the batteries. *Switch off the light. *Aim the RCU at the receiver.

8. Technical Specifications



Tuner & Channel

Input Connector : F-type, IEC 169-24, Female
Frequency Range : 950MHz to 2150MHz
Input Impedance : 75ohm or 75Ω . Unbalanced
Signal Level : -25 to -65dBm
LNB Power & Polarization : Vertical - +13V / Horizontal - +18V
Current : 500mA Max overload Protection
22KHz Tone : Frequency - 22KHz ± 4KHz
Amplitude : 0.6V±0.2V
DiSEqC Control : Version 1.0/1.2/1.3 compatible
Demodulation : QPSK
Input Symbol Rate : 1-45 Ms/s
FEC Decoder : Convolutional Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8
with constraint Length K=7

MPEG Transport Stream A/V Decoding

Transport Stream : MPEG-2 ISO/IEC 13818
Transport Stream : Specification
Profile Level : MPEG-2 MP@ML
Input Rate : 100 Mbit/s Max
Aspect Ratio : 4:3, 16:9
Video Resolution : 720 x 576 (PAL) / 720 x 480 (NTSC)
Audio Decoding : MPEG / MusiCam Layer I & II
Audio Mode : Single channel / Dual channel joint stereo / Stereo
Sampling : 32, 44.1 and 48KHz

Memory

Main Processor : NEC UPD61217 (32bit @ 284MIPS)
Flash Memory : 2 Mbyte
Program DRAM : 32 Mbyte

Common Interface (CI Model Only)

2 full independent module capability common interface standard compliant
DVB_CI (CENELEC EN-50221)
Up to 20Mbits/s on Command Interface
Up to 100Mbits/s on Transport Stream
MPEG II Transfer Stream compliant
3.3V or 5V I/O buffer for direct interface with FEC and DEMUX Ics



8. Technical Specifications

A/V & Data In / Out

TV SCART : Output (CVBS, RGB, Audio R/L)
VCR SCART : In / Output (CVBS, Audio R/L)
VIDEO OUT : 1 × RCA Cinch
AUDIO OUT : 2 RCA Cinch
SPDIF : Fiber Optic Digital Audio Output
RS232C : Transfer rate 115,200 bps / 9 pin D-sub Type
COMPONENT OUT(YPbPr) : 3 x RCA Cinch
USB

Power Supply

Input Voltage : 100-250V ~ 50 / 60Hz
Type : SMPS
Power consumption : Max. 25W
Standby Power : 8W
Protection : Separate internal fuse.
The input should have lightning Protection

Physical Specification

Size (WxDxH) : 340 x 240 x 60mm (GI-S801 Xpeed / GI-S770 CR Xpeed /
GI-S780 CRCL Xpeed / GI-S805 CI Xpeed)
260 x 215 x 44mm (GI-S801 Xpeed Class / GI-S770 CR Xpeed Class /
GI-S780 CRCL Xpeed Class / GI-S805 CI Xpeed Class)

Weight (Net) : Approximately 2 Kg,
Operating Temp : 0 °C to + 45 °C
Storage Temp : -10 °C to + 70 °C
Storage Humidity : 5% ~ 95% RH (Non-Condensing)

RF Modulator

Connector : 75Ω IEC 169-2, Male / Female
Frequency : 470MHz to 860MHz
Output Channel : Ch21 ~ 69 for the Demodulator
TV Standard : PAL G/I/K, NTSC M selectable by Menu Setting
Pre-Set Channel : Channel 38 (or TBD)