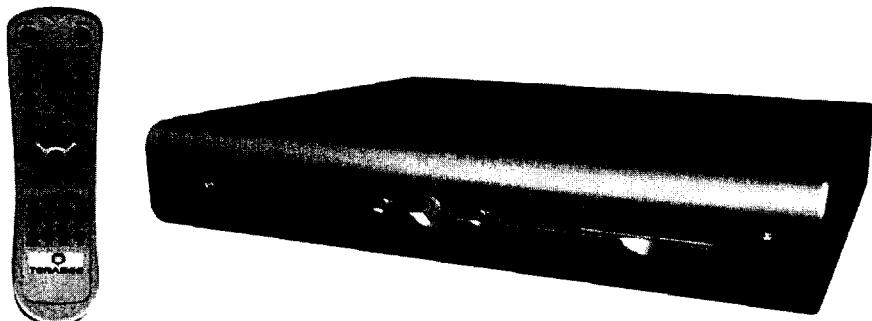


## **Digital IP Set-top Box(STB)**

**TeraBee**

### **User's Manual**



#### **A phone number of inquiry**

International : #82-2-525-9577

Local (free) : 080-514-8137

Please read this user manual carefully to be able to safely install, use and maintain the receiver at maximum performance. Keep this user manual next to your receiver for future reference.

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## **CHAPTER 1. THE START ON TeraBee.**

TeraBee, Digital IP Set-top Box, is the two-way SET-TOP BOX in the real sense that materializes home infotainment(information+entertainment) by accommodating INTERNET(DATA) and Cable TV(Image, Voice) simultaneously and not only goes over the barrier of the existing INTERNET SET-TOP Box. But also provides all the user with a familiar INTERNET conditions and induces the real time interchange of information by proving the unlimited INTERNET information together with Broadcast after Reprocessing so as to be suitable to TV resolution.

### **• Features Of The Product**

#### **On Demand Service**

Type contents service accommodating the newest MPEG-4 mode, It provides the various contents by audio with image quality and high tone quality of the DVD class.

#### **Settlement making the most of SMART – CARD**

Making the most of SMART-CARD that is being stores various contents ranging from a bank confirmation for home shopping to a adult

Confirmation and credit card confirmation needed for a shopping mall settlement can be easily used in the mode of PPV(Pay Per View) that everything is being settled during watching TV.

#### **Shopping By One-Click**

Inserting SMART CARD and clicking simply the remote control button during watching TV, the order is settled at one-time and you can get out of the risk that licks the credit information through telephone.

#### **Delivery Order Begin Placed By Remote Controller**

Deciding a shopping center and menu only by remote controller, you don't need further to call a shopping area and home delivery can be made at once.

### **Point System**

You don't need to check one by one on the points that are being accumulated whenever using. TeraBee can easily refer to the user's point and the point can be used just like a cash to the service providing by TeraBee.

### **Electronic Coupon**

Do not clip out one by one discount coupon that is being distributed by a newspaper or a handbill and carry with you.

The needed details of the coupon can be down loaded on smart card and you can use it easily in case of settlement.

### **Home Banking By TV**

By UI(user interface) that it is easy for everybody to use just like installation of atm device at home, you can conduct such bank business simply at home as tax payment, account transfer, etc.

### **Real Time Service Of Information On Living**

As there is news menu that you can refer to at any time, you don't need to wait till news hour.

You can check in the real time on the information of not only news but also weather, traffic, securities, etc through TV.

### **N.B. For Safety**

This page is to secure the users safety and prevent in advance the damage of property.

After reading the contents below carefully, please use correctly.

Risk is classified as two of "warning" and "caution".

## **WARNING**

- Please do not touch absolutely the power plug with wet hand.
- Please insert correctly so that the power plug may not be shaken.
- Please do not bend or pull the power plug unreasonably and please keep the power plug so as not to be pressed down by a heavy substance.
- Please do not put an alien substance into a draft hole and the back cooler part of terabee.
- In case of thunder and the strike of lightning, please do not touch by hand the main body and ir(remote control antenna) of terabee.
- Please keep terabee so as not to be drowned.
- Please do not dissolve or remodel terabee at your discretion.
- In case of disorder that the inside of terabee emits somoke or heavy smell of soot, please pull out the power plug immediately.
- In the case that terabee is damaged by shock, please do not use.
- Please do not install terabee at the place with much humidity, dust or soot.
- Operating Temperature : 0°C ~ 40°C,  
Storing Temperature : -25°C ~ 70°C
- Operating Humidity : Below 70°C (40°C, In case of non-congelation)

## **CAUTION**

- Please install terabee always at the flat place
- Please install terabee at the place being well ventilated
- Please replace immediately the wasted battery for remote control
- Please dispose of the wasted battery so as to be kept out of children's hand
- In case of using terabee, please do not press down two buttons at the same time or do not dissolve at your discretion
- Temperature and humidity of the environs where terabee is installed are desirable to be proper
- In case of installing terabee, please keep out of the place where a direct ray of light is com not in or heat is radiated
- Please be careful not to drop substance on terabee or give a shock.

- Please keep away terabee from the place where vibration is heavy or magnetism is strong
- Please do not move terabee during operation
- In case of cleaning the outside of terabee, please pull out the power plug and clea'n it
- When you don't use terabee for a long time, please pull out the power plug

## Chapter 2 Installation of Terabee

The chapter is for installation, connection and initial installation of TeraBee.

### ■ Check on components of TeraBee

Opening TeraBee packing box, the components as below are enclosed.

If you check carefully on the components and fine dout omitted or damaged units, you have to make inquiries at a service conter and receive additional unit of exchange.

1. TeraBee
2. Remote controller
3. Two pieces of 1.5V battery(AAA Type)
4. RCA image / Sound cable
5. Ir blaster(Anntena type, Attaching type)
6. Operating Manual
7. Warranty card (Note down on the back side of an operating manual)

Having installation conditions ready TeraBee shall be installed aat the place where t he following temperature and humidity must be maintained and the following sourc e of electric power must be supplied.

- Storing humidity : Blow 90°C(60°C, in case of non-congelation)
- Consuming power : 30 WATT
- Input Voltage : 120 V
- Proper Frequency : 60Hz

## ■ Look about TeraBee

We look about the front side and the back side of TeraBee

- The front side of TeraBee



- Power button

In case of operation by button for standby and transfer of operation, it indicates in red color.

- The part receiving infrared rays

This is the part receiving infrared rays signal of remote control.

- Standby/Operation LED

In case of standby situation, it is red color. Switching on, light put out and in case of receiving infrared rays signal or service start, it is flickering in red color.

- VOD LED

During listening to VOD, it indicates green color.

- Smart card LED

In case of inserting smart card, it indicates red color.

- The part inserting smart card

This is the part inserting smart card.

### ■ The back side of TeraBee

- Image output terminal(Yellow color)
- Sound output terminal(Red color, White color)
- Component output terminal(Red color, Green color)
- Tuner(Cable input)
- S-Video(Super VHS Output)
- USB(Universal serial port input and output)
- Internet In(Superhigh internet input)
- Internet Out(Internet joint output)
- Power(Power input part)

### ■ Remote controller

Please refer to "To use remote controller", for further details about remote control.

### ■ Connection and installation TeraBee

We inquire about how to connect TeraBee to other devices and install. Before installation power cord of all the devices shall be pulled out.

### ■ Connection of internet and broadcast cable

This is an example of composition chart composed of broadcast system by using TeraBee.

- ▶ TV image that came out through cable converter or broadcast via satellite is input into TeraBee through exterior connected just prior to the final input of broadcast signal into TV.
- ▶ Please connect the Direct LITP(LAN Cable) directly coupled on internet modem to the internet terminal in want to connect internet to such device as computer, you can connect the direct UTP cable to the device in the need of internet connection at a internet out terminal in the back side of TeraBee.

### • Check on installation

In this chapter, we inquire about how to check on whether TeraBee is operating normally or not after installation.

Before check on installation, we check on whether connection of broadcast cable and peripheral device is completed or not as the above mentioned.

If antenna and receiver are connected correctly, please put on power switch of TeraBee and proceed with the basic setting work of receiver in the following order.

1. If you put on power of receiver, on TV screen the logo of TeraBee appears for a short time and disappears and proceeding of Booting is displayed.

(When booting screen shot continues without further proceeding please check on INTERNET connection)

2. If the main screen shot of TeraBee comes up after a short time, please press down "SETTING" button (It is set up at the basic setting value that was optimized in case of an initial operation)

3. under the fluid IP condition please select to use DHCP from the menu of network setting under the fixed IP Condition, Please input the pertinent value from the designated menu of IP Address.

4. From the menu of PPPOE setting, the user of ADSL Condition must choose use and input the users ID and Password, and the user of other must choose non-use.

5. You don't need to change the server setting menu from the initial value. In the case that ip of server is changed, a service center will inform you of the changed matters.

6. Making use of the upper/lower and the right/left button of remote controller the video setting menu can be chosen.

7. From the users setting menu, the present user and so and set-top box can be set up.
8. Choosing the program updating menu TeraBee starts again automatically and updating will be done.
9. When you want to cancel each menu setting, please press the button to the back.
10. Pressing the OK button after setting all the menu, the main image will be come out.
11. Now connection and setting of TeraBee are completed.

#### ■ Channel adjustment

There are three methods to adjust channel.

1. Pressing the button for screen shot cancellation at the main screen shot, it will be converted into the whole TV screen shot. Pressing the channel button of remote controller, you can choose the desired channel and watch.
2. Making use of the figure button(0-9) of remote controller from the whole TV screen shot mode, you can input directly the channel number and watch.
3. Going into the EPG screen shot of the broadcast guide menu and making use of the direction button(◀▶) and confirmation button, You can choose the desired channel and watch.

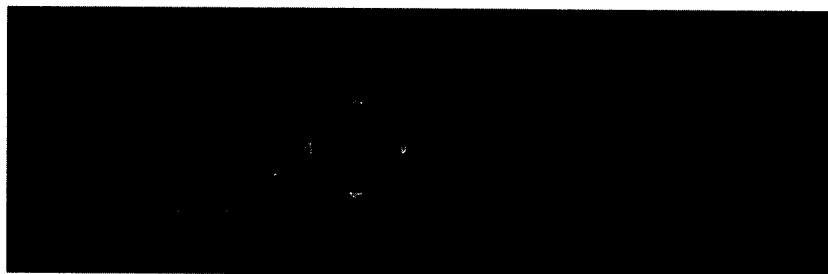
#### ▪ Modulation Of Volume Of Sound

You can use the volume button of remote controller in order to modulate volume of sound. Pressing the button, A sign appears on the screen.

### **CHAPTER 3 Utilization Of Remote Controller for TeraBee**

The integrated remote controller of TeraBee is manufactured so as to let TeraBee and TV be operated together. Using located at the upper portion of Remote Controller, TV can be operated.

The receiver for satellite broadcast or the cable-TV converter can be controlled simultaneously only by TeraBee control by using the IR Vlaster of TeraBee.



- Power button of TeraBee
  - It puts on or off power of TeraBee
- Power button of TV
  - It puts on or off power of TV
- The outside input button of TV
  - It is used when setting the outside input of TV
- Broadcast button
  - It moves to the main picture of TeraBee's broadcast service
- Movie button
  - It moves to the main picture of TeraBee's movie service
- Shopping button
  - It moves to the main picture of TeraBee's shopping service
- Inquiry Button
  - It moves to the main picture of TeraBee's inquiry service
- TV volume button
  - It modulates tv volume of sound

- Setting button
  - It sets up the conditions for terabee device cp lease refer to the set menu for the detailed contents
- Menu button
  - It Brings in the speedy menu during watching tv
- Screen shot cancellation button
  - It can cells menu screen shot and coverts to the whole tv screen shot
- button to the back
  - It moves to the screen shot just at the previous stage
- Transfer channel button
  - It moves to tv transfer channel
- Broadcast guide button
  - It moves to the man screen shot for terabee's EPG service
- Additional information button
  - It is the button when wanting additional information on tv program
- Confirmation button :
  - Function to inform of the end of input in case of information input
  - Function to inform of the end of movement in case of focus movement
- Button For The Right And Left Direction
  - Modulation of volume of sound
  - Focus movement
  - Page movement
  - Cursor movement in case of input
- Button For The Upper And Lower Direction
  - Channel change
  - Focus movement
  - Cursor movement in case of input
- Button For Figure
  - It is used when moving channel or inputting a figure and a letter.
- message Button
  - It moves to TeraBee SMS service.
- Letter Selection Button
  - It is used when selecting a consonant and a vowel in case of letter input.
- Letter Deletion Button
  - It is used when backspacing a letter in case of figure or letter input.

- Special Button For Korean/English Letter
  - It is used in the SMS service in case of converting Korean letter, English letter (Capital Letter/Small Letter), a sign a figure.
- Button for start, stop, temporary stop to the back and front.
  - It is the button for control in case of watching movie at the movie.
- Service sound elimination button.
  - It eliminates sound of Terabee

The use of integrated remote controller for the use of integrated remote controller of Terabee, the following setting process needed.

MANUFACTURER	CODE NUMBER
CINEMA PLUS	001
ANAM	053 054 048 005 051 052 049 050 046 047 029 010 018
DAEWOO	041 039 034 035 040 042 043 036 037 038 006 010 012 022 025 026 029 030 031 023 032 033
GE	007 018 047 067 091 092 111
HITACHI	022 058 074 075 076 077 078
JVC	102 115
LG	007 006 011 002 003 004 008 005 010 012 009 013
MITSUBISHI	007 022 065 070 079 080
NEC	007 022 023 025 065 094
PHILIPS	007 010 012 018 022 068 081 082 083 084
PIONEER	085 086 087
RCA	018 022 077 111
SAMSUNG	016 020 202 019 021 018 007 006 011 017 015 010 012 014
SANYO	023 095 096 100 103 106 107 114 121
SHARP	093 094 097 098 113
SONY	058 059 060 061 062
TOSHIBA	016 020 023 063 064 065 066
YAMAHA	022

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1. Switch on power of TV
2. In the state of pressing the TV power button, please input slowly three digits of TV manufacturer's number shown in the above table(if TV manufacturer is not shown in table, please refer to a service center)
3. If TV is off when you input three digits cord, it means correct setting

- Only remote controller's TV power, TV outside input, button for TV volume +,- are operated and all the other button are for Terabee operation.

#### **CHAPTER 4. UTILIZATION OF Terabee SERVICE**

##### **Terabee's main screen shot**

You can watch broadcast and information simultaneously and you can choose various services by using figure button and color button.

- You can also confirm various informations of the program currently on Air, At the same time of watching program.
- Initial screen shot of movie service by using figure button of remote controller, The user can choose the latest movie with high quality shot as he/she pleases and watch at the desires time.
- Initial screen shot of shopping service

You can purchase conveniently goods on air by pressing once the button of Remote Controller, while watching TV broadcasting home shopping. You can also purchase various hit commodities selling by the existing INTERNET shopping mall.

## CHAPTER 5. specification OF Terabee

Dimension : 320mm\*250mm\*50mm

Weight : 1.5Kg

Power : AC 120V

Support format : Mpeg-1, Mpeg-2, Mpeg-4

Video input : 1 RCA

Video output : 1 Component, 1 RCA, 1 S-VHS

IP Setting : DHCP Client

USB : 2 USB port

Network : 1port NAT

### \* CAUTION

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

### WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### INFORMATION TO USER:

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

1. Reorient / Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help