



Megasat

YT6688



Digital Satellite Receiver

User Manual

(English)

CONNECTS

INTRODUCTION	3
SAFETY NOTICE	3
CLEANING YOUR RECEIVER	3
MAIN FEATURES	4
1 QUICK START	5
2 OVERVIEW	6
REMOTE CONTROL FUNCTIONS	6
FRONT PANEL	7
REAR PANEL	8
SIMPLE DIGITAL CONNECTIONS	9
ANALOGUE DIGITAL CONNECTIONS	9
3 OPERATING	10
Start Up	10
Main Menu	10
Installation	11
Parental Control	17
Channel Edit	18
User Setup	19
Factory Setting	22
System Information	22
Channel List	22
Program Guide	23
Audio Change	23
Recall the Favorite Channel	23
Download Software via RS-232 Serial Cable	23
4 SPECIFICATIONS	25
5 TROUBLE SHOOTING	27

INTRODUCTION

Congratulations on purchasing a new Megasat digital satellite receiver. This product is designed for using Digital Satellite Broadcasting and allows you to enjoy a lot of broadcasting whenever you want to watch it anytime. By simply pressing the button of the remote control unit, the vivid picture and life-like sound of digital broadcasting that your TV portrays through this product, allows you to watch whatever channel you wish of the digital broadcasting.

Throughout this manual you will notice that the operation is easy to use.

This manual will help you get the most from this product and guide you through installation, channel selection and many other functions.

In case you experience any difficulties to use this product, please consult the relevant section of this manual.

From now on, enjoy digital broadcasting with digital satellite receiver!!!

SAFETY NOTICE

DANGER! HIGH VOLTAGE! RISK OF ELECTRIC SHOCK!

- Do not open the top cover. Lethal high voltage is present inside the receiver.
- Always unplug the receiver from the power outlet before connecting or disconnecting any component.
- Never expose the receiver to water, moisture, extreme cold, or direct sunlight.
- Slots on the top cover are provided for appropriate ventilation of the unit. Do not obstruct these vents.
- Do not insert or drop small objects into the receiver.
- Install the receiver in a well-ventilated location.
- Never cover the receiver or operate it near any heat source.
- It is advisable to unplug the receiver from the power outlet, TV, and the satellite dish when a thunderstorm is expected.
- Please refer all servicing to qualified service agents.

CLEANING YOUR RECEIVER

- Always unplug the receiver from the power outlet before cleaning the unit.
- Do not use solvents of any kind to clean the unit. Only use a soft-dry cloth.

Main Features

- 1 LNB input (F-Type), IF signal loop through
- Up to 3000 channels TV or RADIO programmable
- SCPC & MCPC receivable from C/Ku band satellites
- Fully automatic Scan & Store of TV & Radio channels for up to 20 selected satellites using DiSEqC 1.2 Motor
- On screen language support for up to 7 languages
- Channel search option by TP, Network, FTA, Scrambled or ALL
- New GUI (Graphic User Interface) concept
- EPG access for on-screen information
- Built in Teletext function
- Subtitle function
- Parental control facility by channel and menu locks
- Multiple controllable LNB switching e.g. 0/12V, 14/18 volts, skew (mechanical polarizer), 22KHz and DiSEqC 1.2
- DiSEqC 1.3 with USALS function
- Displays on-screen message for antenna movement using DiSEqC positioner
- Supports Universal, Single, Single S and Wide Band LNB applications
- 22 different favorite groups (11 TV & 11 Radio) with ability to rename each group
- Last channel recall facility
- Real time display on Info banner and on front panel display in standby mode
- Full editing functions (Add, Delete, Name, Move and Sort) channel, TP and satellite
- Receiver-to-receiver full user settings and channel data copying facility
- 1 year, 10 event VCR timer facility
- Digital audio output (S/P DIF) on RCA Multiple audio selection (L/R, Stereo & Mono)
- Picture-in-menu
- Programmable sleep timer up to 2 hours
- Supports multiple language broadcasts
- 100 → 240V AC 50/60 Hz SMPS
- RS → 232 port for PC connections and software upgrade
- Digital audio output (S/P DIF) on RCA
- PLL RF modulator (CH 21---CH 69, PAL G, I, K, PAL M, NTSC M)

1 QUICK START

Receiver Quick Start

- 1) Select the language you wish to use by highlighting it and pressing OK.
- 2) Press VOL ► to go to "Installation".
- 3) Click "OK" on the Antenna Setup option.
- 4) If Satellite name is in the satellite list,
 - (a) Press CH ▲ ▼ to select the satellite you are tuning into by highlighting it and pressing OK.
 - ☆ If you are tuning to a C/Ku-band satellite, ensure that the TP file is set to a C/Ku-band transponder, i.e., greater than 10,000.
 - ☆ If you are using other equipment, i.e., DiSEqC switch or positioner, enter the appropriate setting.
 - (b) Now adjust your dish alignment if you do not see the "Quality" bar appear. Once you have the highest signal strength on the "Quality" bar, scroll down to Satellite Scan and press OK. Press OK again when asked to save.
- 5) If Satellite name is not in the satellite list,
 - (a) Press EXIT key, then press CH ▼ to go to □Blind Scan□
 - (b) Scroll down to Scan and press OK.
- 6) The channel search will begin.

Congratulations, you just downloaded the channels to your receiver.

OVERVIEW 2

REMOTE CONTROL FUNCTIONS

We recommend that you familiarize yourself with the remote control handset prior to installing the receiver.

Key	Function
POWER 	Turns this receiver on/off. In the standby mode, it is automatically changed to TV mode that enables to watch terrestrial TV broadcasting.
	Sounds Off/On
PAUSE	Holds the picture or release the picture
SAT/TV	Selects SAT/TV mode.
TV/RAD	Toggles between the TV service and radio service
0-9	Changes channel directly Controls the numerical operation Input the alphabet in the name edit screen.
	Execute page down function in the menu.
	Execute page up function in the menu.
CH ▲	Channel up/down.
CH ▼	Moves the cursor upward/downward in the menu screen.
MENU	Enters main menu screen. Or exits menu screen
EXIT	Moves to upper menu
VOL ▲	Volume up/down.
VOL ▼	Changes the value of a selected item
OK	Shows channel list. Confirms selection
	Returns to previous program. Same function the key LAST
FAV	Enters favorite program or Exit from favorite program
	Selects audio mode (stereo, left only and right only). Selects language in case of Multilingual program
	Shows channel information, such as channel number/channel name, Frequency, Polarity, Symbol Rate, Video PID, Audio PID and PCR PID
SIG	Shows signal quality
SAT	Classifies satellite by satellite.
EPG	Shows program information.



Operating Principle

Select an item by using up and down key and change the value of the highlighted (selected) item by using keys shown on the screen. Press OK key to enter the sub-menu if there is no instruction marked on the screen.

□ The item is automatically stored and moved the upper menu by pressing the EXIT key.

□ You can return to normal mode at any time by pressing the menu key from the menu mode.

FRONT PANEL



1. POWER

Switches stand by mode and Normal viewing mode.

2. CH▲, CH▼

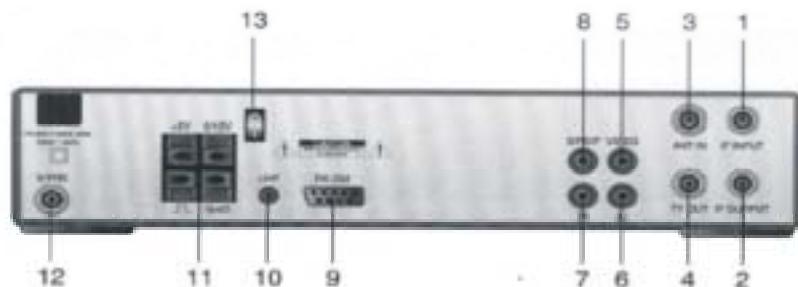
Changes Channel Up/Down

3. CHANNEL DISPLAY (4 digit/7 Segment)

After pressing the power button, □On□ is showed on screen.

After the receiver searches program, the program number is displayed as □0001-3000□

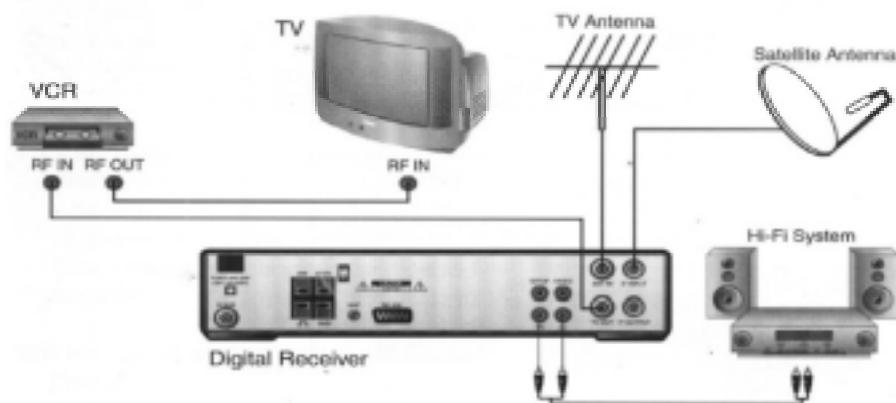
REAR PANEL



NO	NAME	FUNCTION
1	IF INPUT	IF INPUT from LNB to receiver
2	IF OUTPUT	IF Loop-through output to 2nd receiver
3	ANT IN	Input from terrestrial TV antenna
4	TV OUT	Output to TV
5	VIDEO	Composite video output
6	L	Left audio output
7	R	Right audio output
8	S/PDIF	For Digital Audio out
9	RS232	Serial port used for software downloading
10	UHF	Option for UHF Remote control kit
11	+5 GND, 0/12V	Used for mechanical polarizer Used for switching external signal (LNB)
12	S-VHS	Super Video output to TV or VCR
13	AC SWITCH	AC Power ON/OFF

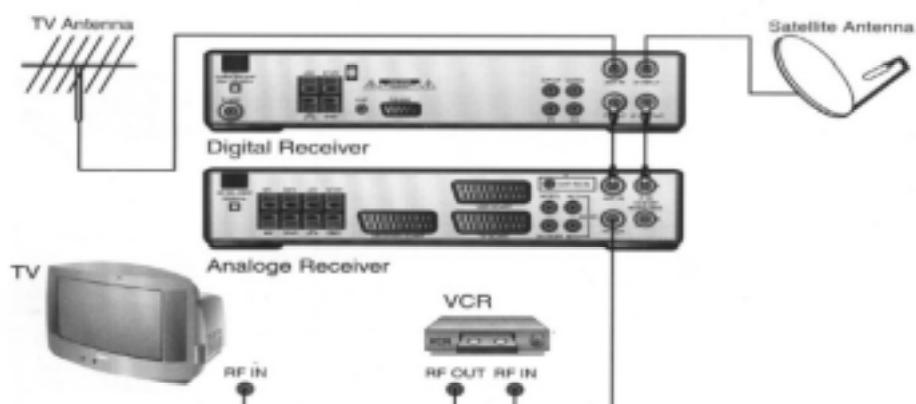
SIMPLE DIGITAL CONNECTION

When connecting receiver to TV and VCR with RF cable(Single Antenna)



ANALOG/DIGITAL CONNECTION

When connecting receiver to analog receiver and VCR with RF Cable



OPERATION 3

Start Up

If you are watching TV through the RF-cable, you need to adjust the Channelnumber. The type of TV and Channel numbers are set to PAL-G and Channel 38 at the factory. For USA, Ch.3 is factory preset.

Please follow the brief procedure below and watch the satellite programs.

- (1) Select the language
- (2) Select the antenna setup in main menu screen
- (3) Adjust LNB configuration per each satellite
- (4) Execute scanning to find program
- (5) Exit from installation after all programs are searched.

Language

When the receiver is turned on for the first time the language satellite menu is appeared as in the Fig 1-1

Select the desired language and press OK to confirm it.

This receiver supports 7 languages.

English,
German,
French,
Portugal,
Spanish,
Turkish,
Arabic,

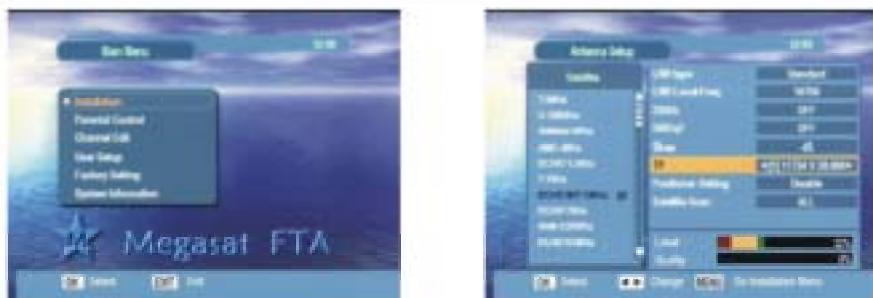


[Fig1-1]

Main Menu

Many of the functions of the receiver are available from the Main Menu. There are 4sections in this Main Menu, which are [Installation] [Panctal control] [Channel Edit] [User Setup] [Factory Setting] and [System Information]. The sub-menu will appear as you scroll between the 6 sections of the Main Menu.

Installation



Press the OK key. Antenna setup is appeared on screen as upper second figure.

Antenna Setup

By default your receiver is preset to Universal LNB for all antenna numbers (1-50). If you are using one antenna and one Universal LNB, then you do not need to change any settings. However you can re-program these to your requirements when using two or more LNBs and antennas. In this section you could know how to operate LNB set-up.

1. Satellite

When you adjust the LNB set-up, you select the satellite using **◀ & ▶** key.

After selecting the satellite, press **OK**.

Adjust LNB type, LNB Lo-Freq, 22KHz, DiSEqC, LNB power, 0/12V, TP, Positioner Setting.

You can cancel the satellite you chose using **◀ & ▶** key

2. LNB type

Select LNB type using **◀ & ▶** keys

There are 5 LNB alternatives.

Universal 1 (9750MHz & 10600MHz)

Universal 2 (9750MHz & 10750MHz)

Single-SL (5150MHz & 5750MHz)

Single-SH (5150MHz & 5750MHz)

Standard for USA

22KHz control is automatically set for each LNB alternative.

If Universal 1 or 2 is selected, 22KHz control should be **Off** state.

3. LNB Lo-Freq

If the required LNB frequency is not available, select **Standard** and then enter the frequency manually using the numeric keys.

For USA: C-Band L/O:5150MHz

Ku-Band L/O:10750 MHz

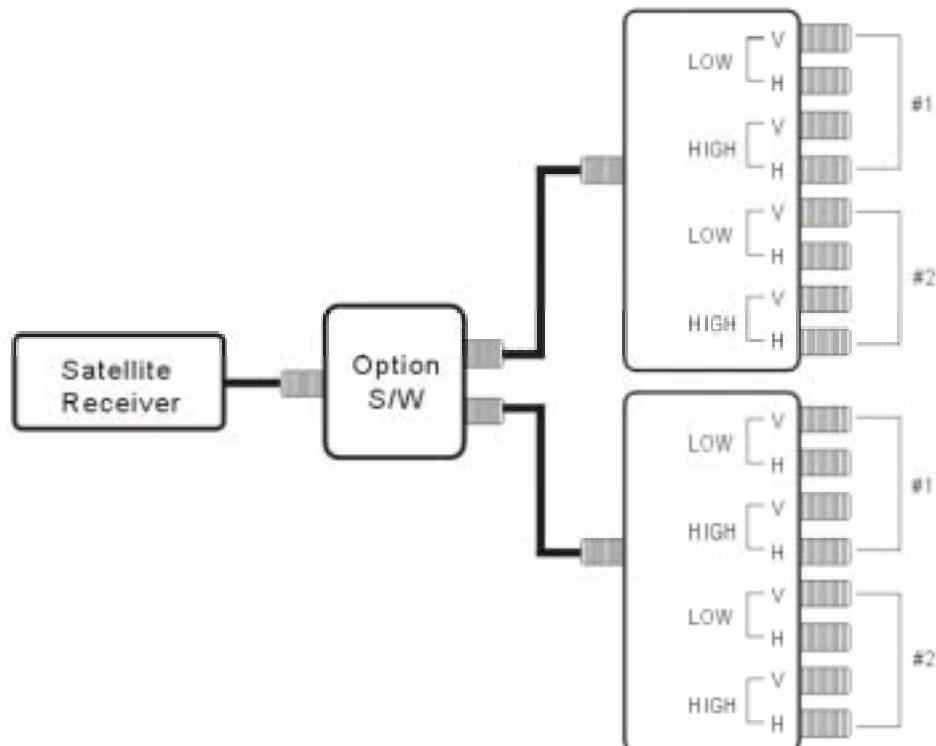
4.22KHz

In case you are using a Dual LNB or two antennas connected to a 22KHz tone switch box, make 22KHz tone switch **DN** or **DFF** to select a LNB or an antenna.

5. DiSEqC

• Full DiSEqC

If DiSEqC switching box is used in this Receiver, Select the port number to get the IF signal from the LNB, which is connected, to DiSEqC switching box.



⑩ Option DiSEqC box

If the option switch is only used as shown in below figure. There are two kinds of different ways to scan satellite depending on LNB type.

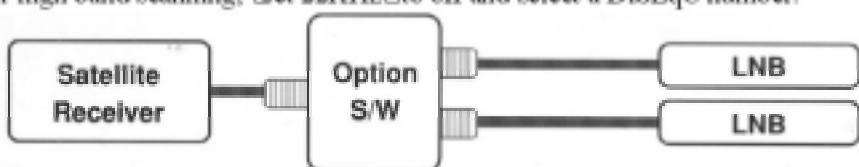
(1) For universal LNB

Select a DiSEqC number to which the RF signal is fed the LNB.

(2) For standard LNB

For low band scanning, Set 22KHz to off and select a DiSEqC number.

For high band scanning, Set 22KHz to off and select a DiSEqC number.



6. Skew

In case that LNB with mechanical polarizer is used in the system.

Adjust skew value by using **◀▶** key and check signal status bar at the same time. Keep on adjusting at the maximum signal status.

7. 0/12V

If you want 12 volts output to control LNBs with a relay type switch, press VOL up / down to turn on 12 volts. Please note that after making this setting, the 12 volts will turn on when channel search is activated.

8. TP

Select a specific transponder by using the VOL**◀▶** keys.

9. Setting your DiSEqC antenna positioner

If you are using a DiSEqC 1.2 antenna positioner then you can search and download up to 20 satellites automatically using the DiSEqC 1.3 menu. Further satellites can still be programmed individually. Follow steps below to do so.

1) DiSEqC 1.2

(1) Current position

Select the position number by using **◀▶** keys (#0-#26:default define, #27-#49: user define)

(2) Movement

Press VOL**◀▶** to move antenna furthest possible east or west limit, then enter limits for each position.

(3) Nudge East/West

Select Nudge East/West by using **◀▶** keys and press OK to save current position

(4) Recalculation

If it is used to shift the position for all satellites

Select Recalculation by using OK keys and is made above movement function

(5) East Limit Set

After furthest east, press OK and it will store the limit here.

(6) West Limit Set

After furthest west, press OK and it will store the limit here.

(7) Limit Disable

If you need to clear the limits, press OK and the limits will indicate 'None'.

(8) Go to reference

Select got to reference by using OK key

2) USALS (DiSEqC 1.3)

(1) Satellite Position

It points out the position of saved satellite.

You can change the position of the satellite by numeric keys

(2) My Longitude

Enter the numeric value using 0-9 buttons and then use PAGE up / down buttons to enter E (East) or W (West) location.

(3) My Latitude

Enter the numeric value using 0-9 buttons and then use PAGE up / down buttons to enter N (North) or S (South) location

(4) Reference Position

This is same as DiSEqC 1.2 Reference.

(5) Move

The satellite position of (1) and the one calculated by value of (2) & (3) will be shown. Press OK key and it will move.

(6) Store

Press OK to store the above settings.

10. Satellite Scan

After all LNB setting is finished, select and confirm Satellite scan, then channel searching is executed.

If you press SIG key on RCU, signal strength menu will be displayed on the screen.

Satellite scan

Scan all the transponder of selected satellites.

(1) Press OK key and Select wanted satellite by using ▲ & ▼ key

(If you want to scan several satellites once, you can control by ▲ ▼ keys)



Then press OK key to execute scanning.

(2) You can select satellites whatever you chose though. It is possible to search

only for 4 satellites among satellites you chose.

(3) Transponder will be consecutively scanned all selected satellite

TP scan

Selected TP is scanned in this menu

(1) Select TP scan in the installation menu

(2) Select a satellite

(3) Select TP to scan by using the **▲▼** key (using **◀▶** keys you can multi scan), then press OK to search

Network Scan

Procedure for setting up is same as TP scan.

Advantage: when TP information is updated, updated information should be scanned

Advanced Scan

Advanced Scan is used to scan the new TP of which the parameters have been entered manually. After setting the search parameters like down frequency, symbol rate and polarity by using the numeric keys and VOL **◀▶** keys, press OK.

Setting Video PID/Audio PID/PCR PID

You can set the PID to search program.

After setting the PID values, press OK key.

Blind Scan

1. To add a new satellite

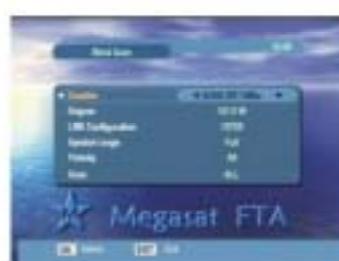
Select the satellite name with **◀▶** key
If you want to add a new satellite, press the OK key.

2. LNB Configuration

Please refer to 4.1 Antenna Setup.

3. Symbol range

Select Full, High or Low
High:> 7.5M



Full: High and Low

Low:<7.5M