

TOPFIELD

TBF-200HD

User Manual

*High Definition
Digital Terrestrial Receiver
USB PVR-Ready*

Default PIN: 2010



DVB
Digital Video
Broadcasting



The lightning flash with arrowhead symbol, in an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.



The exclamation point, in an equilateral triangle, is intended to alert the user to the presence of important operation and maintenance instructions in the literature accompanying the product.

Precautions

- Read, keep and follow these instructions.
- Heed all warnings.
- Clean with a dry cloth only.
- Do not block any of the ventilation openings.
- Do not install near any heat sources or in direct sunlight as this will impair cooling.
- Do not operate this product near water. Do not place any of the objects filled with liquids, such as vases on this unit.
- Do not try to change the plug or defeat its safety purpose. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- This product is designed for indoor use only.
- Place the digital receiver on a firm and level surface.
- Do not lay any objects such as magazines on this unit.
- Do not overload power outlets. Doing so may result in a risk of fire or electrical shock.
- Never open this unit’s casing under any circumstances, or the warranty will be void.
- Unplug this unit during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the unit, the unit became wet from rain or moisture, does not operate normally, or has been dropped.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

About this user guide

Thank you for purchasing our digital receiver. Please read this user guide carefully before you use the digital receiver and keep it handy for future reference.

This User Guide covers the model TBF-200HD.

- Illustrations pictured in this manual may not be exactly the same as the actual product.
- The screenshots used in this manual may not be exactly the same as those you see on the actual on-screen displays.
- Designs and specifications of the digital receiver and other accessories are subject to change without any notice in order to introduce new features or improve the functionality of the product.

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Chapter 1

Introduction

The TBF-200HD digital receiver is fully compliant with the international Digital Video Broadcasting (DVB) standard, and thus is able to receive digital broadcasts of that standard. For its operation you need an antenna, which must be installed appropriately.

For the latest news and information, join the Topfield forum at <http://www.topfield.com.au>.

NOTE

In general we equate a channel with a frequency. However, unlike analogue broadcasts, digital broadcasts are not all assigned to their own frequencies; instead, multiple television broadcasts are transmitted through a single frequency. The frequency in digital broadcasting is usually called transponder or multiplex. To reduce confusion in this manual, the word **service** is preferably used than **channel** as a term to indicate one television or radio broadcast.

1.1 Features

This digital receiver has the following features:

- Can store up to 2,000 television and radio services.
- You can edit the services list.
- Can create lists of your favourite services.
- Can view information about the current television or radio programme.
- Has an electronic programme guide that provides an overview of scheduled programmes.
- Time-shift is a special technical feature available on this digital receiver. You can pause a programme you are watching and resume it again at a later time. Then you can quickly go to any part of the current programme by fast forward or rewind search.
- If you have an external hard drive connected to the digital receiver via the USB port, you can record television programmes into it.

1.2 Controlling the digital receiver

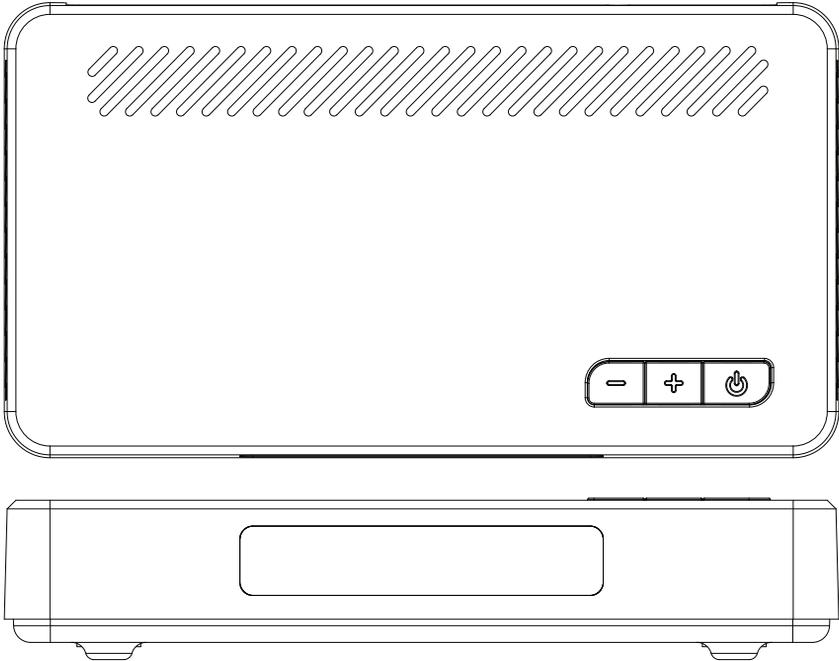
You can operate the digital receiver with the remote control or the buttons on the front panel.

NOTE

When the digital receiver is off but plugged into a wall socket, we say that it is in standby mode; on the other hand, when it is on, it is in active mode. Even when you are not using the digital receiver, you should keep it plugged into a wall socket to be in standby mode so that it can run timer events at any time.

1.2.1 Front panel

The front panel of the digital receiver has buttons to control the digital receiver, specific lights and a display.



-, + switch to previous or next service. Also navigate in menus and interactive screens.

⏻ switches the digital receiver between standby / active mode.

Front Display light blinks every time you press a button on the remote control.

light lights up while the digital receiver is in standby mode.

1.2.2 Remote control

-  button switches the digital receiver between standby mode and active mode.
-  not used in this model.
-  switches the remote control to television mode to operate your television.
-  switches the remote control to receiver mode to operate the digital receiver.
-  ,  not used in this model.
- Numeric buttons are used to enter a service number for service change or to specify values for menu options.
-  switches over between the current service and the previously viewed one.
-  displays the service information box. Also, displays more information about a programme.
-  not used in this model.
-  changes aspect ratio.
-  switches over between television services and radio services.
-  changes video resolution.
-  not used in this model.
-  displays the electronic programme guide.
-  ,  buttons switch to the previous or next service. Also, navigate in menus and interactive screens
-  displays the services list. Also, selects menu items.
-  ,  buttons decrease or increase the volume. Also, change values for menu options.
-  displays the main menu. Also, returns to the previous menu from a submenu.
-  exits a menu or hides on-screen information.

-   buttons decrease or increase the volume.
-  mutes the sound. Press again to switch it back on.
-  displays the list of recorded programmes that are stored in the external hard drive.
-   buttons switch to the previous or next service.
-  has different functions per menu.
-  has different functions per menu.
-  has different functions per menu.
-  has different functions per menu.
-  (White Button) has multi purpose functions.
-  selects subtitle track.
-  not used in this model.
-  sets a sleep timer in 10 minute increments.
-  starts recording.
-  stops playback, recording, or jumps back to live television from time-shifted television.
-  displays connected devices list.
-  selects audio track, sound mode, or video track of multifeed programme.
-  starts reverse playback. Subsequent presses increase the rewind speed.
-  pauses live television or playback of a recorded programme.
-  resumes normal playback speed, or displays the progress bar for navigation on playback or time-shift.
-  starts fast forward playback. Subsequent presses increase the playback speed.
-  jumps back to the beginning of the recording during playback.
-  starts slow motion playback. Subsequent presses change the playback speed.
-  has different functions per menu.
-  jumps to the end of the recording during playback.

Functions of the colour buttons will be guided on the screen.

NOTE

When using the remote control, point it at the remote sensor on the front panel of the digital receiver.

The actual images and the number of buttons may be different depending on the type of remote control provided by the manufacturer.

Chapter 2

Setup

2.1 Unpacking

Before going any further, check that you have received the following items with the digital receiver.

- Remote control
- Two batteries for the remote control (AAA 1.5 V)
- One HDMI cable
- A copy of the User Manual

NOTE

Accessories may vary according to your local area.

2.2 Safety precautions

Please read carefully the following safety precautions.

- The mains voltage must range between 100 and 240 volts. Check it before plugging the digital receiver to the wall socket. For the power consumption of the digital receiver, refer to Table 2.1.
- The wall socket should be near the equipment. Do not run an extension lead to the unit.

- The mains plug shall remain readily operable so that it can be removed easily to disconnect the power.
- When placed in a cabinet, make sure there is a minimum space of 10 centimetres around it. For the physical specification of the digital receiver, refer to Table 2.2.
- Protect the power cord from being walked on or pinched. If the cord is damaged, do not use the digital receiver and get the cord replaced.
- Refer all servicing to a qualified service technician.
- To maintain proper ventilation, always leave sufficient space around the digital receiver.

Table 2.1: Power specification

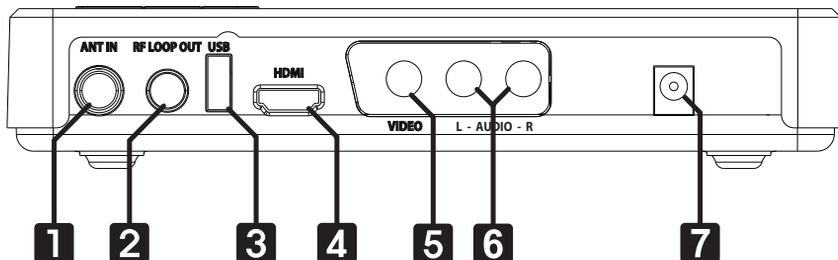
Input voltage	100 to 240 V AC, 50/60 Hz
Power consumption	11 W at maximum in active 1 W in standby

Table 2.2: Physical specifications

Size	195 × 35 × 100 mm
Weight(Net)	1.9 kg
Operating temperature	0 to 45 ° C
Storage relative humidity	5 to 90 %

2.3 Rear panel connections

The TBF-200HD has the following connections on the back:



Check what connections your television set has in comparison with the digital receiver.

- | | | |
|----------|-------------|--|
| 1 | ANT IN | Terrestrial broadcasting signal input socket (5V, Max.100mA) |
| 2 | RF LOOP OUT | Terrestrial broadcasting signal output socket through the ANT IN socket for another digital receiver |
| 3 | USB | USB port for firmware update and data transfer. |
| 4 | HDMI | Audio and video output socket for the high definition television set |
| 5 | VIDEO | Composite video output socket for the television set (yellow) |
| 6 | AUDIO L/R | Stereo audio output socket for the television set or the audio receiver (white/red) |
| 7 | DC IN | Power jack |

Table 2.3: Connectors specifications

HDMI	High definition video output Left & right audio output
VIDEO	Composite video (CVBS) output
AUDIO	Left & right audio output
USB	2.0 Host (5 V DC, 500 mA)

2.4 Connecting up your digital receiver

There are several ways to set up the digital receiver. Set up the digital receiver suitably to your television and other devices. If you have any problem with your setup or need help, contact your dealer.

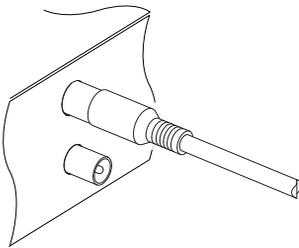
WARNING

Connect any components before plugging the power cord into the wall outlet. Always turn off the product, TV and other components before you connect or disconnect any cables.

NOTE

If you encounter any problems setting up your product, please contact your local retailer.

2.4.1 Connecting to the antenna



Whatever sort of connection you have between the digital receiver and the television, you need to connect the digital receiver to the antenna so that it can receive digital television broadcasts. Connect the antenna cable to the ANT IN connector. If you have another digital receiver, you may link it from the RF LOOPOUT connector.

NOTE

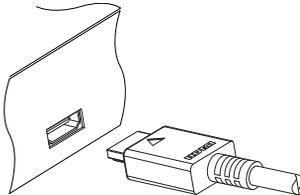
RF LOOPOUT may also be linked to your television, VCR, or DVD recorder to loop an analogue signal.

2.4.2 Connecting to your television set

For all the following connections of the digital receiver, we recommend you to use the first connector to get the best picture quality. If your television does not have a matching connector, then use the next connector in the following order for a better picture quality.

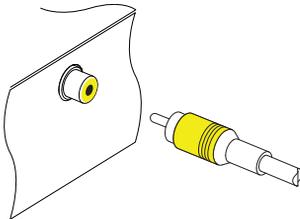
1. HDMI connector (HDMI)
2. Composite connector (VIDEO)

You should configure audio and video settings after connecting up the digital receiver. See §4.2 for a detailed description.

To use the HDMI output

If you have a high definition television set, you should use an HDMI cable for best results. Plug one end of the cable into the HDMI socket on the digital receiver, and plug the other end into the matching socket on your television.

In this case, you do not have to make audio connection because it can output stereo audio or digital audio as well.

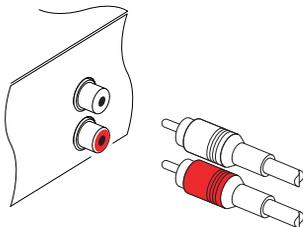
To use the Composite video output

You need to obtain a Composite video cable (RCA cable) to use the Composite video output. Plug one end of the cable into the VIDEO (yellow) socket on the digital receiver, and plug the other end into the matching socket on your television.

NOTE

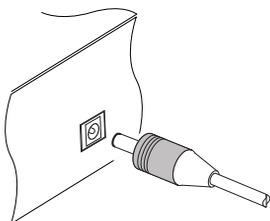
You cannot view high definition video by means of the Composite video output.

To make the audio connection



You need to obtain an audio cable (RCA cable) to link the audio connectors. Plug one ends of the cable into the AUDIO L (white) and AUDIO R (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television or audio-video receiver.

2.5 Switching on for the first time



Now that you have the digital receiver connected, you should connect the power adaptor's lead to the POWER jack and plug it into a wall socket. Ensure that your television set is turned on and on the correct video channel so that you will be able to see the display from the digital receiver.

Before switching on the digital receiver, you should insert batteries into the remote control. Open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment.

Press the  button on the top left corner on the remote control. In a little time, you may see a picture displaying a menu.

If you do not see a picture, try pressing the  button on the remote control. If after several tries you still get no picture, check that the television is set to the correct input. If the picture is good, you can skip to §3.1 to search for available television and radio services. Otherwise, you may need to temporarily

connect the Composite video connector (VIDEO) to your television set so that you can see the menu in order to configure the video settings.

CAUTION

If the digital receiver no longer reacts properly to the remote control commands, the batteries may be flat. Be sure to replace only with 1.5 V AAA size batteries, and observe the following precautions.

- Do not mix different types of batteries, or new and old batteries.
- Do not use rechargeable batteries.
- Do not recharge the old batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment.
- Do not subject to excessive heat such as the sun and fire.
- If you are not using the remote control for a long period of time, remove the batteries. The manufacturer accepts no liability for the damage resulting from leaking batteries.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

Chapter 3

Service Search

After connecting up the digital receiver, you will need to perform a service search.

NOTE

If there is no service stored, you will be not able to access all menus. A SERVICE is another name for a CHANNEL.

3.1 Searching for broadcasting services



To perform service search, select the Installation > Auto Scan menu. You should see a screen like the left figure.

By choosing Auto Scan, the digital receiver will automatically search for all available services.

To start service search, move down to the **Search** item, and press the **(OK)** button. The digital receiver will start to search for services and display a list of television and radio services as they are found. It is common for no channels to be found until quite late in the process. When the scan is complete, you will see a message telling you how many services have been found. Press the **(OK)** button to save the list.

3.2 Reset to factory settings

The digital receiver maintains the following data:

- Services list
- Favourite list
- Timer list
- Preference settings

You can reset all data of the digital receiver. Select the **System Setup > Factory Setting** menu, and then you get asked for confirmation. With the choice of **Yes**, the services list, favourite list and timer list will all be cleared, and preference options will be reset to the manufacturer's factory settings.

NOTE

A factory reset will not delete any recorded programmes. However, you have to search services again after a factory reset.

Chapter 4

Preference Settings

4.1 Language settings



You can select the language in which the menu will be displayed. In addition to that, you can select the language of audio track and of subtitle track. Select the **System Setup > Language** menu. You should see a screen like the left figure.

4.1.1 Menu language

The digital receiver provides menus in several different languages. Set the **Language** option to your desired language. Once you select a language, the menu will be immediately displayed in the selected language.

Apart from this setting, you can select a subtitle track with the  button. See [§5.2.4](#) for a detailed description.

4.1.2 Audio language

Set the **First Audio** option and the **Second Audio** option to your desired languages. When you watch a programme, if the programme has an audio track of the language that is specified for the **First Audio**, it will be output. If the first language is not available but the second language is, the audio of the second language will be output.

Apart from this setting, you can select an audio track with the  button. See §5.2.3 for a detailed description.

4.2 Video and audio settings



You have to configure the video and audio settings appropriately for your television set and other devices. Select the **System Setup > TV System** menu. You should see a screen like the left figure.

4.2.1 Video Resolution

The digital receiver supports various video resolutions from 576 to 1080. In general, a resolution of 720 or more is considered high definition. The higher the resolution is, the better the quality is. However, if your television set does not support high definition, you cannot enjoy high definition quality picture.

Set the **Video Resolution** option as you desire. If you set this option to 576P, the digital receiver will present even high definition programmes in resolution of 576. On the contrary, if you set it to 1080I, the digital receiver will present even standard definition programmes in resolution of 1080.

It is recommended to set it to **By Native TV** if you have a high definition television. With that setting the digital receiver will present a programme as it is without any resolution conversion. While watching television you can change the resolution with the **(VF)** button. When ever you press it, the video resolution is changed in turn.

4.2.2 Television aspect ratio

If you have a wide-screen television, set the **Aspect Mode** option to **16:9**.



You can enjoy both wide-screen programmes and normal-screen programmes with your wide-screen television as the above figures show. If you have a normal-screen television, set the **Aspect Mode** option to **4:3**.

* If you are not sure of which option to choose, set the **Aspect Mode** option to **Auto**.

4.2.3 Audio mode

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo or mono. Set the **Sound Mode** option as you desire.

Apart from this setting, you can change the sound mode with the **(M)** button. See §5.2.3 for a detailed description.

4.3 Local time setting



Select the **System Setup > Local Time Setting** menu. You should see a screen like the left figure. You can set the clock using the **Greenwich Mean Time (GMT)**, carried as part of the digital television broadcast.

To use **Greenwich Mean Time**, take the following steps:

1. The **Mode** will be set as **Auto**.
2. Set the **GMT Offset** option to the time difference between your time zone and **GMT** referring to [Table 4.1](#).
3. Make sure that your local time is correctly displayed on the **Time** section below.

If daylight saving time is observed in your area at the moment, set the **Daylight Saving Time** option to **On**.

NOTE

Daylight saving time adds one hour to the time when the option is set to **On**. When setting the time offset from **Greenwich Mean Time**, make sure that time offset does not include daylight saving time.

Table 4.1: Time offset table

Time offset	City
GMT – 12:00	Eniwetok, Kwajalein
GMT – 11:00	Midway Island, Samoa
GMT – 10:00	Hawaii
GMT – 09:00	Alaska
GMT – 08:00	Pacific Time US, Canada
GMT – 07:00	Mountain Time US, Canada
GMT – 06:00	Central Time US, Canada, Mexico City
GMT – 05:00	Eastern Time US, Canada, Bogota, Lima
GMT – 04:00	Atlantic Time Canada, La Paz, Dominican Republic
GMT – 03:30	Newfoundland
GMT – 03:00	Brazil, Georgetown, Buenos Aires
GMT – 02:00	Mid-Atlantic
GMT – 01:00	Azores, Cape Verde Islands
GMT – 00:00	London, Lisbon, Casablanca
GMT + 1:00	Paris, Brussels, Copenhagen, Madrid
GMT + 2:00	South Africa, Kaliningrad
GMT + 3:00	Baghdad, Riyadh, Moscow, St. Petersburg
GMT + 3:30	Tehran
GMT + 4:00	Abu Dhabi, Muscat, Baku, Tbilisi
GMT + 4:30	Kabul
GMT + 5:00	Ekaterinburg, Islamabad, Karachi, Tashkent
GMT + 5:30	Bombay, Calcutta, Madras, New Delhi
GMT + 6:00	Almaty, Dhaka, Colombo
GMT + 7:00	Bangkok, Hanoi, Jakarta
GMT + 8:00	Beijing, Perth, Singapore, Hong Kong
GMT + 9:00	Tokyo, Seoul, Osaka, Sapporo, Yakutsk
GMT + 9:30	Adelaide, Darwin
GMT + 10:00	Eastern Australia, Guam, Vladivostok
GMT + 11:00	Magadan, Solomon Islands, New Caledonia
GMT + 12:00	Fiji, Auckland, Wellington, Kamchatka

4.4 Parental control

In general, television programmes are classified according to the level of violence, nudity and language of their content. When you are watching a programme, you can check its programme classification on the information box.

For the information box, see §5.2.2. You can prevent your children from watching specific programmes by specifying a maximum permissible level.



Select the **System Setup > Parental Control** menu.

You should see a screen like the left figure, and you will be asked your Personal Identification Number (PIN).

The number is initially set to 2010 as default.

To block programmes with undesired content for family viewing, set the **Censorship** option to your desired level among the following:

- Off** restricts no programme.
- G** restricts to G or above. G rated programmes are suitable for all audiences.
- PG** restricts to PG or above rated programmes. PG stands for *Parental Guidance*, the content of which is mild.
- M** restricts to M or above rated programmes. M stands for *Mature*, the content of which is moderate in impact.
- MA** restricts to MA or above rated programmes. MA stands for *Mature Audience*, the content of which is strong.
- AV** restricts to AV rated programmes. AV stands for *Adult Viewing*, the content of which is deep hardcore.
- R** restricts to R rated programmes. R stands for *Restricted to adults* aged 18 years or over, the content of which is very strong.

NOTE

If a programme has no rating information, your censorship setting will not take effect.

If anyone is trying to watch a programme that is of or above the censorship setting, the person has to enter the Personal Identification Number password to override.

To change the number, select the **New Password** menu and enter the new 4 digit password. Enter the desired 4 digit number again by selecting the **Confirm Password** menu.

Now the Personal Identification Number has been changed to the 4 digit password you have setted.

You can also restrict access to all menus by selecting **Menu Lock** option to **On**, except the **System Setup** menu. If the **Menu Lock** option is set to **On**, you have to enter the PIN when accessing all menus, except the **System Setup** menu. If you enter a wrong number, you cannot access the menus. To release the menu lock, set the **Menu Lock** option to **Off**.

4.5 Options for On-Screen Display



To set the options for the On-Screen Display (OSD), select the **System Setup > OSD Setting** menu.

You should see a screen like the left figure.

To adjust the display time of the OSD, set the **OSD Timeout** option as you desire. Its available range is 1 to 10 seconds.

To adjust the transparency level of the OSD, set the **OSD Transparency** option as you desire. Its available range is **Off** to 40 percent.

Chapter 5

Every Day Use

5.1 Volume control

Use the **(V-)** and **(V+)** buttons to alter the volume to a comfortable level. You may need to adjust the volume on your television set too. To temporarily switch off the sound, press the **(M)** button. Press it again to restore the sound to previous level.

5.2 Watching television

To change services, press the **(P-)** or **(P+)** button. Pressing the **(D)** button switches to the previously viewed service. In addition, you can switch to your desired service by entering its service number with the numeric buttons. You can also select a service to watch in the services list.

5.2.1 The services list

To view the services list, press the **(OK)** button.



On the services list, you can see the service information as follows:

- Service number and name
- Multiplex information

To select a desired service, put the highlight bar on its entry with the  or  button and press the  button, then the selected service will be presented.

Pressing the  or  button skips over 10 entries up or down. Entering a service number with the numeric buttons puts the highlight bar on its entry.

You can switch between the television services list and the radio services list by pressing the  button.

5.2.2 Viewing programme information

Pressing the  button displays the information box, on which you can see all of the following:



- Service number and name
- Transponder information
- Signal level and quality
- Programme name
- Programme classification sign
- Programme summary
- Broadcasting time
- Current time

In addition, you might see the following symbols:

- Subtitle symbol (☐) if subtitle tracks are provided on the current programme.

Pressing the (i) button once more displays detailed information about the current programme. To hide the information box, press the (EXIT) button.

5.2.3 Selecting audio tracks

Some programmes are provided with audio tracks in one or more languages. Pressing the (M) button displays available audio tracks. Once you select an audio track, that track will be heard. In addition, you can enjoy audio tracks in four sound modes: Stereo, Mono, Left or Right.

5.2.4 Selecting subtitle tracks

Some programmes are provided with subtitle tracks in one or more languages. If the current programme provides subtitle tracks, the subtitle symbol (☐) will be marked on the information box. Pressing the (S) button displays available subtitle tracks. Once you select a subtitle track, it will be displayed.

5.3 Viewing electronic programme guide

The Electronic Programme Guide (EPG) shows the current and scheduled programmes that are or will be available on each service with a short summary for each programme.



Pressing the (EPG) button plays the electronic programme guide, on which you can see the following:

- Scheduled programmes
- programme summary
- Broadcasting date
- Broadcasting time

To see detailed information of a desired programme, put the highlight bar on the programme with the  or  button and press the  button. To switch to another service, press the  or  button.

NOTE

To see the programme guide for radio broadcasts, first switch the TV service to radio service by pressing the  button. After the service is switched to radio, press the  button while listening to the radio service. Press the  button to exit the Guide.

You can make a timer recording on the electronic programme guide. See §7.1.3 for detailed description.

5.4 Using time-shift

You can pause and resume a live television programme, and even rewind and replay it. When you are watching a programme and you miss something, you can rewind and replay it. Or when your attention is needed elsewhere, you can pause a live TV and resume a short time later without losing any of the programme.

When you do this, you are no longer watching the live programme, instead you are watching a delayed presentation. This is called time-shifted television. You can skip commercials until you catch up to the live broadcast.

In order to use the time-shift feature, set the Timeshift option to ON; located at USB > PVR Setting > Timeshift.

The time-shift will be reset each time you change to another service. With the time-shift, the following operations are possible:

- To go back in time, hold down the  button; to go forward, hold down the  button. The progress bar is displayed momentarily with a preview window.

- You can jump backward and forward by pressing the  and  buttons. You can change the jump time at the USB > PVR Setting > Jump option.
- You can change playback speed. See §7.3.1 for slow motion. For fast motion, see §7.3.2.
- To check your current position in time-shift, press the  button. The time difference compared to live programme is displayed momentarily in top right corner of the screen. A value of -02:00 means two minutes behind the live programme.
- To end time-shift, press the  button. The live programme will be displayed.

Chapter 6

Organising Services

6.1 Editing the services list

You would have got the services list after service search. You can lock, skip, move or rename service entries on the services list.

Select the `Edit Channel > TV Channel List` menu.

There are editing options on the bottom and service informations on the right.

- Sort

Sorting options are displayed as follows:

Name (A-Z) by A-Z service name order

Name (Z-A) by Z-A service name order

Free/ Scramble from free services to pay services

Default by service number

- FAV

You can set certain services as a group by using the FAV option. Select the service to set, and select the FAV option, then choose the Fav group to set. As you select the Fav group press the (OK) and the (heart icon) will appear next to the Fav group. After your finish, press the (EXIT) and you will see the (heart icon) mark next to the grouped services.

- Lock

You can lock some services to prevent your children from watching them. To lock a service, select the service to lock and select the Lock option; the Parental Lock code will be required to perform this feature. After the correct code is entered, the (lock icon) mark will appear next to the selected service. If anyone tries to watch a locked service, the Parental Lock code is required that is set to the Change PIN Code option. See §4.4 for this option. Selecting the Lock option on a locked service entry unlocks the service.

- Move

Unlike analogue broadcasts, each service does not have a proper service number in digital broadcasts. Service numbers are just assigned to services in the order that they were found in service search. So you can reassign the service order by moving a service entry. To move a service entry, select the desired service and select the Move option;  mark will appear next to the service selected. As you move it up or down, it gets re-ordered according to the position. Press the **OK** button to confirm the change.

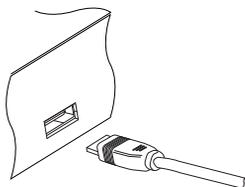
- Rename

To change the name of a service, select Rename; then the on-screen keyboard appears.

As you exit the TV Channel List menu, you will be asked to save the changes. Choose Yes and press the **OK** to save changes.

Chapter 7

Recording and Playback



If you want to record TV programmes, you have to connect an external hard drive or a USB memory stick to the USB port of the digital receiver.

NOTE

The external hard drive or USB memory stick should be formatted in NTFS or FAT file system. It is also recommended to use an external power socket to have the external hard drive supplied by its own power.

7.1 Recording a programme



Once a recording gets started, a symbol like the left figure will be displayed at the top left of the screen for a few seconds.

CAUTION

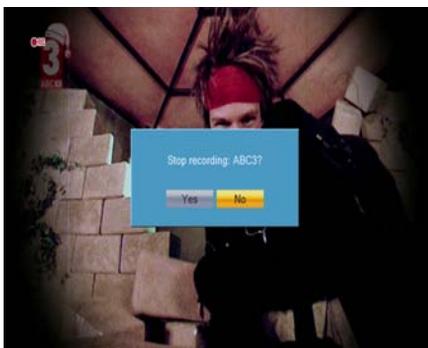
Do not move the digital receiver nor pull out the power plug while it is running. It may cause damage to recorded

programmes. Topfield is not responsible for damages inflicted on files that are stored on the hard drive.

7.1.1 Instant recording

To instantly record a programme you are watching at present, press the **●** button.

Pressing the **⏸** button will not pause the current recording like it does with a video recorder. Instead, pressing the **⏸** button will pause the live show and begin time-shifting within the current recording even with the Time Shifting option disabled. In short, it is still possible to pause a recording, but literally recording continues in the digital receiver.



To stop recording, press the **■** button; then a box like the left figure appears, which shows the programme currently being recorded. Select **Yes** and press **OK** button to stop the recording.

While a recording is going on, you can play back one of the recorded programmes. To view the recorded programme list, press the **⏮** button or alternatively select the **USB > Media Player > PVR** menu. See §7.2 for detailed description about the recorded programme list.

7.1.2 Timer recording

You can set a programme to be recorded at a specific time. Even if the digital receiver is in standby mode, it will switch into active mode and start recording at a specified time. When the recording comes to the end, the digital receiver will switch

back into standby mode again in one minute. However, if you press any button on the remote control or on the front panel even just one time, the digital receiver will not switch into standby mode.

To add a timer recording, select **Reservation** > **Reservation** menu, then the timer list will be displayed.

To add a new timer event, press the **OK** button, and a box for options will appear.

Take the following steps:

1. Set the option as you desire.
 - **Once** : record one time only
 - **Daily** : record everyday
 - **Off** : do not record
2. Select the service type.
 - **Channel** : switch to specified channel
 - **Record** : switch to specified channel and record
3. Set the **Channel** option to the service which provides the programme you want. Pressing the **OK** button on this option displays a services list, from which you can select your desired service.
4. Set the **Date** option to a desired date, on which the digital receiver will turn on.
The date format is *day/month/yearday of the week*.
5. Set the **Start Time** option to a desired time, at which the recording will be started. The time format is *hour: minute*.
6. Set the **Duration** option to a desired time, in which the recording will be finished.
7. To set a recording reservation with the above settings, select the **Save** item; otherwise, it will not be saved and will not occur.

You can also edit or delete timer events in the timer list. To edit a timer entry, put the highlight bar on the entry you want and press **OK** button; then appears a box in which you can change its settings in the same manner as making a new one.

To delete a timer event, put the highlight bar on the entry you want to remove and press the **F1** button, then you get asked for confirmation. With the choice of **Yes**, it will be deleted.

7.1.3 Scheduling recordings using the programme guide



If the electronic programme guide is properly provided, you can make timer events on it. The instructions on how to make timer recordings using the electronic programme guide are as follows:

1. Press the **EPG** button to display the electronic programme guide.
2. Select a programme you want to record with the navigation buttons.
3. To make a timer event without recording, press the **OK** button; the letter **P** is displayed. To make a timer event with recording, press it once more or alternatively press the **⊙** button, then the letter **R** is displayed.
4. Pressing the **OK** button once more will cancel the timer.

7.2 File archive

When a programme is recorded, it is stored as a file on the hard drive of the digital receiver. You can select a recording to play back from the recorded programme list.



Select the **USB > Media Player > PVR** menu or alternatively press the  button to display the recorded programme list. The file information is comprised of the following elements: file number, file name, recording time, running time, file size and so on.

You can play, move, delete, rename and lock a recording file. You can also sort the recording files by file name, running time or file size. In addition, you can make a new folder.

7.2.1 To delete a recording

To delete a recording, put the highlight bar on it and press the  button, then you get asked for confirmation. With the choice of **Yes**, it will be deleted.

7.2.2 To lock a recording

To lock a recording so that other persons cannot play or delete it, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the  button to display additional options.
3. Set the **Lock** option to **Locked**.
4. Press the **EXIT** button.
5. The lock symbol () is displayed on it.

If you select a locked recording to play it back, you will be asked for your personal identification number.

7.2.3 To rename a recording

To change a recording's name, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the  button to display additional options.
3. Select the **Rename** option, and the on-screen keyboard appears. Change the name and save it.

7.3 Playing back a recording

When a programme is recorded, its additional contents such as audio track or subtitle track are also recorded together. So you can enjoy them while playing back a recording.

The instructions on how to play a recording are as follows:

1. Select the **USB > Media Player > PVR** menu or alternatively press the  button to display the list of recorded programmes.
2. Put the highlight bar on a desired recording and press the  button, then an option box pops up.
3. To play from beginning, set the **Starting Position** option to **Beginning**; to play from the point that you have stopped at the last time, set it to **Continuing**. To start playback, select the **Play** item.
4. To stop playback, press the  button.

During playback, you can enjoy the following tricks:

- To see the detailed information about the currently played recording, press the  button; then the information box appears and shows its file name, running time, programme information, and so on.
- To pause playback, press the  button. To resume it, press the  button.
- To view the progress bar, press the  button; to hide it, press the  button again.
- When the progress bar is hidden, you can move to a desired scene by entering a progress percentage with the numeric buttons.

7.3.1 To play in slow motion

To watch in slow motion during a playback, press the  button. If you press it repeatedly, the playback speed changes in 4 steps: 1/2, 1/4 and 1/8 times. To resume normal speed, press the  button.

7.3.2 To play in fast motion

To watch in fast motion during a playback, press the  button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the  button.

You can play not only forward but also backward in fast motion. To play backward, press the  button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the  button.

You can change the playback speed in 5 steps (2, 4, 8, 16 and 24 times).

7.3.3 To play back recordings in sequence

You can play several recordings continuously in sequence by performing the following steps:

1. Press the  button or alternatively select the **USB > Media Player > PVR** menu to display the list of recorded programmes.
2. Select each desired recording with the  button. Once a recording is selected, it gets numbered.
3. Press the  button to start playback.
4. The selected recordings are played in the sequence that they are numbered.
5. To jump to the beginning of the next recording in the queue, press the  button to display the progress bar, then press the  button.

7.4 Playing back a video file

If you have media files such as photos, videos, and music, you can also enjoy them with the digital receiver by simply selecting a file you want to display or play back. Media file formats* that you can play back with the digital receiver are as follows:

- Video: xvid, mp4, mpg, mov, flv, mkv, vob, 3gp and avi
- Image: jpg
- Music: mp3

NOTE

* Due to the variations of video/audio codec types, there could be certain files not playable.

7.5 Formatting the hard disk

You can delete permanently all contents stored in a hard drive by formatting it. Select the **USB > PVR Storage Information**. By pressing the  button, you get asked for confirmation. Formatting will start with the choice of **Yes**.

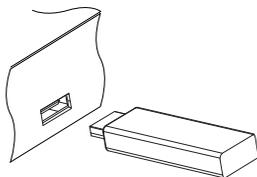
Chapter 8

Firmware Update

The digital receiver has a stable and convenient firmware to use. However, once in a while a new firmware may be released to improve the digital receiver. You can get the latest firmware and the firmware update tool, which runs on most versions of Windows, from the Topfield website, <http://www.topfield.com.au>

8.1 From a memory stick

If you have a USB memory stick, you can update the firmware from it by taking the following steps:



1. Download a new firmware from the Topfield website.
2. Copy the firmware file to your memory stick.
3. Insert the USB memory stick into the USB port on the digital receiver.
4. Select the **USB > Upgrade By USB >** menu, and the files in the USB memory will be listed.
5. Place the highlight bar on the right firmware file and

press the button, and a countdown will be displayed on the front display of the digital receiver.

6. When the message of 'END' appears, restart the digital receiver.

Universal Remote Control

Important notes about the batteries

When the batteries are low, replace the batteries as below:

- Please do not press or hold any buttons when you are replacing the old batteries, because the remote control could delete the programmed settings before.

After replacing the batteries you can control your PVR box as usual.

Remote Control Care

- Don't drop the remote control unit.
- Don't let it come into contact with any kind of liquids.
- Use a dry cloth to clean the remote control unit.

Introduction

Your new Topfeld Universal Remote Control operates compatible Topfeld PVR device and other manufacturer's TVs.

- Switching the TV to/ from Stand-by.
- Changing TV channels via the number buttons.
- Volume Control Function.
- Multimedia Control Function.

All you have to do is set up the remote control to work with your particular equipment.

Please read this guide carefully to make sure the setup is done properly and that you are getting the most out of your remote control.

Installation

The remote control runs on 2 x AAA batteries.

To insert or replace the batteries, follow these steps;

- 1) Push the catch on the battery cover upwards and pull the dark cover of the main part.
- 2) Carefully remove the old batteries (if applicable) then insert the new batteries, matching the + and - signs.
- 3) Once the batteries are in, put the cover back on, making sure the cover clicks into place.

When you're using the remote control, make sure:

- You point it straight at the Topfeld PVR box (or TV);
- There's nothing blocking the infrared receiver on the PVR box (or TV).

Set up

If your TV is made by Philips then your remote control is already set up for your TV set as well as your Topfield receiver

For other brand TV, follow one of the settings listed.

1. Key in TV code

- 1) Turn on your TV.
- 2) Find your TV code from TV Code List in manual.
- 3) Press TV button on your remote control.
- 4) Hold down OK and the Red key together for about 2 seconds until the light on your remote control flashes twice.
- 5) Key in the 4-digit TV code of your TV. The light on your remote control flashes twice.
If you see it flash only once, check you've got the right code and enter it again from step 3).

The settings are done and your remote control should now work with your TV.

2. Search TV code by Brand code

- 1) Turn ON your TV and Topfield PVR box.
- 2) Find your TV Brand Code from list in manual.
- 3) Press TV button on your remote control.
- 4) Hold down OK and the Red key together for about 2 seconds until the light on your remote control flashes twice.
- 5) Press TV again.
- 6) Key in the 4-digit Brand Code of your TV. The light on your remote control flashes twice.
If you see it flash once, check the correct code and enter again.

3. Auto search TV code

- 1) Turn ON your TV and Topfield PVR box.
- 2) Press TV button on your remote control.
- 3) Hold down OK and the Red key together for about 2 seconds until the light on your remote control flashes twice.
- 4) Press POWER again, the LED will be turned on and start to search.
The remote will transmit a code of [POWER] button per 1.5 seconds automatically to the TV, and the TV button will flash.
- 5) As the code is found, the TV will be turned OFF and back ON.
- 6) Now press the OK button to save.

NOTE

1. In this feature, if you can not press the [OK] button to save the code in time, you can press [P+] or [P-] button to pause search when your TV to be turned OFF, then press the [P+] button to forward search and press [P-] to back off search of the code libraries manually, until you find the correct Brand Code of your TV, then press [OK] button to save and go out the search state.
2. The device button will light off and go out when using this feature to search full code library. It could take upto 10 minutes, please wait patiently.

Checking the TV code

You can check the TV CODE of your TV as below:

- 1) Press TV button on your remote control.
- 2) Key in 9-9-0 to start this function. The light on your remote control will flash twice.
- 3) According to priority, press the number 1,2,3 or 4.
Observe the flash times of the remote control.
The flashing time is the Code number of your TV.

For example, if the TV CODE is 1530:

1. After pressing the 1 key: the remote control light flashes 1 time
2. After pressing the 2 key: the remote control light flashes 5 times
3. After pressing the 3 key: the remote control light flashes 3 times
4. After pressing the 4 key: the remote control light fast flashes 10 times

NOTE

In this feature, you only can press the 1~4 number keys.
If you press other button, the remote control will exit this feature automatically.

Multi-control for Volume

You can control your TV's Volume +/- or MUTE when your remote control working in STB state.

To Enable or Disable this function:

- 1) Press TV button on your remote control.
- 2) Hold down OK and Red button together for about 2 seconds until the remote control flashes twice.
- 3) Key in 9 – 9 – 1 and the LED will flash twice.
- 4) Now this function is Enabled.

Now, when your remote control is in STB state, you can control your TV's Volume +/- or MUTE directly.

To Disable this function, key in 9 – 9 – 2.

Multi-control for Media playback

Through this function, in TV mode you do not need to switch to PVR mode to control Play, Stop, Pause, Record, REW and FFW function of STB.

To Enable or Disable this function:

- 1) Press TV button on your remote control.
- 2) Hold down OK and the Red button together for about 2 seconds until the remote control flashes twice.
- 3) Key in 9 - 9 - 5 and the LED will flash twice.
- 4) Now this function is Enabled.

Now, when your remote control working in TV state, you can control your STB's Play, Stop, Pause, Record, REW and FFW directly.

To Disable this function, key in 9 - 9 - 6.

All OFF function

You can power ON/OFF your TV and STB at same time through the POWER button.

To Enable or Disable this function:

- 1) Press TV button on your remote control.
- 2) Hold down OK and the Red button together for about 2 seconds until the remote control flashes twice.
- 3) Key in 9 - 9 - 7 and the LED will flash twice.
- 4) Now this function is Enabled.

When the remote control is in TV mode, you can power ON/OFF the TV and the STB at the same time directly by pressing the POWER button.

To Disable this function, key in 9 - 9 - 8.

Factory setting

If you want to go back to factory settings:

- 1) Press TV button on your remote control.
- 2) Hold down OK and the Red key together for about 2 seconds until the remote control flashes twice.
- 3) Key in 9 - 9 - 9 and the LED will flash four times.

Now the remote control goes back to factory settings. (STB mode)

Brand	Brand Code	TV Code
Aiwa	0406	0039,0064,0185,0402,0279,0733,0733,1533,1932,1936,1942,
Admiral	0182	0115,0191,0391,0446,1221,
Adyson	0035	0244,0245,
AGB	0010	0103,0544,
Aiko	0038	0037,0063,0065,0100,0244,0245,0292,0297,0389,0399,0461,0584,
Akai	0096	0065,0219,0236,0297,0322,0389,0399,0440,0501,0508,0544,0742,0743,0840,
Akai	0098	0065,0236,0379,0471,0508,0544,0609,0630,0659,1065,1287,1936,
Akito	0892	0065,0300,0584,
Akura	0042	0065,0199,0246,0292,0304,0310,0311,0383,0387,0440,0502,0521,0742,1065,1584,
Alba	0043	0037,0064,0065,0246,0263,0399,0446,0471,0607,0609,0696,0742,1065,1932,1936,
Allorgana	0050	0245,0322,
Amplivision	0062	0245,0398,
Amstrad	0063	0037,0063,0065,0103,0199,0205,0246,0292,0382,0390,0399,0440,0461,0544,0607,0609,0609,1065,1234,1932,
Anitech	0070	0037,0065,0104,0292,0310,0502,0584,
Arcam	0077	0244,0245,
ASA	0014	0098,0115,0132,0133,0374,
Asberg	0895	0065,0104,0584,
Asuka	0094	0244,0245,0246,0292,0310,1932,
Audiosonic	0103	0037,0065,0137,0246,0292,0365,0402,0514,2011,
Autovox	0108	0104,0115,0245,0275,0377,0572,
Baird	0117	0100,0101,0137,0218,0220,0221,0236,0245,0371,1224,1932,
Bang & Olufsen	0118	0115,0593,
Basicline	0121	0037,0065,0191,0245,0246,0310,0367,0402,0402,0584,1065,1696,
Baur	0122	0037,0038,0065,0219,0223,0245,0377,0389,0533,0533,0540,0563,0572,1038,1533,
Beko	0125	0063,0065,0398,0446,0514,0584,0634,0634,0742,0743,0836,1065,1219,
Beon	0899	0065,0446,0584,
Binatone	0131	0245,
Blaupunkt	0133	0064,0198,0219,0223,0563,
Blue Sky	0134	0065,0246,0310,0515,0584,0742,0743,0836,1065,1219,1932,1936,1937,1962,
Blue Star	0136	0310,
Bondstec	0138	0275,
Boots	0139	0245,0300,0037,
BPL	0115	0065,0310,0584,1073,
Brandt	0143	0137,0224,0226,0315,0363,0371,0499,0588,0653,
Bronvega	0147	0065,0115,0390,0584,
Britannia	0149	0244,0245,
Bruns	0152	0115,0514,
BSR	0116	0191,0322,0389,
BTC	0898	0246,
Bush	0157	0037,0064,0065,0239,0246,0263,0292,0300,0310,0312,0377,0383,0391,0399,0402,0515,0547,0584,0607,0642,0645,0688,0689,0696,0705,0724,0726,0742,0806,1065,1271,1287,1584,1928,1932,1936,1963,1982,
Carrefour	0189	0064,0065,0098,0584,
Cascade	0902	0037,0065,0584,1233,
Cathy	0903	0065,0502,0584,
Centurion	0904	0065,0584,0726,
Century	0197	0266,0275,0115,
CGE	0162	0102,0104,0191,0275,0304,0398,0446,1932,
Cimline	0202	0037,0115,0246,0263,0275,
Clarivox	0905	0065,0098,0446,0584,1191,
Cletronic	0205	0037,0065,0104,0245,0246,0275,0292,0389,0398,0399,0446,0584,0607,0634,0742,1932,
Condor	0218	0037,0065,0191,0244,0275,0292,0310,0398,0446,0498,0584,
Contec	0222	0037,0039,0064,0065,0185,0244,0292,0584,
Continental	0223	0137,0224,0226,0315,0515,
Crosley	0074	0102,0104,0115,0191,0275,
Crown	0225	0037,0065,0104,0236,0367,0387,0398,0440,0446,0514,0515,0515,0584,0607,0634,1962,

Brand	Brand Code	TV Code
Crystal	0906	0459,
CS Electronics	0163	0244,0246,0275,1236,1784,
CTC	0901	0275,
Cybertron	0228	0246,
Daewoo	0092	0037,0065,0136,0198,0244,0245,0246,0402,0527,0536,0584,0662,0662,0689,0689,0893,0904,0908,1165,1231,1246,1294,1295,1300,1930,1936,1937,
Dainichi	0237	0244,0246,
Dansai	0238	0037,0063,0064,0065,0244,0245,0292,0440,0584,
Dayton	0241	0037,1235,
Decca	0244	0065,0077,0100,0103,0245,0272,0277,0300,0544,0584,0649,1084,1084,1165,1177,1217,1932,1936,2016,
DeGraaf	0243	0072,0191,0236,0255,0391,0576,
Dixi	0254	0037,0065,0399,0584,0916,1752,
Dual	0257	0245,0371,0377,0547,0559,0559,0572,0615,0659,1165,1165,1265,1265,1292,
DualTec	0907	0245,0701,0893,0900,1732,
Dumont	0256	0045,0098,0100,0115,0132,0132,0218,0221,0245,1465,1932,1992,
Elin	0273	0037,0065,0132,0133,0191,0219,0244,0244,0377,0389,0576,0576,0584,0584,1276,1287,
Elite	0274	0065,0246,0584,
Ella	0275	0037,0244,0292,0459,0502,1236,
Emerson	0236	0065,0098,0104,0115,0199,0205,0206,0207,0275,0310,0349,0389,0398,0399,0514,0584,0696,0742,0742,1696,1932,1937,
Erres	0283	0040,0065,0584,0724,0859,0861,0868,0909,1150,1219,1350,
Europhon	0287	0065,0103,0191,0244,0245,0275,0311,0459,0544,0584,
Ferguson	0293	0063,0065,0101,0132,0136,0137,0218,0220,0221,0236,0266,0315,0363,0371,0389,0471,0499,0576,0576,0584,0588,0653,0702,1065,1932,
Fidelity	0294	0065,0191,0199,0221,0244,0292,0379,0389,0391,0399,0411,0440,0440,0460,0502,0540,0544,0559,0572,0584,0616,1932,1935,1936,
Finlandia	0296	0073,0100,0191,0236,0315,0371,0374,0387,0389,0391,0576,
Finlux	0297	0065,0098,0100,0103,0104,0115,0132,0133,0191,0207,0245,0292,0374,0501,0508,0544,0584,0634,0649,0657,0659,0742,0742,0743,0836,1584,
Firstline	0298	0037,0065,0100,0191,0244,0245,0263,0266,0275,0322,0349,0389,0402,0402,0559,0572,0584,0836,1065,1191,1219,1696,1937,
Fisher	0154	0064,0064,0073,0100,0115,0312,0185,0185,0191,0236,0245,0377,0389,0398,0572,0583,0902,
Forgestone	0299	0221,
Formenti	0301	0065,0104,0115,0191,0244,0514,0584,1177,
Frontech	0308	0037,0121,0191,0245,0275,0292,0377,0391,0391,0459,0502,0683,
Fujiitsu	0313	0037,0065,0100,0123,0191,0207,0245,0389,0584,0711,0881,1276,1287,1326,
Funai	0179	0199,0207,0292,0322,0322,0440,0696,1696,
GEC	0319	0065,0071,0100,0103,0191,0206,0245,0377,0389,0544,0763,
Geloso	0327	0037,0191,0275,0391,0402,
Genexxa	0330	0037,0065,0191,0246,0382,0440,0521,0584,
Goldstar	0056	0037,0045,0065,0137,0206,0245,0275,0318,0389,0391,0398,0405,0459,0634,1234,1245,
Goodmans	0335	0037,0063,0064,0065,0072,0100,0103,0137,0191,0207,0244,0245,0245,0246,0246,0263,0275,0285,0292,0297,0311,0318,0363,0371,0389,0391,0392,0398,0399,0402,0405,0459,0502,0508,0515,0527,0544,0563,0667,0607,0607,0615,0616,0634,0662,0689,0696,0742,0743,0836,0908,1065,1191,1287,1336,1696,1928,1936,1937,1962,
Gorenje	0336	0398,
GPM	0321	0246,
Graetz	0339	0065,0191,0198,0367,0389,0399,0574,0584,0742,0742,1191,
Granada	0340	0040,0064,0065,0072,0073,0100,0103,0104,0136,0191,0229,0236,0245,0253,0254,0363,0367,0371,0379,0384,0387,0391,0497,0501,0530,0544,0576,0584,0588,
Grandin	0342	0037,0065,0098,0191,0219,0223,0246,0310,0402,0471,0563,

Brand	Brand Code	TV Code
		0584,0607,0696,0733,0742,0743,0843,0893,0908,1065,1191,1219,1696,
Grundig	0345	0037,0064,0065,0098,0104,0219,0223,0398,0471,0515,0536,0563,0584,0615,1219,1251,1302,1336,1936,1963,1982,
Hanseatic	0353	0037,0065,0115,0191,0245,0304,0310,0322,0377,0379,0389,0398,0405,0459,0547,0572,0662,0733,0836,
Hantarex	0354	0037,0065,0266,0544,0544,0584,0587,
Harwood	0361	0037,0065,0071,0207,0285,0440,0515,0584,1224,1297,
HCM	0347	0037,0065,0245,0246,0292,0310,0440,0446,0584,
Hinari	0365	0037,0064,0065,0191,0207,0239,0246,0263,0292,0311,0322,0383,0392,0471,0515,0584,1936,2011,
Hisawa	0368	0246,0310,0724,0742,1236,1936,
Hitachi	0145	0037,0064,0065,0065,0071,0072,0100,0103,0123,0133,0136,0137,0191,0206,0222,0224,0226,0245,0253,0255,0304,0371,0377,0384,0389,0391,0469,0497,0501,0508,0509,0527,0540,0544,0576,0584,0591,0604,0606,0657,0662,0747,0758,0765,0772,0805,0825,0912,1065,1013,1165,1177,1183,1185,1222,1253,1509,1604,
Huanyu	0912	0065,0244,0255,0292,0402,0918,1245,1323,
Hypson	0374	0065,0245,0292,0310,0514,0584,0696,0742,0743,1180,1272,1309,1322,1936,
ICE	0378	0037,0065,0244,0245,0246,0292,0399,0584,
ICeS	0913	0244,0246,
Imperial	0387	0065,0102,0103,0104,0191,0224,0275,0110,0377,0389,0398,0398,0446,0459,0498,0498,0559,0584,1326,
Indiana	0914	0065,0584,1192,
Ingelen	0915	0191,0389,0515,0742,
InnoHit	0916	0037,0040,0100,0104,0245,0246,0318,0544,0547,0584,1191,
Interfunk	0394	0040,0065,0115,0137,0191,0275,0377,0389,0398,0540,0574,0584,
Intervision	0397	0065,0245,0292,0310,0399,0405,0514,0547,1937,
ITSuik	0398	0065,0246,0310,0584,
ITTS	0393	0037,0065,0244,0246,0292,0310,0399,0584,
ITT	0384	0191,0207,0221,0236,0311,0312,0367,0374,0377,0379,0389,0389,0501,0508,0508,0572,0574,0576,
JVC	0053	0064,0218,0220,0221,0246,0254,0399,0446,0536,0634,0681,0711,0759,1992,
Kaisui	0409	0037,0065,0244,0245,0246,0310,0584,
Kapach	0917	0132,0191,0389,
Kathrein	0411	0065,0584,0908,
Kendo	0414	0065,0133,0191,0263,0275,0390,0391,0398,0405,0540,0547,0584,
Kingsley	0418	0244,
Korpel	0423	0065,0584,0828,
Korting	0424	0115,0390,0398,
Koyoda	0918	0037,
Leyco	0434	0065,0100,0292,0322,0322,0584,0607,0749,1206,1224,1293,
Liesenk&Tier	0919	0065,0584,
Loewe	0442	0065,0115,0164,0540,0634,0661,0683,0711,0726,0851,0857,1174,1176,1206,1276,1280,1293,1665,
Luma	0447	0037,0065,0191,0390,0391,0402,0584,0696,1065,1245,1696,
Luxor	0452	0399,0101,0191,0207,0222,0236,0245,0318,0374,0377,0384,0389,0391,0501,0508,0574,0587,1191,
Magnadyne	0461	0103,0115,0191,0275,0544,0572,
Magnafon	0462	0101,0103,0104,0244,0544,
Manesth	0467	0063,0065,0191,0245,0263,0292,0304,0322,0391,0584,0806,0904,1295,1317,
Marantz	0128	0065,0440,0584,0882,
Marelli	0471	0115,
Mark	0472	0037,0065,0244,0245,0402,0584,0742,0743,
Matsui	0477	0037,0039,0063,0064,0065,0073,0100,0103,0191,0205,0219,0223,0236,0239,0245,0263,0285,0297,0300,0322,0363,0377,0382,0383,0391,0399,0459,0461,0471,0498,0515,0544,0572,0584,0607,0616,0657,0742,0806,1065,1191,1936,
McMichael	0481	0071,0816,0817,
Mediator	0483	0040,0065,0584,
MElectronic	0453	0037,0040,0065,0132,0374,0374,0540,0540,0584,1249,1317,1465,
Memorex	0037	0037,0207,1065,
Memphis	0489	0037,0100,0365,
Metz	0491	0065,0115,0219,0223,0395,0475,0563,0584,0615,0696,0774,0774,1065,1191,1696,

Brand	Brand Code	TV Code
Minerva	0494	0098,0098,0104,0136,0219,0223,0515,0544,0563,
Minoka	0921	0065,0387,0440,0584,
Minstral	0922	0221,
Minstral-Electronics	0923	0221,
Mitsubishi	0150	0064,0065,0115,0121,0136,0206,0207,0221,0229,0236,0382,0386,0502,0540,0563,0584,0719,0896,1065,1307,1962,0104,0244,0245,0318,0398,0544,
Mivar	0500	0104,
Motion	0503	0104,
MTC	0185	0077,0191,0244,0300,0377,0389,0540,1336,
Multitech	0508	0037,0065,0077,0104,0244,0377,0391,0514,0696,1065,1584,1696,
National	0521	0194,0236,0236,0242,0254,0255,0634,
Nechermann	0524	0038,0065,0115,0191,0219,0245,0275,0377,0391,0398,0446,0533,0540,0584,1038,1533,
NEI	0514	0065,0191,0365,0399,0459,0584,0799,0910,1163,1298,1398,1732,
Nesco	0525	0207,0275,1234,1396,1992,
Nicam	0924	0572,
Nikkai	0528	0037,0063,0064,0065,0100,0244,0245,0246,0292,0365,0584,
Nobiko	0535	0098,0104,0244,
Nokia	0536	0137,0191,0191,0207,0236,0367,0374,0377,0379,0387,0389,0402,0501,0508,0574,0576,0634,0659,
Nordmende	0537	0065,0137,0191,0223,0224,0226,0363,0371,0499,0584,0588,0742,1287,
Oceanic	0540	0191,0236,0322,0389,0501,0508,0576,0591,
Orwa	0544	0194,0246,0399,0461,0516,0609,0630,0630,0678,
Orion	0549	0037,0039,0065,0205,0207,0239,0263,0292,0297,0322,0349,0383,0392,0440,0471,0502,0505,0544,0559,0572,0584,0683,0683,0742,0908,1224,1936,1982,
Osaki	0550	0065,0100,0239,0245,0246,0285,0292,0297,0300,0304,0383,0402,0440,0502,0521,0584,0616,
Oso	0551	0246,
Osume	0552	0064,0065,0100,0185,0246,0502,0584,
OttoVersand	0554	0037,0038,0064,0065,0137,0219,0223,0245,0254,0263,0275,0310,0322,0371,0377,0389,0459,0533,0540,0544,0547,0563,0572,0584,1038,1231,1533,
Palladium	0560	0038,0065,0115,0191,0219,0245,0275,0377,0391,0391,0398,0446,0533,0547,0584,0683,1265,1533,
Panama	0562	0037,0037,0065,0244,0245,0275,0292,0584,
Panasonic	0051	0065,0103,0136,0136,0191,0242,0254,0254,0302,0302,0379,0389,0395,0490,0544,0576,0584,0678,0742,0878,0881,1238,1338,1678,
PatheCinema	0567	0191,0244,0266,0377,0398,0459,
PatheMarconi	0568	0137,0224,0226,
Pausa	0569	0037,0137,0224,0226,
Perdio	0572	0065,0100,0191,0244,0297,0310,0584,
Plico	0030	0065,0102,0104,0115,0191,0275,0398,0502,0547,0584,
Philips	0081	0037,0040,0065,0071,0115,0219,0221,0266,0371,0402,0451,0584,0718,0718,0800,1317,1332,1482,1784,1784,
Phoenix	0574	0065,0100,0115,0191,0244,0297,0398,0398,0498,0514,0584,0584,0616,
Phonola	0575	0040,0065,0115,0221,0244,0584,
Pioneer	0166	0039,0065,0137,0191,0194,0198,0315,0371,0389,0398,0451,0514,0540,0584,0636,0707,0788,
PrandoniPince	0927	0103,0104,0275,0389,0391,0544,0799,1297,
Profex	0592	0037,0065,0104,0191,0349,0389,0391,0459,0649,0653,0662,
Proline	0593	0040,0065,0100,0349,0584,0649,0653,0662,
Protect	0595	0037,0065,0191,0245,0275,0292,0310,0365,0377,0446,0459,0514,0584,1065,1696,
Pye	0600	0040,0065,0115,0377,0402,0440,0584,1246,
Quelle	0604	0038,0039,0065,0098,0102,0389,0533,0540,0563,0572,1038,1065,1533,
Questa	0863	0684,
Radiola	0611	0040,0065,0245,0584,
Radiomarelli	0612	0065,0103,0115,0229,0275,0544,0584,
Rank Arena	0928	0064,0185,060,
RBM	0606	0098,0117,0646,
Rediffusion	0617	0064,0229,0374,0379,0389,0576,
Revox	0621	0065,0398,0584,0904,0905,0906,1235,1237,1239,1241,1242,1243,1296,1326,
Rex	0622	0191,0275,0292,0391,
RFT	0608	0065,0100,0115,0292,0398,0584,
R-Line	0605	0065,0191,0584,
Roadstar	0625	0037,0065,0246,0292,0310,0446,0584,0696,0742,1065,1217,

Brand	Brand Code	TV Code
		1696, 1928,
Saba	0645	0103,0115,0137,0191,0224,0226,0315,0363,0371,0389,0499,0544,0576,0588,0653,0742,
Saccs	0929	0266,
Saikou	0648	0285,1341,
Saisho	0649	0037,0039,0103,0101,0205,0239,0244,0245,0263,0292,0382,0402,0459,0544,0572,0662,
Salora	0651	0103,0191,0222,0236,0318,0318,0367,0377,0384,0387,0389,0391,0392,0508,0544,0574,0576,0649,0659,1231,1265,
Sambers	0652	0103,0104,0544,
Samsung	0060	0037,0065,0100,0118,0191,0206,0236,0244,0245,0292,0318,0398,0510,0516,0547,0584,0615,0642,0646,0653,0672,0710,0730,0746,0794,0840,1263,1277,1340,
Sandra	0654	0244,0245,
Sanyo	0159	0037,0039,0064,0065,0073,0100,0132,0136,0185,0191,0198,0236,0244,0245,0246,0263,0367,0398,0440,0502,0514,0536,0572,0583,0584,0732,0749,0763,0827,0921,1236,
SBR	0635	0040,0065,0071,0221,0584,
Schaub Lorenz	0664	0377,0389,0402,0514,0574,0576,0634,0742,1219,1295,
Schneider	0665	0040,0065,0065,0191,0245,0246,0275,0371,0377,0389,0399,0547,0572,0584,0696,0742,1065,1165,1265,1932,1936,1937,0038,0038,0065,0103,0115,0191,0205,0322,0322,0377,0390,0533,0544,0572,0584,1038,1217,1533,
SEI	0637	0038,0065,0115,0533,0544,0572,0584,1038,1533,
Sei-Sinudyne	0930	0064,0191,0292,0374,0390,0391,0399,0701,
Seleco	0672	0037,0063,0246,0304,0311,0377,
Sentra	0674	0037,0037,0064,0065,0121,0185,0221,0322,0502,0519,0544,
Sharp	0093	0678,0681,0788,0815,0846,0860,1121,1191,1221,1421,0207,0322,
Shorai	0677	0103,0115,0191,0544,
Siarem	0679	0065,0185,0219,0223,0389,0563,0584,
Siemens	0680	0064,0065,0191,0207,0389,0584,0743,
Silver	0864	0037,0065,0115,0191,0275,0363,0584,0726,1325,
Singer	0688	0115,0205,0263,0322,1038,1533,1936,
Sinudyne	0689	0115,0205,0263,0322,1038,1533,1936,
Skantic	0690	0384,
Solarvox	0695	0065,0100,0191,0379,0389,0576,0584,0908,
Sonitron	0698	0236,0245,0367,0398,
Sonoko	0699	0037,0065,0245,0292,0310,0584,
Sonorol	0931	0038,0191,0236,0310,0389,0533,0576,1038,1533,
Sontec	0700	0037,0065,0191,0236,0322,0398,0584,1533,
Sony	0000	0038,0039,0064,0065,0102,0185,0229,0381,0505,0533,0584,0678,0679,0770,0862,0862,1038,1533,1584,1679,1779,0065,0446,0584,0743,
Soundwave	0702	0037,0065,0245,0246,0402,0584,1065,
Standard	0707	0191,0292,0391,
Stem	0719	0065,0246,0263,0322,0349,0383,0515,0559,0584,0893,
Sunkai	0721	0246,0297,0315,0363,0502,0871,
Susumu	0729	0065,0584,
Sysline	0932	0100,0121,0191,0245,0246,0275,0304,
Tandy	0741	0064,0071,0191,0198,0244,0245,0285,0387,0391,0616,0678,0749,
Tashiko	0745	

Brand	Brand Code	TV Code
Tatung	0049	0037,0039,0064,0065,0077,0100,0103,0245,0272,0277,0300,0502,0544,0581,0584,0649,0657,1084,1584,1784,1936,
Tec	0746	0037,0065,0191,0245,0275,0304,0363,0365,0389,0499,0502,0584,1752,1783,
Technics	0250	0678,
TechnoAce	0934	0207,0292,0726,
Teleavia	0755	0137,0224,0315,0371,
Telefunken	0757	0065,0101,0102,0129,0137,0224,0312,0315,0363,0371,0499,0505,0514,0584,0588,0615,0653,0726,0730,0742,0065,0584,
Telemeister	0760	0065,0584,
Teletech	0762	0037,0065,0275,0365,0584,0584,0696,1065,1696,
Teleton	0763	0064,0191,0245,0377,0391,
Tensai	0767	0037,0065,0132,0133,0191,0245,0246,0275,0322,0399,0402,0653,0405,0743,1065,
Texet	0935	0037,0244,0245,0246,0402,0547,
Thompson	0771	0065,0137,0224,0226,0315,0363,0371,0377,0499,0584,0588,
Thorn	0772	0063,0065,0100,0101,0132,0136,0137,0218,0220,0221,0266,0300,0363,0402,0521,0527,0533,0540,0563,1038,1533,0101,0132,0136,0128,0220,0221,0363,0371,0389,0527,
Thorn-Ferguson	0936	0246,0310,0615,
Tomashi	0774	0037,0063,0064,0065,0098,0117,0137,0219,0223,0245,0253,0255,0269,0269,0271,0292,0440,0473,0508,0530,0536,0581,0646,0678,0742,0746,0764,1192,1221,1317,1536,1584,1684,1732,1963,1973,
Toshiba	0156	0065,0103,0205,0271,0374,0544,0584,
Triumph	0786	0065,0104,0398,0402,0446,0508,0514,0584,
Uher	0792	0793,0220,
Ultra	0793	0220,
Ultravox	0794	0065,0115,0191,0244,0275,0379,0402,0584,
Universum	0802	0065,0132,0133,0292,0374,0398,0563,0696,1038,1065,1191,1265,1465,1533,1696,
Vestel	0808	0065,0191,0245,0584,0696,1065,1191,1696,
Videosat	0937	0275,
Videotechnic	0938	0244,0402,0245,1783,1245,
Videoton	0939	0191,0384,0459,
Vision	0941	0065,0245,0292,0502,0516,0584,0763,0904,
Visorex	0818	0460,
Voxson	0820	0065,0104,0115,0191,0191,0206,0391,0446,0584,
Waltham	0821	0065,0137,0245,0245,0304,0315,0384,0446,0459,0584,1065,1696,
Watson	0822	0037,0065,0191,0246,0547,0584,0607,0696,1065,1276,1287,1465,1696,1936,
Watt Radio	0823	0191,0244,0377,0572,
Wega	0825	0064,0065,0115,0584,
White Westinghouse	0830	0065,0244,0584,0699,0825,1937,2015,
Yoko	0840	0037,0065,0245,0245,0246,0275,0292,0367,0398,0459,0584,0584,
Zanussi	0843	0245,0391,
Others		0088,1068,1130,1634,1732,1804,1849,2011,2060,2210



Correct disposal of this product

This marking shown on the product or its literature indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product or their local government office for details of where and how they can dispose this product for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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