TOPFIELD

TF 7100 HD PVRt

User Guide

High Definition

Digital Terrestrial Receiver

Personal Video Recorder

DVB
Digital Video Broadcasting

The lighting flash with arrowhead symbol, within 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, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

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Chapter 1

Introduction

The TF 7100 HD PVRt 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.

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. 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

The TF 7100 HD PVRt digital receiver has the following features:

- Can store up to 2000 television and radio services.

- You can create favourite lists of your favourite services.
- You can view information about the current television or radio programme.
- Has an electronic programme guide that provides an overview of scheduled programmes.
- You can record one service while you are currently watching another.
- The large storage capacity of the hard disk drive allows you to record up to about 125 hours of SD services and up to 40 hours of HD services —in case of 250 gigabytes— in excellent picture and sound quality.
- Time shift is a special technical feature available on the TF 7100 HD PVRt. You can pause the programme you are watching and resume it again at a later time. Then you can quickly go to whatever part of the current programme by fast forward or backward search.

1.2 Controlling the digital receiver

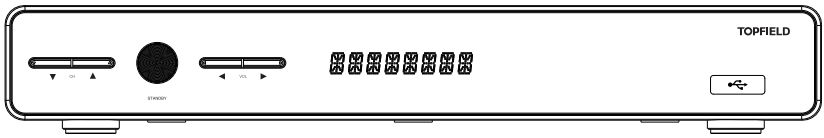
You can operate the digital receiver with the remote control and the buttons on the front panel.

NOTE

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

1.2.1 The front panel

The front panel of the digital receiver has buttons to control the digital receiver, and specific lamps and a display to indicate its status. The following indicates what they mean.



STANDBY button switches the digital receiver between standby mode and operation mode.

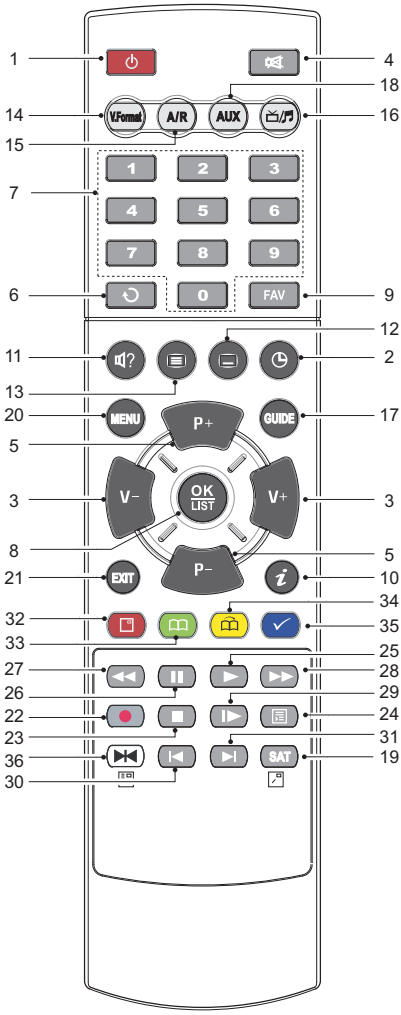
CHANNEL ▼, ▲ buttons switch to previous or next service. They are also used to navigate in menus and interactive screens.

VOLUME ◀, ▶ buttons decrease or increase the volume. They are also used to change values for menu options.

Front display displays the current time in standby mode, and displays the current service in operation mode.

There is a tiny flap on the bottom right-hand side that protects the USB port, to which you can connect USB devices like a memory stick or an external hard disk drive.

1.2.2 The remote control



① button switches the digital receiver between standby mode and operation mode.

② is used to set a sleep timer in 10 minute increments.

③ V−, V+ buttons decrease or increase the volume. They are also used to change values for menu options.

④ mutes the sound. Press again to switch it back on.

⑤ P−, P+ buttons switch to previous or next service. They are also used to navigate in menus and interactive screens.

⑥ switches between the current service and the previously viewed one.

⑦ Numeric buttons are used to enter a service number for service change or to specify values for menu options.

⑧ OK displays the services list. See § 6.2.1 for more details. It is also used to select a menu item.

⑨ FAV displays the favourite lists.

⑩ displays the service information box. It is also used to display more information about a programme.

⑪ is used to select an audio track and a sound mode, or

a video track of multifeed programme.

⑫ is used to select a subtitle track.

⑬ displays teletext.

⑭ V.Format changes video resolution. See § 4.1.2 for more details.

⑮ A/R changes aspect ratio. See § 4.1.1 for more details.

⑯ switches between television services and radio services.

⑰ GUIDE displays the electronic programme guide.

⑱ AUX is not used in this model.

⑲ SAT swaps the sub-picture with the main picture. See § 6.4 for more details. This button has other fucntions as well, depending on the context.

⑳ MENU displays the main menu. It is also used to return to the previous menu from a submenu.

㉑ EXIT is used to exit a menu or to hide on-screen info.

㉒ is used to start recording.

㉓ is used to stop playback, to stop recording, or to jump back to live television from time-shifted television.

㉔ is used to display the list of recorded programmes that are stored on the internal hard disk drive. See § 7.2 for more details.

㉕ resumes normal playback speed, or displays the progress bar for navigation on playback or time shift. To play a recorded programme, see button 24.

㉖ pauses live television or playback of a recorded programme.

㉗ is used to start reverse playback. Subsequent presses increase the rewind speed.

㉘ is used to start fast motion playback. Subsequent presses increase the playback speed.

㉙ is used to start slow motion playback. Subsequent presses change the playback speed.

㉚ changes the position of sub-picture counterclockwise. It is also used to jump back to beginnng of recording during a playback.

㉛ changes the position of sub-picture clockwise. It is also used to jump to end of recording during a playback.

㉜ is used to display, minify or hide the sub-picture. See § 6.4 for information about picture-in-picture.

㉝ is used to make a bookmark during playback or time shift.

㉞ is used to jump to next bookmark position or to jump forward 30 seconds.

㉟ is used to jump back for an instant replay. It is also used to edit a recording.

㊱ displays the services list for sub-picture. It is also used to specify a block for editing or for repeated playback.

The , , , and buttons have additional different functions per menu besides their own function. They will be guided by on-screen help.

Chapter 2

Setup

2.1 Unpacking

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

- Remote control unit
- Two batteries for the remote control (AAA 1.5 V)
- One power cord
- One loop cable to link the first tuner with the second tuner
- One component cable (RCA cable)
- One USB wireless module
- A copy of this user guide

NOTE

Accessories may vary according to your local area.

2.2 Safety precautions

Please read carefully the following safety precautions.

- The mains power must be 90 to 250 volts. Check it before connecting the digital receiver to the mains socket . For the power consumption of the digital receiver, refer to Table 2.1.
- The mains socket should be near the equipment. Do not run an extension lead to the unit.
- Do not expose the digital receiver to any moisture. The digital receiver is designed for use indoors only. Use dry cloth when cleaning the digital receiver.
- Place the digital receiver on a firm and level surface.
- Do not place the digital receiver close to heat emitting units or in direct sunlight, as this will impair cooling. Do not lay any objects such as magazines on the digital receiver. 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.
- Never open the digital receiver casing under any circumstances, or the warranty will be void.
- Refer all servicing to a qualified service technician.

Table 2.1: Power specifications

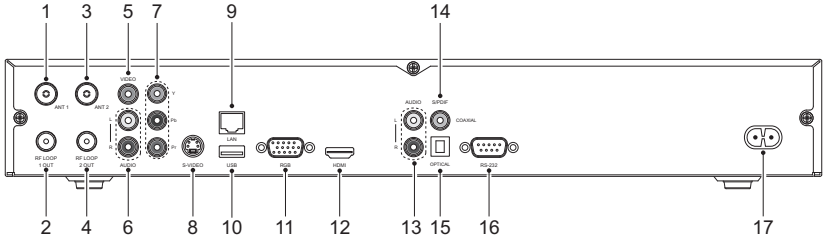
Input voltage	90 to 250 V AC, 50/60 Hz
Power consumption	32 W at maximum in operation
	8 W in standby

Table 2.2: Physical specifications

Size	430× 60× 265 mm
Weight	4.5 kg
Operating temperature	0 to 45 °C
Storage relative humidity	5 to 90 %

2.3 Rear panel connections

The TF 7100 HD PVRt has a wide range of connections on the back.



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

① ANT 1 Terrestrial broadcasting signal input socket for the first tuner.

② RF LOOP 1 OUT Terrestrial broadcasting signal output socket through the first tuner.

③ ANT 2 Terrestrial broadcasting signal input socket for the second tuner.

④ RF LOOP 2 OUT Terrestrial broadcasting signal output socket through the second tuner.

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 system. (white/red)

⑦ Y/Pb/Pr Component video output socket for the television set. (green/blue/red)

⑧ S-VIDEO Super video output socket for the television set.

⑨ LAN Local area network port.

⑩ USB USB port for firmware update or connection of USB devices.

⑪ RGB Component video output socket for the monitor.

⑫ HDMI Audio and video output socket for the high definition television set.

⑬ AUDIO L/R Stereo audio output socket for the television set or the audio system. (white/red)

⑭ S/PDIF COAXIAL Coaxial type of Dolby digital output socket for the audio system.

⑮ S/PDIF OPTICAL Optical type of Dolby digital output socket for the audio system.

⑯ RS-232 Serial port.

⑰ AC INPUT Power socket.

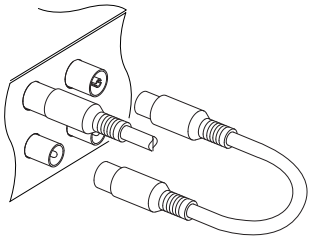
Table 2.3: Connectors specifications

HDMI	High definition video output
	Left & right audio output
	Dolby digital audio output
VIDEO	Composite video (CVBS) output
AUDIO	Left & right audio output
YPbPr	Component video (YUV) output
RGB	Component video (RGB) output
S-VIDEO	Super video (S-Video) output
S/PDIF	Dolby digital audio output
USB	2.0 Host

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 appliances. If you have any problem with your setup or need help, contact your dealer.

2.4.1 Connecting the antenna



Whatever sort of connection you have between the digital receiver and the television, you need to connect the digital receiver to your television antenna so that it can receive digital television services.

Connect the antenna cable to the ANT 1 connector on the back panel of the digital receiver.

Also, you must ensure that there is a connection to both the ANT 1 and ANT 2 connectors on your digital receiver, so that both tuners work properly.

Normally you do that by using a loop cable to link from the RF LOOP 1 OUT connector to the ANT 2 connector.

NOTE

However, if you are in a weak signal area, or are using a signal amplifier with more than one output, you may achieve better results by connecting a cable from the antenna or amplifier directly to the ANT 2 connector rather than using the loop cable.

If you have another digital receiver, or you want to still receive analogue channels on your television, link it from the RF LOOP 2 OUT connector.

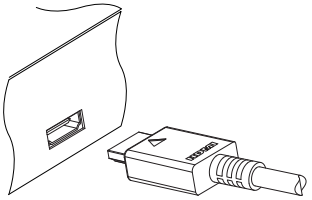
2.4.2 Connecting to your television set

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

1. HDMI connector (HDMI)
2. Component connector (YPbPr)
3. RGB connector (RGB)
4. S-Video connector (S-VIDEO)
5. Composite connector (VIDEO)

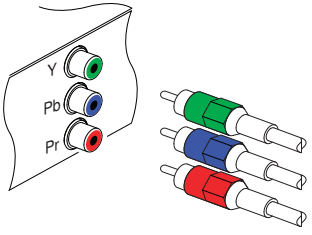
You should configure audio and video settings after connecting up the digital receiver. See § 4.1 for detailed description.

To use the HDMI connector



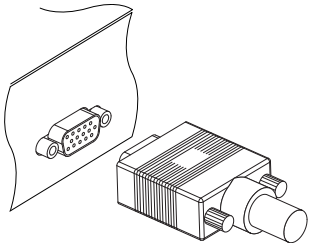
If you have a high definition television set, you should use a HDMI cable for best results. Plug one end of the cable into the HDMI socket on the digital receiver, and plug the other end into the matching socket on your television. In this case, you do not have to make audio connection because the HDMI connector can output stereo audio or Dolby digital audio.

To use the component video connector



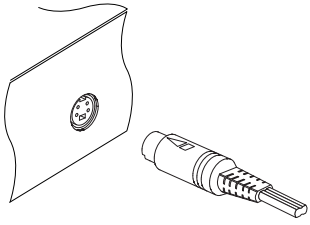
You need to obtain a component video cable (RCA cable) to use the component video connector. Plug one ends of the cable into the Y (green), Pb (blue) and Pr (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television.

To use the RGB video connector



You need to obtain a RGB cable (15 pin D-sub cable) to use the RGB connector. Plug one end of the cable into the RGB socket on the digital receiver, and plug the other end into the matching socket on your television.

To use the S-Video connector

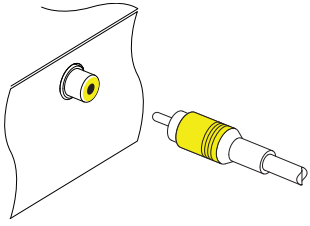


NOTE

You cannot view high definition video with the S-Video connector.

You need to obtain a S-Video cable to use the S-Video connector. Plug one end of the cable into the S-VIDEO socket on the digital receiver, and plug the other end into the matching socket on your television.

To use the composite video connector

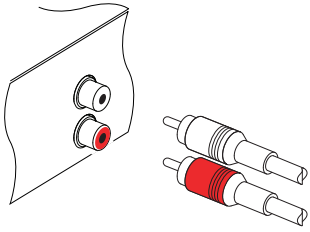


NOTE

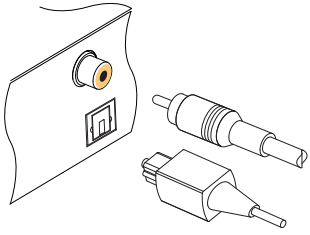
You cannot view high definition video with the composite video connector.

You need to obtain a composite video cable (RCA cable) to use the composite video connector. 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.

To make the audio connection



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



To enjoy Dolby digital audio, your television or audio system must be able to decode Dolby digital audio, and you need to obtain a S/PDIF cable. If you want to use the COAXIAL connector, prepare a coaxial S/PDIF cable (RCA cable); otherwise, to use the OPTICAL connector, prepare an optical S/PDIF cable. Plug one end of the cable into the S/PDIF socket on the digital receiver, and plug the other end into the matching socket on your audio system.

2.5 Inserting batteries in the remote control

To insert the batteries, 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.

If the digital receiver no longer reacts properly to remote control commands, the batteries may be flat. Be sure to remove used batteries. The manufacturer accepts no liability for the damage resulting from leaking batteries.

NOTE

Batteries, including those which contain no heavy metals, may not be disposed of with household waste. Please dispose of

used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

2.6 Switching on for the first time

Now that you have your digital receiver connected, you should plug it into a mains socket. Ensure that your television set is turned on, so that you will be able to see the display from the digital receiver.

2.6.1 Powering on and checking picture

Now, press the button in top left corner on the remote control. After about 10 seconds you should see a picture showing a menu.

If the picture is good, you can skip to § 3.1 to search for the available television and radio services.

Otherwise, try pressing the V.Format button on the remote control. If after several tries you still get no picture, continue pressing V.Format button until 576I is indicated by the small LCD display on the front panel of the digital receiver. Now leave on this setting until you establish a picture.

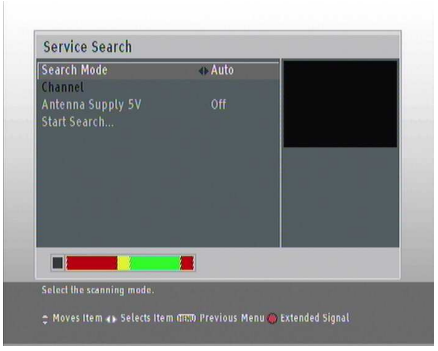
Check that the television is set to the correct input. You might need to temporarily connect one of the other available video connectors (other than HDMI connector) to your television set so that you can see the on-screen menus in order to configure the video settings. Refer to § 4.1 to configure the video settings.

Chapter 3

Service Search

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

3.1 Searching broadcasting services



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

If you have an antenna booster, you should set the Antenna Supply 5V option to On to supply power to it.

You should set the Search Mode option to Auto for the first time after connecting up the digital receiver; then the digital receiver will search for all available services.

You may choose to only search for services of a specific transponder because more than one service are provided via each

transponder. To do that, set the Search Mode option to Manual, and then at the Channel option select your desired transponder. The number ranges from 6 to 12 in VHF and 28 to 69 in UHF.

To start service search, select the Start Search item; then a list box appears, in which found services will be listed. When it has completed, press the OK button to save found services. To stop at any time or to exit without saving, press the EXIT button.

3.2 Resetting 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. To do that, select the Installation > Factory Setting menu, and then you get asked for confirmation. If you select Yes, service entries, favourite entries and timer events will all be deleted, and preference options will be reset to the manufacturer's factory settings.

NOTE

A factory reset will not delete any recorded programmes.

Chapter 4

Preference Settings

4.1 Video and audio settings

You have to configure the video and audio settings appropriately to your television set and other appliances.

Select the System Setting > A/V Output Setting menu. You should see a screen like the left figure.

4.1.1 Television aspect ratio

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

Otherwise, if you have a normal-screen television, set the TV Aspect Ratio option to 4:3.

You cannot fully enjoy wide-screen programmes with your normal-screen television as the above figures show. The left figure shows a normal picture displayed in the normal screen. To watch wide-screen programmes in the shape like the centre figure, set the 16:9 Display Format option to Letter Box. Wide-screen pictures then will be reduced to fit to the width of the normal screen. Otherwise, to watch them in the shape like the right figure, set it to Center extract. Wide-screen pictures then will be cut out on the left and right sides equally to fit to the width of the normal screen.

4.1.2 High definition television

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 quality you can enjoy. However, if your television set does not support high definition, you cannot enjoy high definition quality picture.

The Video Format setting controls the video format for the HDMI, component and RGB output connectors. It is recommended that you set it to the highest resolution your television can display. If you know your television's native screen resolution, you may achieve a better picture by setting it to that resolution, for example, 720 for a 1280 $\times$ 720 screen. The digital receiver will then convert all video output to the selected setting. The Auto setting tells the digital receiver to output all video as it is without any resolution conversion.

While watching television you can change the resolution with the V.Format button.

Though the Auto setting is desirable, some television sets are not able to display a certian resolution. The Preferred Video Format option allows an exceptional resolution conversion against such a case. For example, if your television set cannot display 576i video, you should set this option to 576I to 576P; digital receiver will then only convert 576i video into 576p video.

NOTE

You can enjoy only standard definition video with the following connectors:

- Composite video connector (VIDEO)
- S-Video connector (S-VIDEO)

4.1.3 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 button. See § 6.2.4 for detailed description.

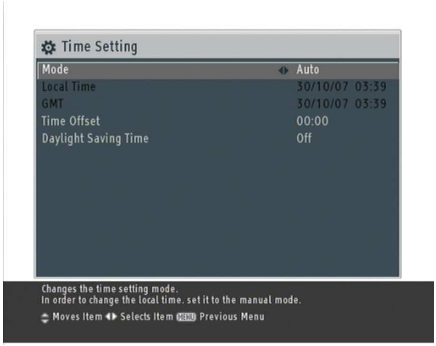
The digital receiver can output two types of digital audio signals via the S/PDIF connector. One is an encoded signal, and the other is a decoded signal. If your digital audio system does not have a Dolby Digital decoder, you have to set the Digital Output (Dolby Digital Only) option to PCM. Otherwise, set it to Bitstream.

NOTE

If the service you are currently watching does not provide Dolby digital, you cannot watch the programme with Dolby sound even though you set the Digital Output option to Bitstream.

4.2 Local time setting

You should set your local time for timer events.



Select the System Setting > Time Setting menu. You should see a screen like the left figure.

You can set the clock manually or use the time signal, Greenwich Mean Time (GMT), carried as part of the digital television broadcast.

To use Greenwich Mean Time, take the following steps:

1. Set the Mode option to Auto; then the Time Offset and Daylight Saving Time options become enabled.
2. Set the Time 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 Local Time option.
4. If daylight saving time is observed in your state 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.

To set the local time yourself, set the Mode option to Manual and enter your local time to the Local Time option with the numeric buttons. The time format is *day/month/year 24-hour:minute*.

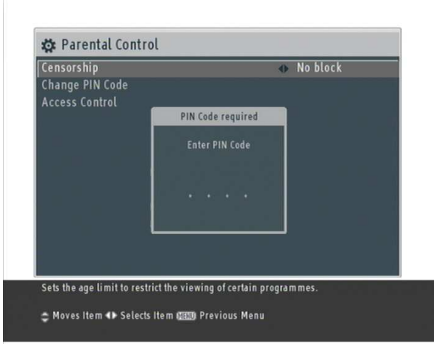
Table 4.1: Time offset table

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
GMT − 03:30	Newfoundland
GMT − 03:00	Brazil, Georgetown, Buenos Aries
GMT − 02:00	Mid-Atlantic
GMT − 01:00	Azores, Cape Verde Islands
GMT	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

4.3 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 § 6.2.3.

You can prevent your children from watching specific programmes by specifying a programme classification.



Select the System Setting > 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 '0000'.

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

No block restricts no prorgramme.

Total block restricts every programme, even those with no programme classification.

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 Audiance*, the content of which is strong.

R restricts to R rated programmes. R stands for Restricted to adults aged 18 years or over, the content of which is very strong.

AV restricts to AV rated programmes. AV stands for *Adult Viewing*, the content of which is deep hardcore.

NOTE

If a programme does not have any programme classification

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 to override.

To change the number, select the Change PIN Code menu; then an input box appears. You have to enter a desired number twice for confirmation.

You can also restrict uses of some menus. Selecting the Access Control menu displays a list of menus that you can lock. If the Time Setting item is set to Locked, you have to enter the personal identification number when accessing the Time Setting menu. If you enter a wrong number, you cannot use the menu. To release a shut item, set it to Unlocked.

4.4 Adjusting the On-Screen Display

When a display such as the information box is on screen, you can view pictures shaded underneath by adjusting the transparency level of the On-Screen Display (OSD). Select the System Setting menu and set the OSD Transparency option to your preference. Its available range is from 0 to 50 percent. Normally, this option does not apply to menus.

However, if you wish to make even menus transparent, set the OSD Background Transparency option to Enable.

With the option OSD Transition Fade set to Enable, a menu appears fading in and disappears fading out.

You can adjust the display time of the information box. For the information box, see § 6.2.3. To adjust its display time, select the System Setting menu and set the Info Box Display Time option as you desire. Its available range is from 1 to 30 seconds. If you set this option to No Info box, the information box will not be displayed when you switch services. However, pressing the button will display the information box. If you

set this option to Never Hide, the information box will always be displayed.

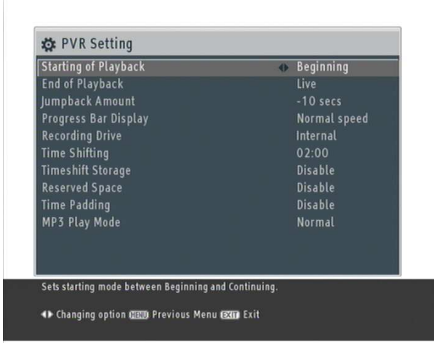
NOTE

You can always hide the information box or other on-screen information manually by pressing the Exit button.

In addition, you can raise or lower the position of the information box. Select the System Setting menu and set the Info Box Position option as you desire. Its available range is from -20 to $+20$ line.

If you feel the front display of the digital receiver is too bright, you can lower its brightness. Select the System Setting menu and set the VFD Brightness option to the level that you feel comfortable with.

4.5 Preferences for recording and playback



There are preference options related to recording and playback. Select System Setting > PVR Setting. You should see a screen like the left figure.

4.5.1 On a playback

Sometimes you would not watch a recorded programme to the end. When you watch it later, you can do so from the beginning or from the last point you have watched. To watch from the beginning, set the Starting of playback option to Beginning; otherwise set it to Continuing.

When a playback of a recording comes to the end, you can have it replayed from the beginning by setting the End of playback option to Replay. Otherwise to just return to live television, set it to Live.

The button is used to jump back for an instant replay on a playback or time-shift. You can adjust the time of jump-back as you desire by changing the Jumpback Amount option.

4.5.2 Progress bar

During a playback or time shift, pressing the button displays the progress bar which shows its rate of progress. With the option Progress bar display you can set the progress bar to hide in one of three ways:

Normal speed allows the progress bar to disappear in five seconds, but only if on normal-speed playback. It does not disappear on slow playback or fast playback until after you resume normal-speed playback by pressing the button again.

Every time allows the progress bar to always disappear in five seconds.

Never hiding allows the progress bar to disappear only if commanded. When you press the button again or the EXIT button.

4.5.3 Recording storage

You can choose to record to the built-in hard disk drive or to an external hard disk drive connected to a USB port on the digital receiver. If you want to record a programme to the external hard disk drive, you should set the Recording drive option to External; otherwise set it to Internal.

NOTE

The external hard disk drive must be formatted by the digital receiver before use. See § 7.6.2 for detailed description.

If you want to preserve the empty space of the hard disk drive to some extent at all times for scheduled recordings, set the Reserved Space option to anything other than Disable. With this option enabled, the digital receiver will delete the oldest files. In the recorded programme list, the files about to be deleted are displayed in orange or yellow. Orange-colored files are older than yellow-colored ones. See § 7.2 for the recorded programme list.

Sometimes a television programme begins or ends later than expected so that the timer recording fails to capture all of the programme. To prepare against such situation, you had better set the Time Padding option to anything other than Disable. If you set it to 15 mins, scheduled programmes will be recorded 15 minutes longer at the end than the duration you have set.

4.5.4 To turn on the time shift feature

Time shift means that the most recent hours of the television service you are watching gets saved temporarily on the hard disk of the digital receiver. When enabled, you can reverse and pause live television as if playing back a recording. To enable this feature, set the Time Shifting option to anything other than Disable. If you set it to 3 Hours, you can go back 3 hours at most. See § 6.5 for how to use this feature.

If you wish to save time-shifted services not temporarily but permanently, set the Timeshift Storage option to Enable. See § 7.2 about how to view the list of time-shifted services.

4.5.5 To play back MP3 files randomly

You can play back MP3 files continuously. To play them randomly, you should set the MP3 Play Mode option to Random. See § 7.5 for more details.

Chapter 5

Listing Services

5.1 Editing the favourite list

You can make your own favourite services list. In fact, you can define multiple favourite services lists, each being a 'group' of chosen services.

Select the Organizing Favorites menu. You should see a screen like the left figure.

There are three columns:

- Group list (left)
- Favourite list (centre)
- Services list (right)

The services list contains all available services, whereas the favourite list contains only chosen services that have been added to the highlighted group. As you move the highlight bar up or down on the group list, favourite services belonging to the highlighted group get shown in the favourite list.

You can add up to 30 groups. To add a group, select the NEW option in the group list; then the on-screen keyboard appears. See § 5.2 for how to use the on-screen keyboard.

To rename a group, put the highlight bar on the group entry you want and press the button; then the on-screen keyboard appears. See § 5.2 for how to use the on-screen keyboard.

To delete a group, put the highlight bar on the group entry you want and press the button; then a message box appears asking you for confirmation. If you select Yes, it will be deleted.

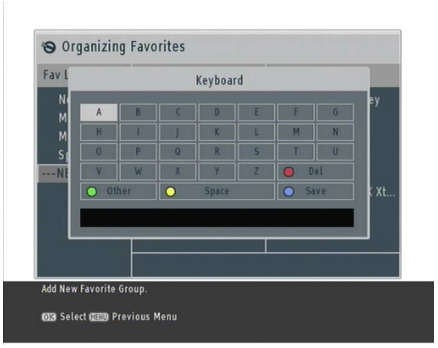
You can add a favourite service to a group by taking the following steps:

1. Put the highlight bar on a desired group entry in the group list and press the OK button to select it. The highlight bar then moves to the services list.
2. To add a service to the selected group, put the highlight bar on a desired service entry and press the OK button. The selected service entry gets added to the favourite list. Repeat this step to add more entries.
3. Press the button and the highlight bar gets moved to the favourite list. You can delete a favourite entry with the OK button.
4. To select another group, press the button again. By pressing the button, the highlight bar gets moved to each column.

To add radio services, press the button; then radio service entries get listed in the services list. To recall the television services list after adding radio services, press the button again.

With your favourite services list, you can select your favourite services more easily. Refer to § 6.2.2 for detailed description.

5.2 How to use on-screen keyboard



You can move the highlight key horizontally with the V− and V+ buttons and vertically with the P+ and P− buttons. Pressing the OK button on a key enters its letter in the input line. To type a space, select the Space key or press the . To type lower case letters or numerals, select the Other key or press the .

To delete a letter, put the cursor to the right of the desired letter on the input line and then select the Del key or press the . You must select the Save key or press the to complete naming; otherwise if you press the EXIT button, it will not be named.

Chapter 6

Daily Usage

6.1 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 button. Press it again to restore the sound to previous level.

6.2 Watching television

To change services, press the P+ or P− button. Pressing the 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.

6.2.1 The services list

To view the services list, press the OK button.

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

- Service number and name
- Transponder information

To select a desired service, put the highlight bar on its entry with the P+ or P− button and press the OK button; then it will be presented. Pressing the V− or V+ 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.

Pressing the button displays the additional options, with which you can do the following:

- By setting the Show Provider option to On, you can view service entries by groups of broadcasters.
- To change the name of the highlighted service, select the Rename option; then the on-screen keyboard appears, with which you can enter a new name. See § 5.2 for how to use the on-screen keyboard.
- You can prevent other family members from watching the highlighted service by setting the Lock option to Locked. You have to enter your personal identification number to watch or unlock it.
- To add the highlighted service into a favourite group, select the Add to Favorite option; then the favourite groups

will be displayed. Put the highlight bar on a desired group and press the OK button.

6.2.2 The favourite services list

You can select a service to watch on a favourite list as well as on the services list.

To display the favourite lists, press the FAV button. You should see a screen like the left figure. As you move the highlight bar up or down on the favourite group list at the left box, favourite services belonging to the highlighted group are listed on the right box.

For how to edit the favourite lists, refer to § 5.1.

To select a favourite service, put the hightlight bar on a desired group and press the V+ button; a highlight bar appears on its favourite services list. Once you select a desired service with the OK button, it will be presented. Otherwise, to select other group, press the V− button.

After you have selected a favourite service, if you then switch to another service using the P+ or P− button, it will be also another favourite service of the selected group. The digital receiver will remind you what group you have selected by displaying its name on the right side of the information box whenever you switch services. If you wish to get out of the current group, select the All services group on the favourite group list.

6.2.3 Viewing programme information

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

- Service number and name
- Signal level and quality
- Resolution of broadcast picture
- Name of selected favourite group
- Programme name
- Programme summary
- Broadcasting time
- Programme classification symbol
- Current time

In addition, you might see the following symbols:

- Subtitle symbol (▭) if subtitle tracks are provided on the current programme.
- Teletext symbol (☰) if teletext pages are provided on the current service.
- Dolby symbol (◧◨) if a Dolby audio track is provided on the current programme.

When you are not using time shift, if the electronic programme guide is provided on the current service, you can see the information about the current and next programmes with the V− or V+ button. To adjust the sound volume in this case, hold down the V− or V+ button until the sound bar appears and reaches your desired level.

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

6.2.4 Selecting audio tracks

Some programmes are provided with audio tacks in one or more languages. Pressing the button displays available audio tracks. Once you select an audio track, it will be sounded. In addition, you can enjoy audio tracks in four sound modes: Stereo, Mono, Left or Right. However, if a multifeed programme is provided at the moment, video tracks will be displayed. In this case, you have to press the button once more to select an audio track.

6.2.5 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 button displays available subtitle tracks. Once you select a subtitle track, it will be displayed.

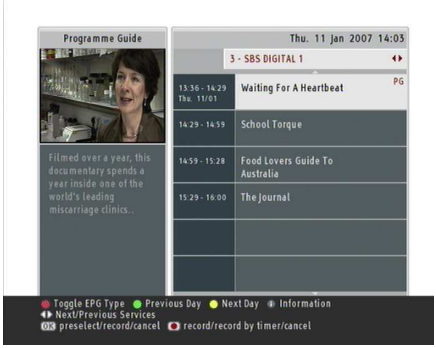
6.2.6 Viewing teletext

On some services, such information as weather reports, news or stock quotations is provided by means of teletext. If the current service provides teletext, the teletext symbol ( ) will be displayed on the information box. Press the button to view teletext pages.

Select a page to view by entering its page number with the numeric buttons. You can zoom into a teletext page with the button, and adjust its transparency level with the button. To clear the teletext screen, press the EXIT button.

6.3 Viewing electronic programme guide

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



Pressing the GUIDE button displays 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 your choice with the P+ or P− button and press the i button. To switch to another service, press the V− or V+ button. You can travel over previous days with the button, and can travel over next days with the button.

To see the programme guide for radio broadcasts, press the button. To switch it back, press the button again.

Pressing the button displays the programme guide in the form of spreadsheet. To switch it back, press the button again.

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

NOTE

The provider of each service might only transmit information about the current and next programmes. However, a full week programme guide can be obtained with a subscription from a provider such as IceTV in Australia http://www.icetv.com.au. This lets you schedule recordings by simply clicking on the name of the programme. For instructions on setting up IceTV, please visit http://www.icetv.com.au/topfield.

To enable to use the IceTV programme guide, you should set the EPG Type option of the System Setting menu to IceTV.

To activate the IceTV programme guide on your digital receiver, you sholud take the following steps:

1. Download a programme guide file from `http://www.icetv.com.au/topfield` into the memory stick which is inserted into your computer.

   NOTE
   The file needs to be placed in a sub-folder called ice.

2. Pull out the memory stick and insert it into a USB port on the digital receiver.
3. Press the GUIDE button to display the programme guide.
4. Press the ⏭ button, and the list of programme guide files in the memory stick is displayed.
5. Select your desired file, and it will be loaded into the digital receiver.

6.4 Using picture in picture

You can watch two services at the same time with one of them presented in a sub-screen. We call this feature picture-in-picture.

The instructions on how to use the picture-in-picture feature are as follows:

1. Press the ⧉ button to display a sub-screen, on which another service will be presented.

2. To display the services list for the sub-screen, press the ⏭ button.

   NOTE
   When a recording is in progress, the available services in the services list may be limited.

3. Pressing the ⏮ button moves the sub-screen counter-clockwise, and pressing the ⏭ button moves it clockwise.

4. Pressing the SAT button swaps the main picture with the sub-picture. Even when you play back a recording, you can watch a live programme in the sub-screen. However, you cannot swap the pictures in that case.

5. Pressing the ⧉ button once more minifies the sub-screen, and pressing it once again hides the sub-screen.

6.5 Using time shift

You can pause and resume a live TV 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 it and resume it a short time later without losing any of it.

When you do this you are no longer watching the live programme, instead you are watching a delayed presentation of it. This is called time shifted television. Then, you can skip commercials until you catch up to the live broadcast. In order to use the time shift feature, you should set the Time Shifting option anything other than Disable. See § 4.5.4.

When enabled, the digital receiver will keep as much as thirty minutes, or greater as set by the Time Shifting option, recording buffer of current service by utilizing the hard disk drive storage. The buffer will reset each time you change to another service.

With time shift enabled, the following operations are possible:

- You can navigate using the progress bar, refer to § 7.3.1.
- You can jump forward 30 seconds at a time by pressing the button.
- You can jump backwards by pressing the button. The time-span of which is controlled by Jump back Amount option. See § 4.5 for that option.
- You can change playback speed. For slow motion see § 7.3.2. For fast motion see § 7.3.3.
- 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 screen. A value of −00:02:00 means two minutes behind live programme.
- To end time shift, press the button. The live programme will be presented.

Chapter 7

Recording and Playing

The TF 7100 HD PVRt digital receiver has two tuners so that you can enjoy the following:

- You can watch two services at the same time using the picture-in-picture feature. See § 6.4 for the picture-in-picture feature.
- You can record one service while watching another.
- You can record two different services while watching another–only if two of the services are provided through the same transponder.
- You can even record two different services while watching two other different services—only if two or more services are provided by same transponder and the other service(s) are provided in another same transponder.
- You can record two different services while playing back a previously recorded programme and even start playing back a recording while it is being recorded. See § 7.3 for playing back a recording.

7.1 Recording a programme

Once recording has started, a symbol like the left figure will be displayed at the top right of the screen for a few seconds. When you are watching a service different from the service being recorded, you can view a number on the centre of the symbol, which indicates the order that the recording is started.

To record two programs simultaneously, two tuners are allocated for the recording. Therefore, you can only change to a limited number of services while the two programs are being recorded.

CAUTION

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

When a programme is being recorded onto on external hard disk drive, you must not disconnect it. Arbitrary disconnecting may cause the digital receiver to be down and cause damage to the recording file.

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

NOTE

If a recording lasts less than one minute, the digital receiver will not save the recording.

7.1.1 Instant recording

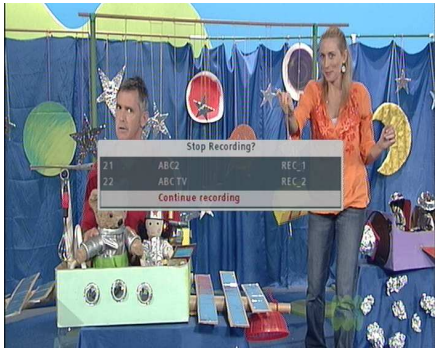
To instantly record the programme you are watching at present, press the button.

Once a recording is started, it is put on the recorded programme list even though it is not finished yet. The recording file is named after its service name with a suffix of a number.

To view the recorded programme list, press the button or alternatively select the File List menu.

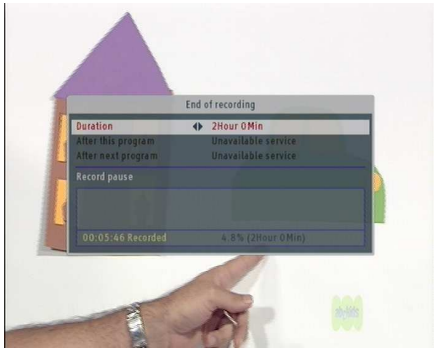
See § 7.2 for the recorded programme list.

While a recording is going on, you can watch or record another service. To additionally record another service, switch to the service you want to record, and press the .



To stop recording, press the button; then a box like the left figure appears, which shows programmes currently being recorded. If you select one, its recording will stop.

Pressing the button will not pause the current recording like it does with a video cassette 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. However, it is still possible to pause a recording.



Once a recording is started, pressing the button displays a menu like the left figure, in which you can set the recording duration, or pause the recording. To specify an arbitrary recording duration, set the Duration option as you desire with the V− and V+ buttons and press the OK button; the recording will end at the specified time.

If the information about the next programme is provided by

the electronic programme guide, the After this program and After next program options will be available. Once the After this program option is selected, the current recording will stop when the current programme is scheduled to end. Likewise, once the After next program option is selected, the current recording will stop when the next programme is scheduled to end.

Selecting the Record pause option pauses recording. When you press the ● button again, you will see this option is changed to Record continue. To resume recording, select it.

7.1.2 Timer recording

You can set a service to be recorded at a specific time. Even if the digital receiver is in standby mode, it will switch into operation 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, control will then pass to you, that is you become the operator. In such case, the digital receiver will not automatically switch back into standby mode.

To manually input a timer recording, select the Timer Setting menu; then the timer list will be displayed.

To add a new timer event, press the ■ button, and a box like the left figure appears. Take the following steps:

1. Set the Record option to On to make a recording. If this option is set to Off, the digital receiver will turn on at the

specified time but not record; instead, you may record with your video cassette recorder or suchlike in this case.

2. If you want a radio programme, set the Type option to Radio; otherwise, set it to TV.

3. Set the Service 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. There are five timer modes:

   One Time means literally 'one time'.

   Every Day means literally 'every day'.

   Every Weekend means 'Saturday and Sunday every week'.

   Weekly means 'one day every week'.

   Every Weekday means 'from Monday to Friday every week'.

   If your favourite programme is broadcast at weekends and you wish to record every episode of the programme, set the Mode option to Every Weekend.

5. Set the Date option to a desired date, on which the digital receiver will turn on. The date format is *day/month/year-day of the week*.

   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. Pressing the OK button on the File Name option displays the on-screen keyboard, with which you can specify a file name for the timer recording. If you do not specify anything, it will be named after the service name. See § 5.2 for how to use the on-screen keyboard.

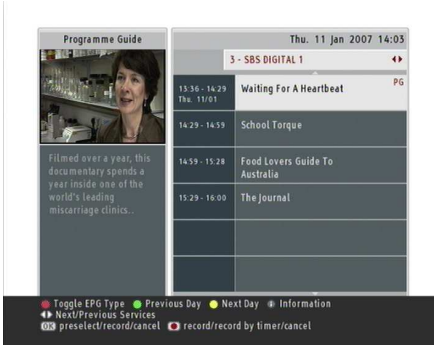
8. To set a timer recording with the above settings, select the OK item; otherwise, it will not be saved and will not occur.

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 📖 button; then you get asked for confirmation. If you select 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 GUIDE button to display the electronic programme guide.
2. Select a service you want to record with the V− and V+ buttons.
3. Select a programme you want to record with the P+ and P− buttons.
4. To make a timer event without recording, press the OK button; the letter **P** is displayed. To make a timer event

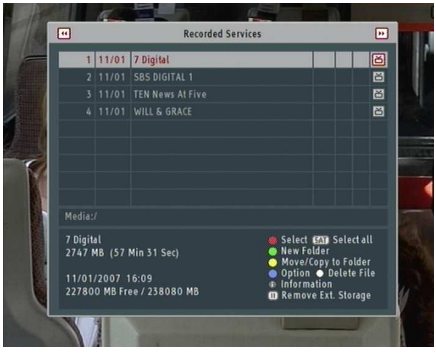
with recording, press it once more or alternatively press the ● button; then the letter **R** is displayed.

5. This timer event is placed on the timer list. To change its settings, press the ● button to show a box in which you can edit. Refer to § 7.1.2 for detailed description.

6. 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 built-in hard disk drive of the digital receiver. You can select a recording to play back from the recorded programme list.



Select the File List 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, playing duration, file size and so on.

You can use an external storage such as external hard disk drive or a memory stick, thus you will view four lists as follows:

Recorded Services of the internal hard disk drive.

MP3 of the internal hard disk drive.

Recorded Services (External Storage) of an external hard disk drive.

MP3 (External Storage) of a memory stick. Here you can alternatively use an external hard disk drive.

To turn to another list, use the ◀◀ or ▶▶ button.

You can play, move, delete, rename and lock a recording file. You can also sort the recording files by file name, playing duration 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. If you select Yes, it will be deleted.

It is possible to delete multiple files in one operation by first selecting each file with the ⊡ button.

7.2.2 To sort recordings

To sort the recordings, perform the following steps:

1. Press the ✓ button to display the additional options.
2. Set the Sorting option to Alphabetic, Time or Size as you want.
3. Press the EXIT button.
4. They are sorted by the specified option.

7.2.3 To lock a recording

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

1. Put the highlight bar on a desired recording.
2. Press the ✓ button to display the 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.

NOTE

Locking a recording can also be used to stop it being deleted, either manually or automatically–if you have Reserved Space enabled.

7.2.4 To rename a recording

To change the name of a recording, perform the following steps:

1. Put the highlight bar on a desired recording.
2. Press the ✓ button to display the additional options.
3. Select the Rename option, and the on-screen keyboard appears. Change the name and save it. See § 5.2 for how to use the on-screen keyboard.

7.2.5 To make a new folder

To make a new folder, press the 📖 button; then a new folder named GROUP # is created. You can change its name in the same manner as renaming a recording. See above.

7.2.6 To move or copy recordings to another folder

To move a recording to another folder, Put the highlight bar on a desired recording and press the 📖 button; then the folders are listed, including the external hard disk drive if it is connected to the digital receiver. For copy operation, press the 📖 button once more. Once you choose a folder, the recording is copied or moved to it.

It is possible to move or copy multiple files in one operation by first selecting each file with the ▢ button.

7.3 Playing back a recording

Once playback has started, a symbol like the left figure will be displayed at the top right of the screen for a few seconds. When a programme is recorded, its additional contents such as audio tracks or teletext 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 File List menu or alternatively press the button to display the list of recorded programmes.
2. Put the highlight bar on a desired recording.
3. Press the OK button to start playback.
4. To stop playback, press the button.

During a 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, playing duration, programme information, and so on.
- To pause playback, press the button. To resume it, press the button.
- To bookmark a scene, press the button. Refer to § 7.3.4.
- For slow motion, press the button. Refer to § 7.3.2.
- For fast motion, press or button. Refer to § 7.3.3.
- To resume normal speed playback, press the button.
- To display the progress bar, press the button; to hide it, press the button again. For usage refer to § 7.3.1

NOTE

When a recording from the external hard disk drive is being played back, you must not disconnect it from the digital receiver. Arbitrary disconnecting may cause the digital receiver to be down and cause damage to the recording file.

7.3.1 To navigate using the progress bar

First press the ▶ button to display the progress bar, then:

- To go forward, hold down the V+ button; to go backward, hold down the V− button.
- To bookmark a position, refer to § 7.3.4.
- If there are no bookmarks, you can jump forward 30 seconds at a time by pressing the ⏩ button.
- You can jump backwards by pressing the ✓ button. The time-span of which is controlled by Jump back Amount option. See § 4.5 for that option.
- To jump to start of recording, press the ⏮ button.
- To jump to end of recording, press the ⏭ button.
- To hide the progress bar, press the ▶ button again.

7.3.2 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 3 steps: 1/2, 1/4 and 1/8 times. To resume normal speed, press the ▶ button.

7.3.3 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 in

increments from 2 times up to 1500 times. 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 from 2 times to 1500 times. To resume normal speed, press the ▶ button.

7.3.4 To make a bookmark

You can mark favourite parts of a recording by creating bookmarks, and then jump to them. You can have up to 64 bookmarks. Bookmarks are stored with the recording so that you can use them again afterwards. To make bookmarks, perform the following steps during playback:

1. Press the ▶ button to display the progress bar.
2. To add a bookmark, press the 📖 button at a desired scene; then you will see a small dot appear above the progress bar like in the picture above.
3. To jump forward to next bookmark, press the 📖 button.
4. To jump to first bookmark, press the ⏮ button then the 📖 button.
5. To delete a bookmark, jump to it and then press the 📖 button.

7.3.5 To play back a recording repeatedly

You can play back a recording repeatedly both in whole and in part.

To play back in whole, press the ⏭ button when the progress bar is hidden; then the repetition symbol (🔁) is displayed on the information box. To cancel it, press the ⏭ button again.

To play back in part, perform the following steps:

1. Press the ▶ button to display the progress bar.
2. Move to the beginning scene of the part you want to play repeatedly by using the V− or V+ button.
3. Press the ⏭ button, then the pointer becomes cyan.
4. Move to the end scene; the part is marked in bright green.
5. Press the ⏭ button again, then the part turns green, and repeated playback starts.
6. To cancel it, press the ⏭ button when the progress bar is displayed.

7.3.6 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 File List 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 OK button to start playback.
4. The selected recordings are played in the sequence that they are numbered.
5. To jump to start of next selected recording, press the ▶ button to display the progress bar, then press the ⏭ button.

7.4 Editing a recording

You can cut out or save a part such as a commercial from a recording by performing the following steps:

1. Press the ▶ button to display the progress bar during a playback.
2. Move to the beginning scene of the part you want to edit by holding down the V− or V+ button.
3. Press the ⏭ button.
4. Move to the end scene.
5. Press the ✓ button, then the edit options are displayed
6. If you choose the Remove option, it will be removed from the original recording and discarded.
7. If you choose the Save option, the cut will be saved in a new file which is named after the original recording with a suffix of '(SAVE)' and a number.

7.5 MP3 playback

You can enjoy music or audio books in MP3 format from a memory stick with the digital receiver.

NOTE

During an MP3 playback, you can watch television but cannot use the picture-in-picture feature.
Some MP3 files decoded in nonstandard format may make popping noises.

To begin with, you have to make a folder named **audios** in lower case in your memory stick because the digital receiver will find MP3 files only in that folder. Then copy MP3 files to that folder from your personal computer or suchlike.

Now, insert the memory stick into a USB port on the digital receiver, and then perform the following steps:

1. Press the button and then the or button to display the list of MP3 files within the memory stick.
2. Put the highlight bar on a desired file; if you want to play several files, select them with the button. You can also use SAT button to select all files.
3. Press the OK button to start playback.
4. If you press the button, then all files will be played continuously in sequence. To cancel it, press the button again.
5. To stop playback, press the button.

To play back MP3 files randomly instead of in sequence, set the PVR Setting > MP3 Play Mode option to Random.

7.6 Formatting the hard disk drive

7.6.1 Internal hard disk drive

You can delete all contents stored in the hard disk drive by formatting it. If you wish to do that, select the Installation > Format Hard Disk menu, then you are asked for confirmation. If you select Yes, formatting will start.

CAUTION

Formatting the hard disk will delete all files permanently.

NOTE

If you are to replace the internal hard disk drive with new one, you must format it before use because the digital receiver has its own file system which is different from any of personal computers. You can neither record nor use time shift with an unformatted hard disk drive.

If you are having problems with recording or playback, it is recommended to do a hard disk format before requesting service.

7.6.2 External hard disk drive

If you are to use an external hard disk drive for the first time by connecting it to a USB port on the digital receiver, you must format it before use.

Select the Installation > Format External Storage menu, then you are asked for confirmation. If you select Yes, formatting will start.

CAUTION

Formatting the hard disk will delete all files permanently.

NOTE

The digital receiver will format the external hard disk drive in the *ext2* file system. If you have it connected to your *Windows* computer, you cannot read it straightforwardly without a utility program such as *Ext2Fsd*.

As often as not you might have the external hard disk drive damaged by a power failure or unintentional disconnection. In such a case, you can use the Installation > Repair External Storage menu to recover the external hard disk drive from damage.

Chapter 8

Accessing the digital receiver via Networking

NOTE

The following section describes complex functions that should only be used by owners with advanced computer knowledge.

TF 7100 HD PVRt provides an FTP service. You can download recording files to your computer via the FTP service. Here you need a router, which will connect the digital receiver to your computer or the Internet. To use the network features of the digital receiver, you should take the following steps:

1. Configuring your router for the digital receiver.
2. Configuring the network settings on the digital receiver.
3. Accessing the FTP Server of the digital receiver.

NOTE

The FTP server of the digital receiver doesn't work in standby mode. So it must be powered up all the time if you wish to use the web service at any time.

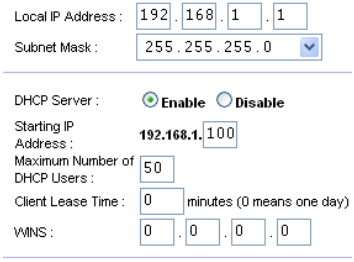
8.1 Configuring the router

In this section, the setup program of *WRT54G*, which is a router manufactured by *Linksys*, will be referred to as an example of how to configure the router for network access.

NOTE

For detailed description about how to set up the router, refer to the manual of your router.

Once your router is powered up, a local area network gets created whether or not it is connected to the Internet.

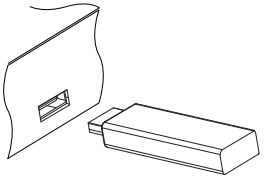


You can let the router automatically assign a dynamic IP address to the computers or devices connected to the network by enabling the DHCP server of the router. In this case, you can access the digital receiver with the IP address which is assigned to the digital receiver by the router.

If the digital receiver reboots, a new dynamic IP address will be assigned to it. You had better assign a static IP address to the digital receiver to avoid this inconvenience. For how to assign a static IP address, refer to the manual of your router. For how to specify a static IP address on the digital receiver, see § 8.2.

8.2 Configuring the network settings on the digital receiver

Make sure that the digital receiver is connected to your router before configuring the network settings on the digital receiver. You may make either a wired or wireless connection as you are pleased.



You will need to obtain a network cable to use wired connection. Plug one end of the cable into the LAN port on the digital receiver, and plug the other end into an available port of the router.

If you will use wireless connection, plug the wireless module into the USB port on the back of the digital receiver.

NOTE

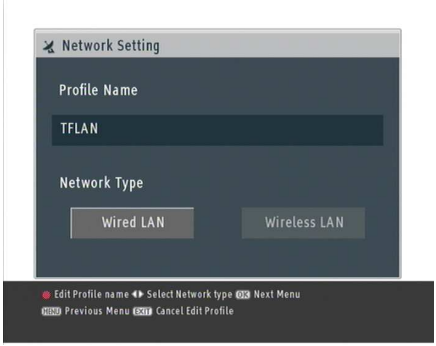
You cannot use both wired and wireless connections at the same time.

8.2.1 Making a network profile

You should make at least a network profile with which you can connect the digital receiver to your home network.

Select the Installation > Network Setting menu. You should see a screen like the left figure.

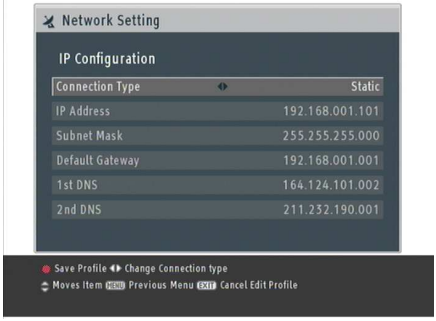
You may choose any entry to make a network profile.



Once you choose an entry, you should see a screen like the left figure.

To change the profile name, launch the on-screen keyboard with the ▣ button. See § 5.2 for how to use the on-screen keyboard.

Select a network type with the V− or V+ button. If you will use a network cable, select the Wired LAN option; otherwise, select the Wireless LAN option. If you didn't plug the wireless module into the digital receiver, the Wireless LAN option would be not available.



Once you select a network type, you should see a screen like the left figure.

If you want to use a dynamic IP address assigned by the router, set the Connection Type option to DHCP. Otherwise, use the Static option.

If you set the Connection Type option to Static, you should specify the IP Address, Subnet Mask, Default Gateway and DNS options to match with the configuration of the router. However, the Default Gateway should be set to the local IP address of your router. Don't forget to press the ▣ button to save the new network profile.

After you finish making network profiles, activate an available profile with the button to enable the network connection.

Enabling a network connection does not give rise to the startup of the FTP server.

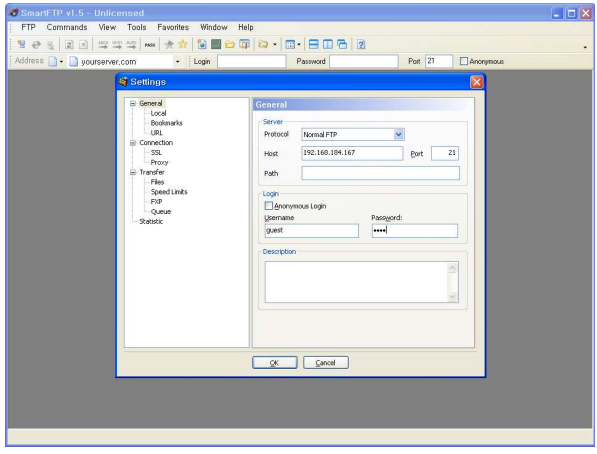
Select the Installation > FTP Setting menu. You should see a screen like the left figure.

Set the User ID and Password options as you desire. When you access the FTP server, you will be asked to log in with the account that is made with these options.

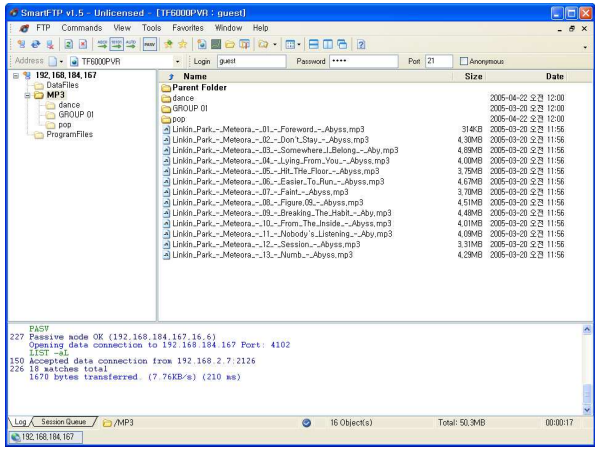
Don't forget to start the FTP server with the button.

8.3 Accessing the FTP server

You need an FTP client program to access the FTP server of the digital receiver.



You can log into the FTP server with the user name and password specified in the FTP Setting menu.

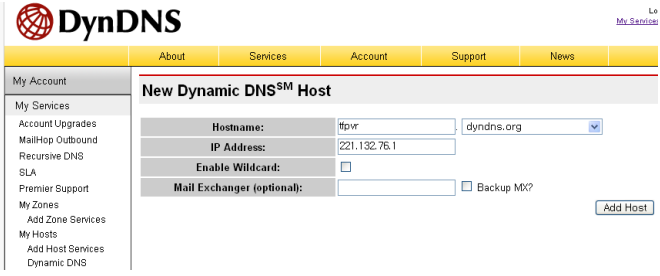


8.3.1 To access over the Internet

When you are away from home, you can access the digital receiver inside your home if your router is configured to route FTP access to the digital receiver by means of port forwarding. Via this feature, your router will lead you to the digital receiver when you access your router with its IP address.

Port Range					
Application	Start	End	Protocol	IP Address	Enable
PVRHTTP	80 to	80	Both	192.168.1. 161	☑
PVRFTP	20 to	21	Both	192.168.1. 161	☑
	0 to	0	Both	192.168.1. 0	☐
	0 to	0	Both	192.168.1. 0	☐

Your router may be assigned to a dynamic IP address by an Internet service provider. So if the router has rebooted, you cannot access it unless someone in your home can inform you of the changed IP address. However, many routers support Dynamic Domain Name System (DDNS) service, which can settle this problem. The following image is an example of one such DDNS service provider.



If you use a DDNS service, you can access your router with a domain name. The instructions on how to use the DDNS service are as follows:

1. Make an account on a web site providing DDNS service, which should be supported by your router.
2. Configure your router with the account so that it can communicate with the web site.

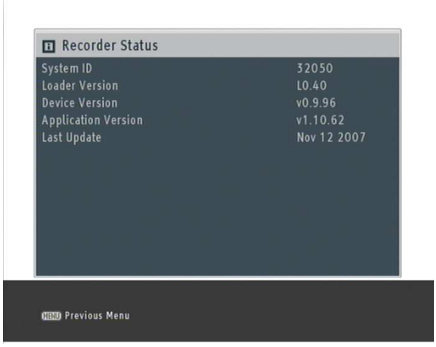
Whenever a new dynamic IP address is assigned to the router, it will inform the DDNS service provider of the new IP address. This makes it possible that you access the router with a domain name at any time.

Chapter 9

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, from the Topfield web site, http://www.i-topfield.com.

9.1 Checking the firmware information



You have to check up the firmware information of your digital receiver before downloading a new firmware. Select the Information > IRD Status menu. You should see a screen like the left figure.

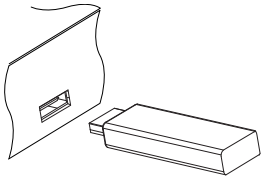
Remember the number of the System ID item, and download the latest firmware with the same system identification.

NOTE

It is only allowed to update with the firmware of which system identification is identical to that of yours. Otherwise you will fail in firmware update.

9.2 From a USB memory

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



1. Download a new firmware from the Topfield web site.
2. Copy the firmware file to your USB memory stick.
3. Turn on the digital receiver.
4. Select the Installation > Transfer Firmware menu, then insert the USB memory stick into the USB port on the digital receiver.
5. Select Update from USB, then Yes and the firmware update package will then be transferred and the digital receiver will then restart itself. After which the firmware update will be performed. Do not interrpt it.
6. After a few minutes the digital receiver will then restart itself again. After which the firmware update process is complete.

NOTE

Your USB memory must be formatted in the FAT file system.

9.3 By means of the FTP server

You can use the digital receiver's FTP server for firmware update.

Upload a new firmware to the root directory of the FTP server, which is in fact the root directory of the internal hard disk drive, and then restart the digital receiver. The digital receiver checks for any available firmware as a rule when it turns on.

See Chapter 8 for how to use the digital receiver's FTP server.

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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.

Topfield continues to improve the digital receiver which this guide explains. So some explanations and illustrations in this guide could be different from the actual digital receiver.

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Australian version
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