

TRF-2400

User Guide

*High Definition
Digital Terrestrial Receiver
Personal Video Recorder*



Quick Setup in five easy steps

1. Connect aerial antenna to ANT IN on back of Toppro unit.
2. Connect your desired audio-video cables from back of Toppro to rear of television (Composite, Component, HDMI).
3. Plug into power point and turn Toppro unit ON using the switch on the back of the unit.
4. Switch television on, then use the television remote to select the correct video input channel for the Toppro (for example, AV1, AV2, Component, HDMI, etc).
5. On the main menu go to Installation/Searching then scroll to Start Search, press **OK**.
Wait till progress bar on bottom of screen reaches 100% then press **OK** to save and **EXIT**.

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Chapter 1

Introduction

The TRF-2400 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 Toppro 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.
- 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.
- You can record one service while you are currently watching another.
- You can record many programmes using a built-in hard drive with large storage capacity.
- 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 or eSATA port, you can record television programmes into it.
- You can play back video files of various formats including DivX.
- You can play a built-in network game with other users via the Internet.
- You can use various Web services including YouTube. (optional)

1.2 Controlling the digital receiver

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

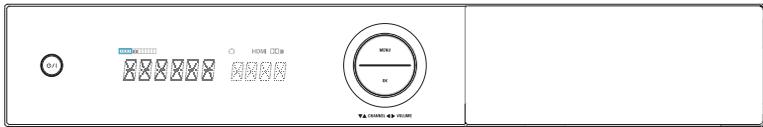
NOTE

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 to indicate its status. The following indicates what they mean.



Power button switches the digital receiver between standby mode and active mode.

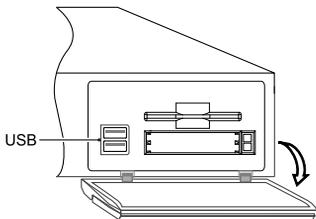
Front display shows the current time in standby mode, and displays the current service in active mode.

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

OK button displays the services list. See §5.2.1 for more details. It is also used to select a menu item.

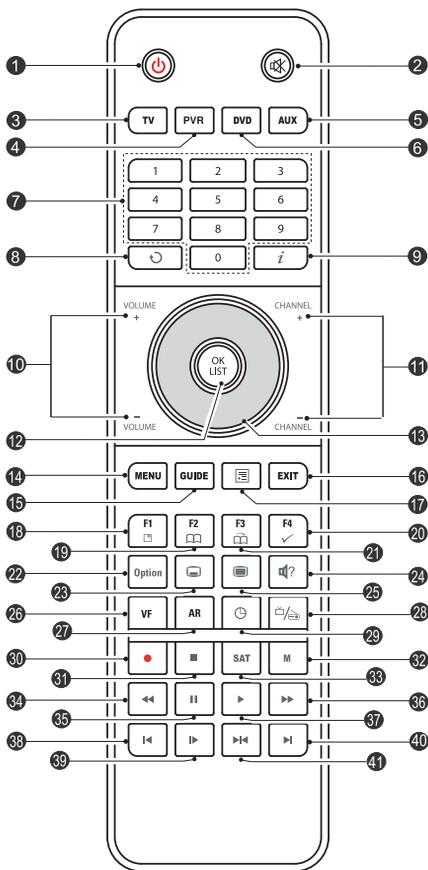
CHANNEL **▼**, **▲** buttons switch to the previous or next service.

VOLUME **◀**, **▶** buttons decrease or increase the volume. You have to insert your subscription card into the front slot to watch pay services.



There is a USB port on the front panel for firmware update and data transfer.

1.2.2 Remote control



- 1**  button switches the digital receiver between standby mode and active mode.
- 2**  mutes the sound. Press again to switch it back on.
- 3**  switches the remote control to television mode to operate your television.
- 4**  switches the remote control to receiver mode to operate the digital receiver.
- 5**  switches the remote control to operate your audio-video receiver.
- 6**  switches the remote control to DVD mode to operate your DVD player.
- 7** Numeric buttons are used to enter a service number for service change or to specify values for menu options.
- 8**  switches over between the current service and the previously viewed one.
- 9**  displays the service information box. It is also used to display more information about a programme.

- 10** ,  buttons decrease or increase the volume.
- 11** ,  buttons switch to the previous or next service.
- 12**  displays the services list. See §5.2.1 for more details. It is also used to select a menu item.
- 13** Navigation buttons are used to navigate in menus or to change values for menu options.
- 14**  displays the main menu. It is also used to return to the previous menu from a submenu.
- 15**  displays the electronic programme guide.
- 16**  is used to exit a menu or to hide on-screen information.
- 17**  is used to display the list of recorded programmes that are stored in the internal hard drive. See §7.2 for more details.
- 18**  has different functions per menu.
- 19**  is used to make a bookmark on playback or time-shift.
- 20**  is used to edit a recording.
- 21**  is used to jump to next bookmark position.
- 22**  has different functions per menu.
- 23**  is used to select a subtitle track.
- 24**  is used to select an audio track and a sound mode.
- 25**  is not used in this model.
- 26**  changes video resolution. See §4.1.1 for more details.
- 27**  changes aspect ratio. See §4.1.2 for more details.
- 28**  switches over between television services and radio services.
- 29**  is used to set a sleep timer in 10 minute increments.
- 30**  is used to start recording.

- 31**  is used to stop playback, to stop recording, or to jump back to live television from time-shifted television.
- 32**  switches the presentation by turns among the digital receiver, the external device linked to the Composite video input, and the external device linked to the Component video input.
- 33**  is used for multi purpose functions.
- 34**  is used to start reverse playback. Subsequent presses increase the rewind speed.
- 35**  pauses live television or playback of a recorded programme.
- 36**  is used to start fast forward playback. Subsequent presses increase the playback speed.
- 37**  resumes normal playback speed, or displays the progress bar for navigation on playback or time-shift. To play a recorded programme, see button **17**.
- 38**  is used to jump back to the beginning of the recording on playback.
- 39**  is used to start slow motion playback. Subsequent presses change the playback speed.
- 40**  is used to jump to the end of the recording on playback.
- 41**  has different functions per menu.

NOTE

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

Chapter 2

Setup

2

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 Component cable (RCA cable)
- One Composite cable (RCA cable)
- 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 voltage must range between 90 and 250 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

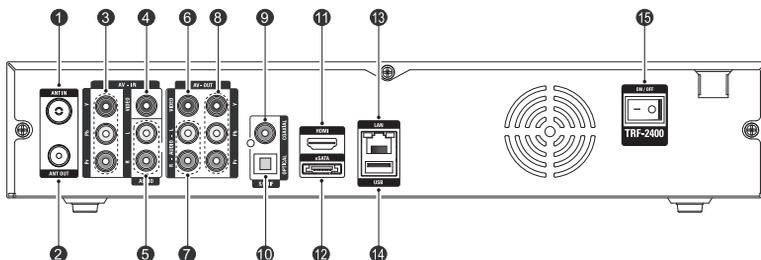
Input voltage	90 to 250 V AC, 50/60 Hz
Power consumption	47 W at maximum in active Under 1 W in passive standby

Table 2.2: Physical specifications

Size	380 × 60 × 265 mm
Weight	3.1 kg
Operating temperature	0 to 45 °C
Storage relative humidity	5 to 90 %

2.3 Rear panel connections

The TRF-2400 has a wide range of 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 | ANT OUT | Terrestrial broadcasting signal output socket through the ANT IN socket for another digital receiver |
| 3 | Y/Pb/Pr | Component video input sockets for the video recorder or suchlike (blue/green/red) |
| 4 | VIDEO | Composite video input socket for the video recorder or suchlike (yellow) |
| 5 | AUDIO L/R | Stereo audio input sockets for the video recorder or suchlike (white/red) |
| 6 | VIDEO | Composite video output socket for the television set (yellow) |
| 7 | AUDIO L/R | Stereo audio output socket for the television set or the audio-video receiver (white/red) |
| 8 | Y/Pb/Pr | Component video output socket for the television set (green/blue/red) |
| 9 | S/PDIF COAXIAL | Coaxial-type digital audio output socket for the audio-video receiver |
| 10 | S/PDIF OPTICAL | Optical-type digital audio output socket for the audio-video receiver |

- 11** HDMI Audio and video output socket for the high definition television set
- 12** eSATA eSATA port for connection to an external hard drive
- 13** LAN Local area network port
- 14** USB USB port for firmware update and data transfer

- 15** ON/OFF Power switch (You have to turn on this switch first to use this digital receiver.)

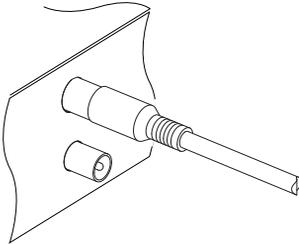
Table 2.3: Connectors specifications

HDMI	High definition video output Left & right audio output Dolby Digital audio output
AV-OUT YPbPr	Component video output
AV-OUT VIDEO	Composite video (CVBS) output
AV-OUT AUDIO	Left & right audio output
AV-IN YPbPr	Component video input
AV-IN VIDEO	Composite video (CVBS) input
AV-IN AUDIO	Left & right audio input
S/PDIF	Dolby Digital audio output
LAN	10/100 Ethernet
USB	2.0 Host (5 V DC, 500 mA)
eSATA	External SATA 2.0

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.

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 ANT OUT connector.

NOTE

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

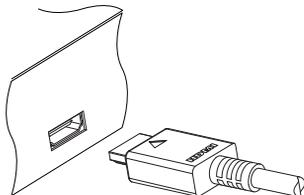
2.4.2 Connecting to your television set

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. Component connector (YPbPr)
3. Composite connector (VIDEO)

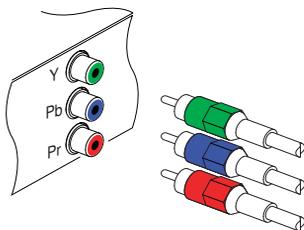
You should configure audio and video settings after connecting up the digital receiver. See §4.1 for a detailed description.

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 Component video output

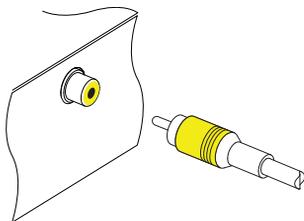


You need to obtain a Component video cable (RCA cable) to use the Component video output. Plug one ends of the cable into the Y (green), Pb (blue) and Pr (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television.

NOTE

When connecting with the Component video cable, remember to also plug in the additional white and red audio cables from the digital receiver to the back of your television.

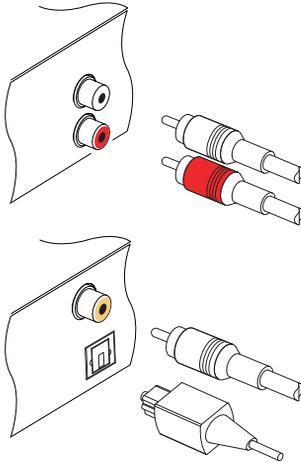
To use the Composite video output



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.

To enjoy Dolby Digital audio, your television or audio-video receiver must be able to decode Dolby Digital audio, and you need to obtain an S/PDIF cable.

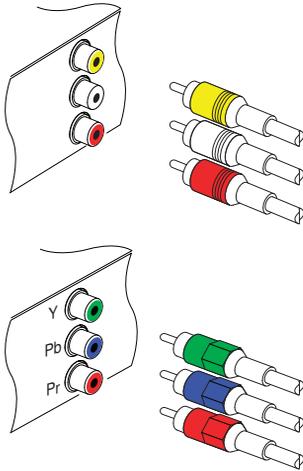
If you want to use the COAXIAL connector, prepare a coaxial S/PDIF cable (RCA cable); otherwise to use the OPTICAL connector, prepare an optical S/PDIF cable. Plug one end of the cable into the S/PDIF socket on the digital receiver, and plug the other end into the matching socket on your audio-video receiver.

NOTE

Enable Dolby Digital output by changing the audio setting to bitstream. See §4.1.3 for more details.

2.4.3 Connecting to an external device

The digital receiver can also present or record the video from an external device such as a DVD player through the Composite or component connector.



You need to obtain a Composite cable (RCA cable) to use the Composite connector. Plug one end of the cable into the VIDEO (yellow), AUDIO L (white) and AUDIO R (red) sockets on the digital receiver, and plug the other end into the matching socket on your video recorder or suchlike.

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.

NOTE

You can use only 576i or 576p at 50 Hz in Component input connector. (AV-IN YPbPr)

To switches the output between the digital receiver and the device connected to the AV-IN sockets, press the **M** button or alternatively select the Entertainment > Analog Input menu.

When you select the Analog Input menu, you have to select between Composite and Component. To use the Composite connector, select the Composite; otherwise, select the Component to use Component connector.

NOTE

When using the AV IN sockets, the input data will be displayed one second later than the original input data. (AV Input Audio Level : 2.0 Vrms at maximum)

2.5 Switching on for the first time

Now that you have your digital receiver connected, you should 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

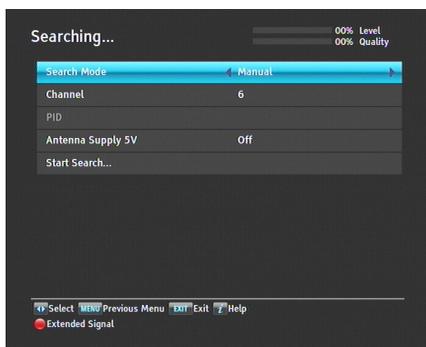
3

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 > Searching menu. You should see a screen like the left figure.

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 the services of a specific transponder since more than one service are provided via each transponder. Set the **Search Mode** option to **Manual**, then select your desired transponder at the **Channel** option. The number ranges from 6 to 12 in VHF and 28 to 69 in UHF.

It is possible to search single service in a certain transponder only if you know the desired service's audio and video packet identification (PID). Set the **Search Mode** option to **Advanced**, then the **PID** option becomes enabled. Specify the PIDs of your desired service with the numeric buttons.

To start service search, move down to the **Start 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 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. Select the **Installation > System Recovery > 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.

3.3 Resetting to user settings

You can store your own data including the following:

- Services list
- Favourite lists
- Preference settings

Also you can restore them at any time.

To store your data, select the **Installation > System Recovery > Store System Data** menu, then you get asked for confirmation. If you select **Yes**, your data will be stored. Whenever you store your data, they are all overwritten. To restore your data, select the **Installation > System Recovery > Recover System Data** menu, then you get asked for confirmation. With the choice of **Yes**, your data will be restored.

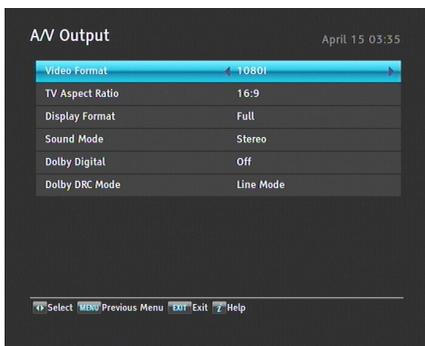
3.4 Clearing the services list

If you only want to clear the services list, select **Installation > System Recovery > Reset Service List**, then you get asked for confirmation. With the choice of **Yes**, the services list will be cleared. After this, you have to do service search again.

Chapter 4

Preference Settings

4.1 Video and audio settings



You have to configure the video and audio settings appropriately for your television set and other devices. Select the **Settings > A/V Output** menu. You should see a screen like the left figure.

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

Set the Video Format 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 Auto 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. Whenever you press it, the video resolution is changed in turn.

NOTE

You can enjoy only standard definition video with the Composite video output (AV-OUT VIDEO).

4.1.2 Television aspect ratio

If you have a wide-screen television, set the TV Aspect Ratio 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. To watch normal-screen programmes in full screen like the left figure, set the Display Format option to Full. Normal-screen pictures then will be inflated to fit to the width of the wide screen. Otherwise, to watch them in the original ratio like the right figure, set it to Center. 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 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. Then wide-screen pictures will be cut out on the left and right sides equally to fit to the width of the normal screen.

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 §5.2.4 for a detailed description.

The digital receiver can output two types of digital audio signals via the S/PDIF output. One is an encoded signal, and the other is a decoded signal. If you have the digital receiver linked to your audio-video receiver via the S/PDIF output, you have to set the Dolby Digital option to Off, which means that the digital receiver will output encoded Dolby Digital audio without decoding so that your audio-video receiver can decode it.

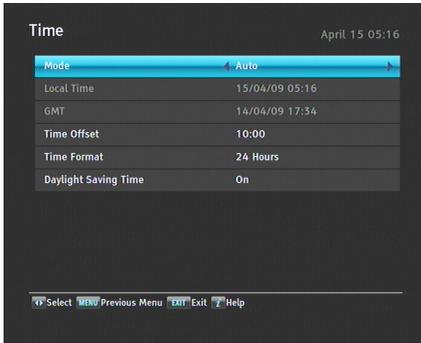
Otherwise, set it to On, then the digital receiver will output decoded Dolby Digital audio, scaling it down to two channels.

NOTE

Only if the service you are currently watching provides a Dolby Digital audio track, you can enjoy Dolby Digital sound.

4.2 Local time setting

You should set your local time for timer events.



Select the **Settings > Time** 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** option becomes 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** item.

To set the local time manually, 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*.

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.

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 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 §5.2.3. You can prevent your children from watching specific programmes by specifying a maximum permissible level.



Select the **Settings > 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' as default.

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

No block restricts no programme.

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 Audience*, 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 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 to override. To change the number, select the Change PIN Code menu, then a box pops up, asking a new PIN. 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 item is set to Locked, you have to enter the PIN when accessing the Time menu. If you enter a wrong number, you cannot use the menu. To release a locked item, set it to Unlocked.

4.4 Options for recording



To set the options for recording, select the Settings > Recording menu. You should see a screen like the left figure.

To enable the time-shift function, you should set the Time Shifting option to anything other than Disable. The available range for this option is 30 minutes to 5 hours. You will have the latest

of the current programme as long as the duration specified at this option.

You can record a programme into both an external and the built-in hard drive. If you want to record a programme into an external hard drive, set Recording Drive option to External; otherwise, set this option to Internal.

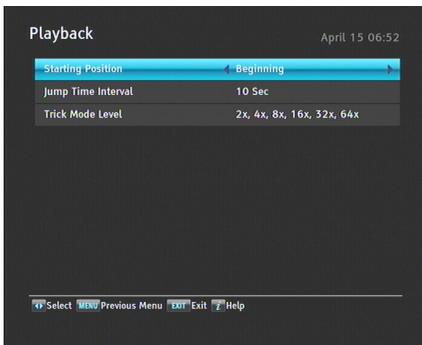
If you set the Time Shift Storage option to Enable, the time-shifted programme will be saved in the TimeShift folder of the hard drive.

You can set the duration of the timer recording. Set the Timer Recording Duration option as you desire. Its available range is 10 minutes to 3 hours.

Time padding is the feature of adding extra recording time to the beginning or end of a programme, so that you do not miss any part of the programme. Set the Time Padding of Timer Recording option as you desire.

You can adjust the duration of the instant recording. Set the Instant Recording Duration option as you desire. Its available range is 30 minutes to 5 hours.

4.5 Options for playback



To set the options for playback, select the Settings > Playback menu. You should see a screen like the left figure.

If you want to play back a recorded file from beginning, set Starting Position option to Beginning. To play back a recorded

file from the part where you were watching, set this option to Continuing.

You can adjust the jump interval that is for playback. Set the Jump Time Interval option as you desire. Its available range is 10 seconds to 3 minutes.

If you want to enjoy more levels of playback speed, set the Trick Mode Level option to 2x, 4x, 8x, 16x, 32x, 64x; otherwise, set it to 4x, 16x, 64x.

NOTE

You can enjoy video files such as DivX with the digital receiver. However, the above options might not be effective depending on the video files to be played. For detailed description on how to play back a video file, refer to §8.4.

4.6 Options for on-screen display



To set the options for the on-screen display (OSD), select the **Settings > OSD** menu. You should see a screen like the left figure.

To adjust the transparency level of the OSD, set the OSD Transparency option as you desire. Its available range is 0 to 50 percent.

To adjust the display time of the information box, set the Info Box Display Time option as you desire. Its available range is 1 to 30 seconds. If you set this option to No Info Box, the information box will not be displayed when you switch services.

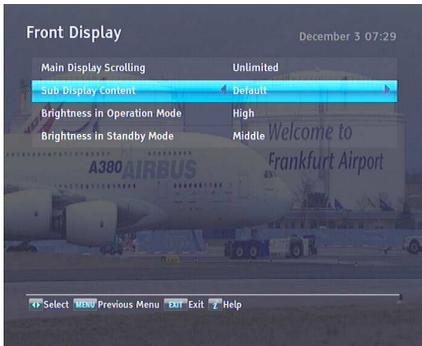
However, pressing the  button will display the information box. If you set this option to **Never Hide**, the information box will always be displayed. For the information box, see §5.2.3.

In addition, you can raise or lower the position of the information box. Set the **Info Box Position** option as you desire. Its available range is -10 to $+3$ lines. The higher you set the option, the lower the information box will be positioned.

To use an animation effect when changing menu, set the **Animation** option to **Enable**.

If any service's name is too long to fit the width of the service name column on the services list screen, you can get it to scroll by setting the **Text Scroll** option to anything other than **Disable**. With the choice of **Full Scroll**, it will be fully scrolled until its end disappears; with the choice of **Part Scroll**, it will be scrolled only to its end.

4.7 Options for the front display



To set the options for the front display, select the **Settings** > **Front Display** menu. You should see a screen like the left figure.

The front display shows the currently viewed service's number and name. If any service's name is too long to fit the width of the service name column, you can get it to scroll by setting the **Main Display Scrolling** option to anything other than **Disable**. With the choice of **Unlimited**, it will be repeatedly scrolled; with

the choice of **Once**, it will be scrolled only once. If you want to have the current time displayed instead of the service number, set the **Sub Display Content** option to **Time**.

You can also adjust the brightness of the front display in active mode and standby mode by setting the **Brightness in Operation Mode** option and the **Brightness in Standby Mode** option to any as you like.

4.8 To use IceLINK

If you want to use this feature, select the **Settings > IceLink** menu. Set the **IceLink** option to **Enable** to activate this feature, then the **User Info** option become enabled. Set the option as you desire.

NOTE

A network profile will need to be set up first to use IceLINK.

4.9 Options for Photo Album

You can change a time interval and effect of slideshow in the photo album. For the photo album feature, see §8.3.

To change the time interval of slideshow, select the **Settings > Miscellaneous** menu, and then set the **Slideshow Time Interval** option as you desire. Its available range is 3 to 10 seconds.

To change the effect of slideshow, select the **Settings > Miscellaneous** menu, and then set the **Slideshow Effect** option as you desire. There are four types of effects as follows:

Overlap overlaps the current picture and a following picture.

Cover covers the current picture with a following picture.

Move moves the current picture and displays a following picture.

Mosaic displays a following picture with a mosaic effect.

To use those effects randomly, set this option to **Random**. The default value is **Random**.

4.10 Options for standby mode

You can have the current time displayed on the front display in standby mode. Select the **Settings > Miscellaneous** menu and set the **Standby Mode** option to **Active**; otherwise, set it to **Passive**. When you set the **Standby Mode** option to **Active**, the receiver can also bypass the signal from the antenna.

You can adjust the A/V input quality. To do that, set the **A/V Input Quality** option as you desire. For the **A/V Input**, refer to §2.4.3.

Chapter 5

Every Day Use

5.1 Volume control

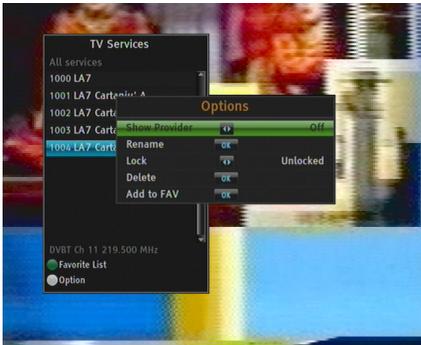
Use the **VOLUME-** and **VOLUME+** buttons to alter the volume to a comfortable level. You may need to adjust the volume on your television set too. To temporarily switch off the sound, press the **⊗** button. Press it again to restore the sound to previous level.

5.2 Watching television

To change services, press the **CHANNEL-** or **CHANNEL+** 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.

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.

Pressing the button displays 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 §6.2 as to 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 Fav option, then the favourite groups will be displayed. Put the highlight bar on a desired group and press the .

- To delete the highlighted service, select the Delete option, then you get asked for confirmation. With the choice of Yes, it will be deleted. If you want to restore it as before, you have to perform service search again.

5.2.2 The favourite service lists

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



To display the favourite lists, press the **[F2]** button at the services list screen. For the services list, see §5.2.1.

To select a favourite list, put the highlight bar on a desired favourite group list and press the **[OK]** button, then the selected favourite group's services will be listed.

As to how to edit the favourite lists, refer to §6.1.

To select a favourite service, put the highlight bar on a desired service and press the **[OK]** button, then it will be displayed. To select another group, press the **[↶]** button.

After you have selected a favourite service, if you then switch to another service using the **[⊙]** or **[⊚]** 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 at the top right of the screen whenever you switch services.

To return to the services list, press the **[F1]** button. Besides that, you can add or delete a favourite group or service.

To add the service you are currently watching into a favourite group, press the **[Option]** button to display additional options, and then select **Add this service item**.

To remove the currently highlighted favourite group or service, select **Delete** item in the additional option box, then you get asked for confirmation; with the choice of **Yes**, it will be removed.

5.2.3 Viewing programme information

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



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

5

In addition, you might see the following symbols:

- Subtitle symbol () if subtitle tracks are provided on the current programme.
- Dolby Digital symbol ( D) if a Dolby Digital audio track is provided on the current programme.
- Lock symbol () if the current service is locked.

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

5.2.4 Selecting audio tracks

Some programmes are provided with audio tracks in one or more languages. Pressing the  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.

5.2.5 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.

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 **[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 the programme with the **[⏪]** or **[⏩]** button and press the **[i]** button. To switch to another service, press the **[Ⓜ]** or **[Ⓜ]** button.

You can travel over previous days with the **[F2]** button, and can travel over next days with the **[F3]** button.

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

Pressing the **[F1]** button will rearrange the form, swapping the columns and rows. To switch it back, press the **[F1]** button again.

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 Time Shifting option to desired duration of time. Then the digital receiver will archive the programme as much time as you set in the option. See §4.4.

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 navigate using the progress bar, refer to §7.3.1.
- You can jump backward and forward by pressing the **F4** and **F3** buttons. You can change the jump time at the Jump Time Interval option. See §4.5.
- You can change playback speed. See §7.3.2 for slow motion. For fast motion, see §7.3.3.
- To check your current position in time-shift, press the **i** 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 make a recording of the time-shifted programme,, see §7.1.4.
- To end time-shift, press the **■** button. The live programme will be displayed.

NOTE

You can adjust some options for time-shift. Refer to §4.4.

Chapter 6

Organising Services

6.1 Editing the favourite lists

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



Select the installation > Edit Services > Edit Favorite List menu. You should see a screen like the left figure. There are three columns:

- Group name (left)
- Favourites list (centre)
- Services list (right)

The services list contains all available services, whereas the favourites 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 favourites list.

NOTE

To load guide, go to the specific channel, press the **GUIDE** button, then the guide will populate. Do this to every single channel upon starting up PVR.

You can add up to 30 groups. To add a new group, select the **NEW** item in the group list, then the on-screen keyboard appears. See §6.2 as to how to use the on-screen keyboard.

To rename a group, put the highlight bar on the group entry you want and press the **F2** button, then the on-screen keyboard likewise appears.

To delete a group, put the highlight bar on the group entry you want and press the **F3** button, then a message box appears, asking you for confirmation. With the choice of **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 **F1** 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 **F1** button again, then the highlight bar gets moved to each column.

Furthermore, you can rearrange a group's favourites by moving a favourite entry. To move a favourite entry, put the highlight bar on the favourite entry you want and press the **F2** button. Press the **⌂** and **⌂** buttons or **⌂** and **⌂** buttons to

move it to a desired place and press the **(OK)** button. To add radio services, press the **(\square/Δ)** button, then radio service entries get listed in the services list. To recall the television services list after adding radio services, press the **(\square/Δ)** button again.

As to how to use the favourite service lists you organised, refer to §5.2.2.

6.2 How to use on-screen keyboard



You can move the highlight key horizontally with the **(\odot)** and **(\ominus)** buttons and vertically with the **(\odot)** and **(\ominus)** buttons. Pressing the **(OK)** button on a key enters its letter in the input line. To type a space, select the **Space** key. To type lower case letters or numerals, select the **Shift** key.

To delete a letter, put the cursor to the right of the desired letter on the input line and then select the **Del** key. You must select the **Save** key to store the name; otherwise if you press the **(EXIT)** button, the name will not be stored.

Chapter 7

Recording and Playback

You can record TV programmes into an external hard drive as well as the built-in hard drive.

NOTE

To use an external hard drive, you must connect the external hard drive to the USB port or the eSATA port of the digital receiver. You cannot play back the recordings with a regular MPEG player on your computer because they are formatted differently from the standard MPEG format. Visit <http://www.kmplayer.com> where you can find an MPEG player able to play them back.

CAUTION

Do not disconnect the external hard drive while recording or playing back. It may cause damage to recorded programmes. You should disconnect the external hard drive in standby mode only.

Avoid transferring files while the unit is set to record.

This recorder can record four channels simultaneously, however, this is controlled by the channel frequency. Each channel

has other programmes under the one frequency (E.g. Channel Nine has 9, 9HD, GO, GEM) (Channel ABC has ABC News 24, ABC1, ABC2, ABC3, etc.). This recorder can record two programmes on each channel frequency simultaneously. (E.g. 10.TEN Digital plus 11.One HD and 90.GEM plus 99.Go!) Whilst recording the above combination of programmes you can also playback a pre-recorded show.

7.1 Recording a programme



Once a recording gets 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 different service from the service being recorded, you will see a number on the centre of the symbol, this indicates the order that the recording has started. When you record two different channels from two different stations, what you are actually doing is locking each tuner to two separate station bandwidths.

For example, if you record channel 7TWO and channel 9 Digital, you have locked the first tuner into all the channels from 7 which includes: 7 Digital, 7 Digital 1, 7TWO and 7Mate. While on the second tuner you have locked in all the channels from 9 which includes: 9 Digital, Gem and Go.

With this in mind, while the above two channels (eg. 7TWO and 9 Digital) are being recorded, you can watch a third channel which can be only one of the following: 7 Digital, 7 Digital 1, 7Mate, Gem or Go.

The same can be said for recording for four channels (eg. 7TWO, 7Mate, 9 Digital and Go). You can watch an additional channel which can be only one of the following: 7 Digital, 7 Digital 1 or Gem.

CAUTION

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

If you want to record the video from the external device linked to the Composite video input or to the Component video input, switch the video channel to your desired one by pressing 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.



After a recording has started, pressing the  button displays a menu like the left figure, in which you can set the recording duration.

To specify an arbitrary recording duration, set the Duration option as you desire with the  and  buttons and press the  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 enabled. Once the After this program option is selected, the current recording will stop at the time when the current programme is scheduled to end. Likewise, once the After next program option is selected, the current recording will stop at the time when the next programme is scheduled to end.



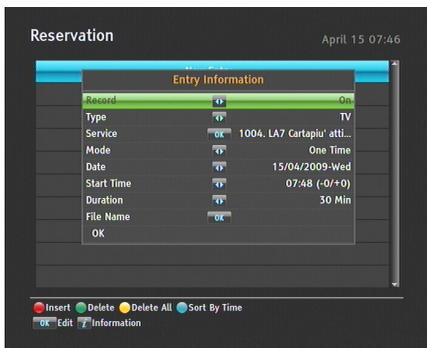
To stop recording, press the button; then a box like the left figure appears, which shows the programmes currently being recorded. Select recording by using navigation buttons then press button to stop the recording.

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 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 the program name if available or after its service name with a suffix of a number. To view the recorded programme list, press the button or alternatively select the Recording > Recorded Program 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 the **Recording > Reservation** menu, then the timer list will be displayed. To add a new timer event, press the **[F1]** 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 recorder or suchlike in this case.
2. You may have four sources for recording: TV, radio, the video from the external device linked to the Composite video input, and the video from the external device linked to the Component video input. Set the **Type** option to your desired source.
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. Set the **Mode** option as you desire. 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 §6.2 as to how to use the on-screen keyboard.
8. To set a recording reservation 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 **F2** button, then you get asked for confirmation. With the choice of Yes, it will be deleted. To delete all timer event, press the **F3** button.

You can sort timer events by time with the **F4** button.

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 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 **[RECORD]** button, then the letter **R** is displayed.
4. Pressing the **[OK]** button once more will cancel the timer.

7.1.4 Recording a time-shifted programme

While watching a programme with time-shift, you can record it by performing the following steps:

1. Press the **[PAUSE]** button to display the progress bar.
2. Hold down the **[REWIND]** button to move back in timeshift.
3. Press the **[RECORD]** button to start recording. When you get prompted to save the timeshift programme, select YES at the same time a new live recording will begin from the end of your timeshift file on the same channel.
4. If you wish to stop the live recording, press the **[STOP]** button on the remote.

See §5.4 for detailed description about the time-shift feature.

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 Recording > Recorded Program 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 sort recordings

To sort the recordings, take the following steps:

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

7.2.3 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 **Option** 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.

7.2.4 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 **Option** button to display additional options.
3. Select the **Rename** option, and the on-screen keyboard appears. Change the name and save it. See §6.2 as to how to use the on-screen keyboard.

7.2.5 To make a new folder

To make a new folder, press the **F2** 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 a recording to another folder

To move a recording to another folder, put the highlight bar on a desired recording and press the **F3** button. If an external hard drive is connected to the digital receiver, you get asked to select between the built-in and external hard drive. Select **Internal**, then the folders are listed. Once you choose a folder, the recording is moved to 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 **Recording > Recorded Program** 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 navigate using the progress bar

First press the  button to display the progress bar.

- To go forward, hold down the  button; to go backward, hold down the  button.

- If there are no bookmarks, you can jump forward by the minute set to the Jump time Interval option with the **F3** button. See §4.5 for that option. Refer to §7.3.4 as to how to bookmark a position.
- To jump to the beginning, press the  button.
- To jump to the end, 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 4 steps: 1/2, 1/4, 1/8 and 1/16 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. 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 3 steps (4, 16 and 64 times) or in 6 steps (2, 4, 8, 16, 32 and 64 times). See §4.5.

7.3.4 To make a bookmark



You can mark favourite parts of a recording by creating bookmarks and then jump to them in sequence. Bookmarks are stored with the recording so that you can use them again afterwards. To make bookmarks, take 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 pointer appear above the progress bar like in the picture above.
3. To jump forward to the next bookmark, 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, take 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 holding down the  or  button.
3. Press the  button, then the pointer starts to blink.
4. Move to the end scene; the selected part is marked in black.

5. Press the  button again to start repeated playback.
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 Recording > Recorded Program 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 Editing a recording

You can cut out or save a part such as 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  or  button.
3. Press the  button, then the pointer starts to blink.
4. Move to the end scene; the part is marked in black.
5. Press the  button, then the edit options are displayed.
6. If you choose the Cut 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 'CUT' and a number.

NOTE

Edited files cannot be fast-forwarded and rewinded. The  and  buttons are still active for this feature.

7.5 Copying a recording

You can record the file in whole or in part during a playback by performing the following steps:

1. Start playback of a recording you want.
2. Move to a scene from which you want to start copying by holding down the  or  button.
3. Press the  button, then it will be copied in a new file which is named after the original recording with a suffix of 'COPY' and a number.
4. To stop copying, press the  button.

Chapter 8

Entertainment

This digital receiver provides several special features for entertainment.

NOTE

To fully enjoy all of the features described in this chapter, you had better configure the network settings properly. As to how to configure the network settings, refer to [§9.2](#).

8.1 Copying files

NOTE

To copy files to the external hard drive, it must be preformatted in the NTFS file system. After this, the external hard drive can be used with the Toppro PVR and your PC.

You can copy files between the built-in hard drive and external hard drive. To copy from the internal to the external hard drive take the following steps:

1. Connect external hard drive to your Toppro unit.

2. Press the **MENU** button, then go to **Recording > Recorded Program**.
3. Select the file you want to transfer using the navigation buttons on your remote. An orange bar should be on top of the selected file.
4. Now press the **F3** button.
5. You will be given the option to **MOVE** to the internal hard drive (used when you want to transfer to a folder on the internal hard drive) or **COPY** to the external hard drive.
6. Select **COPY**, you will then get a screen showing your external hard drive name, select the USB external hard drive name and press **OK**.

NOTE

The copy command will keep the original file on your internal hard drive and then make a 2nd copy of the file on your external hard drive.

To copy from the external to the internal hard drive, take the following steps:

1. Connect an external hard drive to the digital receiver.
2. Press the **≡** button and then press the **◀** or **▶** button to select the External List.
3. Put the highlight bar on a desired file and press the **F3** button, then the list of folders gets displayed.
4. Select a folder in the built-in hard drive.
5. Press the **OK** button, then the selected file will be copied into the built-in hard drive.

8.2 Playing back MP3 files



You can enjoy music or audio books in MP3 format on the digital receiver. Refer to §8.1 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play an MP3 file, take the following steps:

1. Select the Entertainment > MP3 Player or press the  button and then the  or  button to display the MP3 file list.
2. Put the highlight bar on a desired file; if you want to play several files, select them with the  button.
3. Press the  button to start playback.
4. To stop playback, press the  button.

To play all MP3 files in a subfolder, put the highlight bar on a desired folder, and press the  button. To change from one file to the next or previous file, use the  or  buttons.

8.3 Viewing image files

8.3.1 How to move a file to the photo album

You must move the jpg files into the Photo Album folder first. Please ensure your external hard drive is connected to your unit.

1. Select  button on your remote then go to Entertainment > Media Player.
2. Press the  button on your remote to bring up your external hard drive.

3. Select the external hard drive name and then press **OK**.
4. You will then get access to your external hard drive. Navigate through the external hard drive file and folders until you have selected the image file you want to transfer.
5. With the file selected, press the **F3** button, then another screen will appear. Select Photo Album and press **OK**.



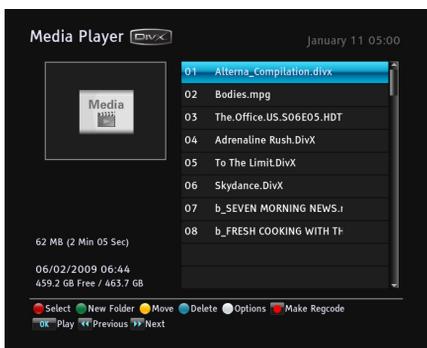
Now, you can view the image files in jpg format by performing the following steps:

1. Select the Entertainment > Photo Album menu, and then press the **◀◀** or **▶▶** button to display the list of image files.
2. Put the highlight bar on a desired file and press the **OK** button; if you want to view several files using a slide show, press the **F1** button. You can change a time interval and effect of slideshow. See §4.9.
3. To stop viewing, press the **EXIT** button.

8.4 Playing back a video file

You can play back media files such as photos, videos and music with this digital receiver. Media file formats that you can play back with the digital receiver are as follows:

- video: DivX, XviD, VOB, MKV, MP4, and AVI
- photo: JPG
- music: MP3



Refer to §8.1 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play a video file, take the following steps:

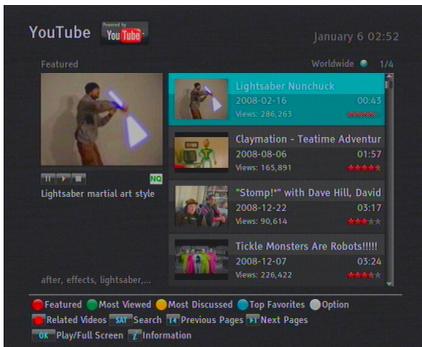
1. Select the Entertainment > Media Player, then press the **(SAT)** button on the remote or press the **(□)** button, and then the **(◀)** or **(▶)** button to display the video file list.
2. Put the highlight bar on a desired file; if you want to play several files, select them with the **(F1)** button.
3. Press the **(▶)** button to start playback.
4. To stop playback, press the **(□)** button.

NOTE

This digital receiver supports only version 3.x, 4.x, 5.x, and 6.x of the Divx format.

8.5 Playing back YouTube contents (optional)

YouTube is a video sharing website where users can upload, view and share video files. With the TRF-2400, you can access YouTube and play back various contents.



When you select the Entertainment > YouTube, you should see a screen like the left figure.

To play back a YouTube content, select a content with the  and  buttons and press the  button. To play back the content with full screen, press the  button again.

You can sort the contents with the option buttons as follows:

-  button by most featured
-  button by view count
-  button from most discussed to least discussed
-  button by top favourites
-  button related contents

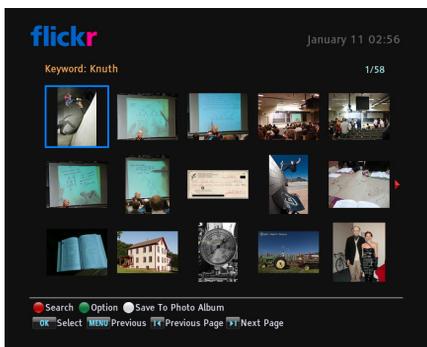
By pressing the  button, you can sort the contents by the updated date, country and quality.

You can also search contents by a specific keyword. To search contents by a keyword, press the  button, then the on-screen keyboard appears. See §6.2 as to how to use the on-screen keyboard.

To see detailed information about the current one, press the  button. To hide the information box, press the  button.

8.6 Sharing image files by Yahoo Flickr (optional)

Flickr is an image hosting website and on-line community platform. You can search an image file from the network server and view the file using the Flickr.



To use this function, select the Entertainment > Flickr.

You can see image files which belong to a specific user by adding a user. To add a user, take the following steps:

1. Press the **F1** button, then the on-screen keyboard appears.
2. Enter a desired user name. As to how to use the keyboard, refer to §6.2.
3. After adding a user, select the user with the  and  buttons and press the **OK** button.

To delete a user, put the highlight bar on a desired user and press the **F2** button, then you get asked for confirmation. If you select YES, it will be deleted.

You can also search image files by a specific keyword. To do that, take the following steps:

1. Press the **F3** button to go to the keyword search mode.
2. Press the **F1** button, then the on-screen keyboard appears.
3. Enter a keyword as you desire. As to how to use the keyboard, refer to §6.2.
4. Select the Save key on the on-screen keyboard to start searching image files.

To save an image file to the photo album, press the **Option** button. For the photo album see §8.3.

8.7 SHOUTcast Internet radio (optional)

SHOUTcast™ Radio is one of the largest directories of professionally and community programmed online radio stations in the world. Today SHOUTcast™ Radio features over 25,000 stations from around the globe. If you are into pop or rock music, want to check out local or world programming, you're sure to find something you like on SHOUTcast™ Radio.



To use SHOUTcast, select the Entertainment > SHOUTcast.

To listen to a radio station, select a radio station with the  and  buttons and press the  button.

To search radio stations by genre, press  button.

You can also search radio stations by a specific keyword. To do that, take the following steps:

1. Press the  button, then the on-screen keyboard appears.
2. Type a keyword you desire. As to how to use the keyboard, refer to §6.2.
3. Select the Save key on the on-screen keyboard to start searching radio stations.

To add a radio station to a favourite list, put the highlight bar on a desired radio station and press the  button. To display the favourite list, press the  button.

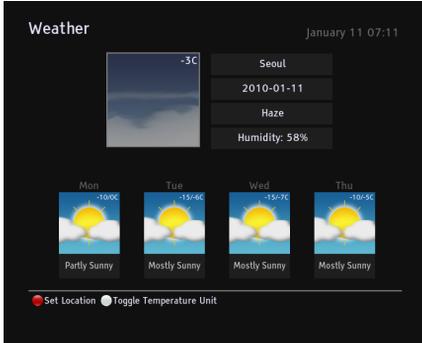
Powered by



For more details, visit the SHOUTcast web site, <http://www.shoutcast.com>. You can check their terms of service at the <http://www.shoutcast.com/disclaimer>.

8.8 Google weather forecast (optional)

You can view the weather of your city or other cities.



To view the weather, select the Entertainment > Weather, then you should see a screen like the left figure.

To change a city, take the following steps:

1. Press the **[F1]** button to see additional options.
2. Set the Continent, Country and City options as you desire with the navigation buttons.
3. Press the **[EXIT]** button.

Pressing the **[Option]** button toggles between the Centigrade and Fahrenheit.

8.9 Network game

You can play a network game named Battle Tank on the digital receiver. You can play the game by yourself or with others via the network.

8.9.1 Single mode

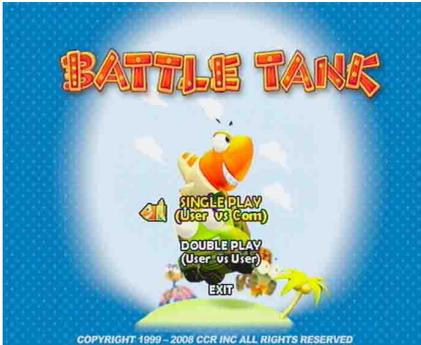
To play the game in single mode, select the Entertainment > Game > Battle Tank (Single), then take the following steps:

1. Select game mode.
2. Select a character.
3. Buy items as you desire.

4. Select a map. If you play the game by yourself, you do not need to select a map.
5. Start playing.

If you want to out of the game while palying, press the **EXIT** button on the remote control.

Selecting game mode



When you select the Entertainment > Game > Battle Tank (Single), you should see a screen like the left figure.

You can select game mode as you desire. If you want to out of the game, select the EXIT option.

There are two modes as below:

Single play playing by yourself.

Double play playing with another user.

Select a mode with the  and  buttons and press the **OK** button.

Selecting a character



After selecting game mode, you should see a screen like the left figure.

Select a character referring to Table 8.1.

If you select the (?), a character will be chosen randomly.

When you play the game for the first time, you can select only two characters. To get a new character, you have to play in single mode and clear all 13 stages.

Table 8.1: Buttons for selection

Action	1 Player	2 Player
Left		
Right		
Up		
Down		startbutton
Select		

You can see the selected character's information of the 1 Player on the left bottom of the screen. Also you can see the selected character's information of the COM or 2 Player on the right bottom of the screen. You have to select a character in 30 seconds; otherwise, the character will be selected automatically.

Buying items



After selecting a character, you should see a screen like the left figure. Buy a item referring to Table 8.1.

When you finish selecting items, select the READY on the screen as follows:

- **1 Player** : Select the READY using the **(MENU)** button and press the **(OK)** button.
- **2 Player** : Select the READY using the **(F1)** button and press the **(F2)** button.

Selecting a map



After buying items, you should see a screen like the left figure.

Select a map with the **(D)** and **(C)** buttons.

After selecting a map, select the START on the screen.

Select the START using the **(MENU)** button and press the **(OK)** button. If you play the game by yourself, you do not need to select a map.

Playing the Battle Tank

When you start the game, you should see a scene like the following figure. Play the game referring to Table 8.2.



- 1** The character's weapons.
- 2** The angle of the character.
- 3** You can see the direction and speed of wind.
- 4** You can see the information of the character as follows:
 ENERGY displays the character's energy.
 POWER displays the power of shot.
 MOVE displays the movement bar.
- 5** You can check your position and enemy's position on this mini-map.
- 6** You can use those items during playing game.
- 7** Displays current player.
- 8** Displays the turn time. If the time is over, turn will be changed to the other player.

Table 8.2: Buttons for playing

Action	Remote Control
Changing weapon	 
Changing angle	 
Moving character	 
Using items	   
Skipping turn	
Changing view of map	   startbutton
Firing a shot	

8.9.2 Network mode

To play the game in network mode, select the Entertainment > Game > Battle Tank (Network), and then take the following steps:

1. Select a game server.
2. Log on to the game server.
3. Joining a game.
4. Selecting a character, map and items for playing.
5. Start playing.

NOTE

Refer to the Battle Tank user guide as to how to play Battle Tank in network mode. You can download it from the Top-pro website, <http://www.topfield.com.au>.

Chapter 9

Accessing via Network

NOTE

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

This digital receiver provides features of web service and FTP service, by which through the network you can make scheduled recordings, or transfer recording files to your computer.

Here you need a router, which will connect the digital receiver to your computer or to the Internet. If you want to have a wireless connection, you need a wireless router.

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 home page of the digital receiver. Refer to §9.3 for detailed description about things you can do by using the web service of the digital receiver.
4. Accessing the FTP Server of the digital receiver.

NOTE

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

9.1 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.

9.1.1 To access within the local area network

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

Local IP Address :	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="1"/> <input type="text" value="1"/>
Subnet Mask :	<input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="255"/> <input type="text" value="0"/> <input type="button" value="v"/>
DHCP Server : <input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Starting IP Address :	<input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="1"/> <input type="text" value="100"/>
Maximum Number of DHCP Users :	<input type="text" value="50"/>
Client Lease Time :	<input type="text" value="0"/> minutes (0 means one day)
WINS :	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>

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.

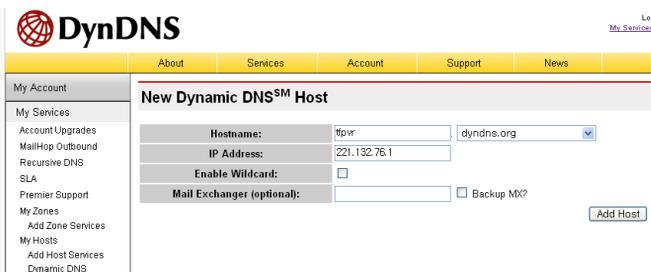
If the digital receiver reboots, a new dynamic IP address will be assigned to it. You had better assign a static IP address to the digital receiver to avoid this inconvenience. As to how to assign a static IP address, refer to the manual of your router; as to how to specify a static IP address on the digital receiver, see §9.2.

9.1.2 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 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	<input checked="" type="checkbox"/>
PVRFTP	20	to 21	Both	192.168.1.161	<input checked="" type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>

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.



The image shows the DynDNS website interface. The main heading is "New Dynamic DNSSM Host". The form includes the following fields and options:

- Hostname:** A text input field containing "tprvr" and a dropdown menu set to "dyndns.org".
- IP Address:** A text input field containing "221.132.76.1".
- Enable Wildcard:** A checkbox that is currently unchecked.
- Mail Exchanger (optional):** A text input field and a checkbox labeled "Backup MX?" which is also unchecked.

At the bottom right of the form is an "Add Host" button. On the left side, there is a navigation menu with options like "My Account", "My Services", "Account Upgrades", "Mail/Pop Outbound", "Recursive DNS", "SLA", "Premier Support", "My Zones", "Add Zone Services", "My Hosts", "Add Host Services", and "Dynamic DNS".

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.

DDNS Service :

User Name :

Password :

Host Name :

Internet IP Address : 221.132.76.3

Status : DDNS is updated successfully

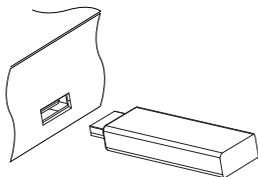
Whenever a new dynamic IP address is assigned to the router, it will inform the DDNS service provider of the new IP address. This makes it possible that you access the router with a domain name at any time.

9.2 Network setup

9.2.1 For a wired connection

1. Connect your Ethernet cable from your router to the Top-pro recorder.
2. Press Installation > Network Setting > IP Setting.
3. Select Wired/Wireless LAN. Then select Wired as the preferred connection.
4. It is recommended to use a dynamic IP address by the router therefore select DHCP as the connection type. However if a static connection is set then please refer to your router for an IP address, Subnet Mask, Gateway, Primary DNS, Secondary DNS.
5. Once a connection has been set scroll down to activate profile and press the OK button on the remote.
6. A successful connection will populate all the IP settings and the Level/Quality bars on the TV screen will show a high percentage level.

9.2.2 For a wireless connection



1. Connect the USB wireless dongle to the USB port on the PVR.
2. Press **Installation > Network Setting > IP Setting**.
3. Select **Wired/Wireless LAN**. Then select **Wireless** as the preferred connection.
4. Select AP list and press OK. A list of available networks will be shown, then select your personal network.
5. Once network is selected choose the security mode WPA / WPA2 / WEP. Select your WPA / WPA2 / WEP algorithm according to your router setting.
6. Enter the pre-shared key which is also known as your network password. Network password must be exactly the same as your router setting including Upper/Lower case and any numbers used.
7. A successful connection will populate all the IP settings and the Level/Quality bars on the TV screen will show a high percentage level. If the fields are not populated check the password and any security settings.

NOTE

After selecting activate please allow up to 5 seconds for fields to populate. Most routers can be accessed via a web browser. Refer to your Router user guide on how to access router setting.

9.3 Accessing the web server

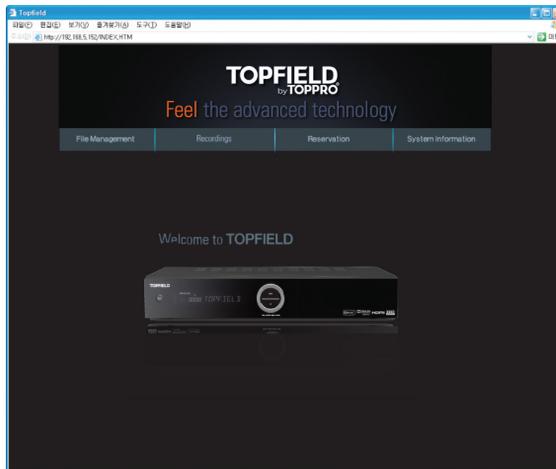
To Access to the web server, set the **Installation > Network Setting > Web Server** option to Enable.

Select the Installation > Network Setting > User Info menu. At this time, you have to enter Personal Identification Number (PIN). Then set the User ID and Password options as you desire. And select OK to save the settings. When you access to the web server, you will be asked for the account that was made with these options.

In way of the web server of the digital receiver, you can do the following:

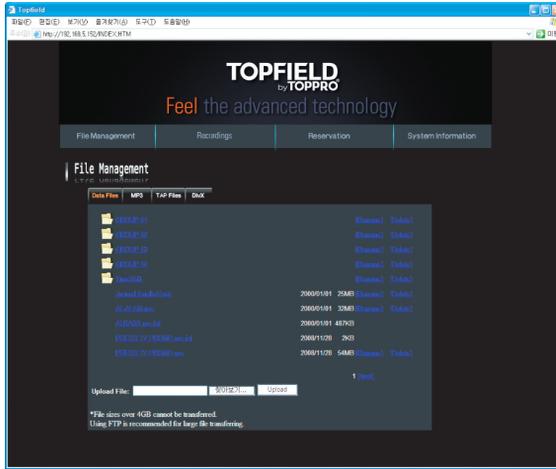
- Download recording files.
- Create new recording timers.
- View information about the programme currently being recorded.
- View the system information of the digital receiver.

To access the digital receiver's home page through your web browser, enter its IP address, or domain name if you use a DDNS service. For the DDNS service, refer to the user manual of your router.



You cannot only download but also upload recording files or MP3 files in the File Management page. However, if you

wish to download or upload a file of which size is 2 gigabyte or more, it is recommended using the FTP server rather than the web server.



NOTE

The maximum number of user connections is one. This means that you cannot access the web server while someone else is occupying it.

9.4 Accessing the FTP server

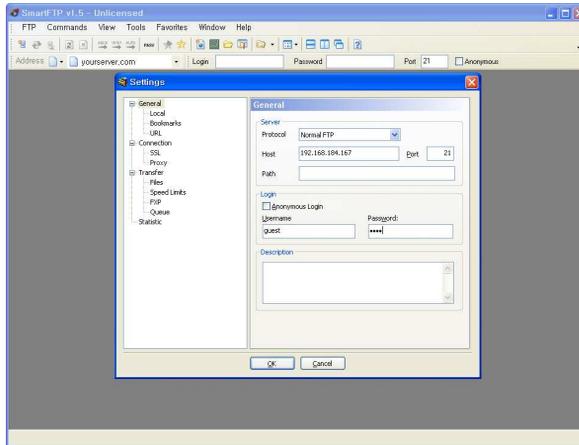
To Access to the FTP server, set the Installation > Network Setting > FTP Server option to Enable.

Select the Installation > Network Setting > User Info menu. At this time, you have to enter Personal Identification Number (PIN). Then set the User ID and Password options as you desire. And select OK to save the settings. When you access to the FTP server, you will be asked for the account that was made with these options.

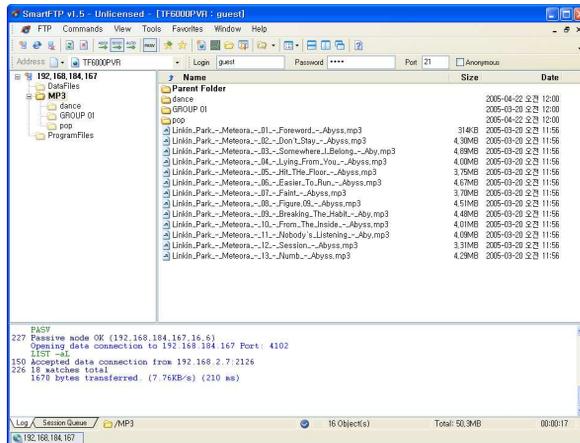
NOTE

You can access the FTP server with an anonymous account. However, with an anonymous account you can only download files. You cannot upload files.

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 **Installation > Network Setting > User Info** menu.

**NOTE**

The maximum number of user connections is one. This means that you cannot access the FTP server while someone else is occupying it.

Chapter 10

Toppro Application Program

If you are good at programming with C/C++ language, you may make an executable program to run on the digital receiver. We call user-made programs TopproApplication Programs (TAP).



For TAPs writers, Toppro provides two versions of `gcc` compiler and TAP API (Application Program Interface) libraries that are available from Toppro's website, <http://www.topfield.com.au>. One is *Linux* version, and the other is *Cygwin* version.

Cygwin is a Unix-like environment and command-line interface for *Microsoft Windows*.

Your TAPs will be run with the following conditions:

- A TAP's file extension must be *tap*; if it has any other extension name, it will be ignored.

- TAPs must be situated in the Program Files folder; if they are placed in any other folder, they will be ignored.

Before you start the TAP, you will need to load the TAP file into the program file menu by doing the following:

1. Press the  button and then the  or  button to display the program files list.
2. Insert the USB with the TAP file into your unit.
3. On the remote, press the  button. Press the  on top of the name of your external hard disk.
4. Use the navigation keys to highlight the TAP file.
5. Press the yellow button on top of the file.
6. It will prompt you that the file will be moved into the program files folder. Press .

NOTE

If you would like the TAP to start when the unit starts up, move the TAP file into the Auto Start folder in the Program Files menu.

To run a TAP in the digital receiver, take the following steps:

1. Press the  button and then the  or  button to display the program files list.
2. Place the highlight bar on a program file you want to run, and press the  button to start it up.
3. If it is a running-in-the-background program, its entry in the list gets marked in green when it starts. You may have several programs run in the background at a time.
4. To stop a program running in the background, place the highlight bar on its entry in the list, and press the  button; otherwise you can stop it with the  button.



The figure on the left is a screenshot of *ScreenCapture.tap*, with which you can capture screen in *bmp* format from the digital receiver. Not only this TAP but a lot of sample TAPs are available in the TAP API.

By the way, the digital receiver will not show the list of the screenshots saved by the *ScreenCapture.tap* because *bmp* files are supposed to be ignored by the digital receiver. So, to view the screenshots, you need to transfer them to your computer via FTP.

If you want to have a program automatically run when the digital receiver starts up, then move the program file to the *AutoStart* folder. If you want to abort the execution of it, press the **@** button at start-up.

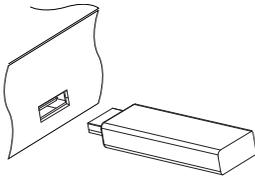
Chapter 11

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 Toppro website, <http://www.topfield.com.au>.

11.1 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 Toppro 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 **Installation > Firmware Upgrade > USB Firmware Upgrade** menu, and the files in the USB memory will be listed.

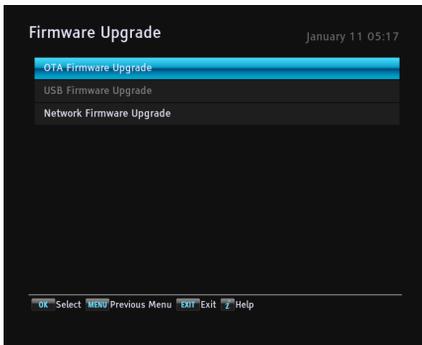
5. Place the highlight bar on the right firmware file and press the **OK** button, and a countdown will be displayed on the front display of the digital receiver.
6. When the message of 'END' appears, restart the digital receiver.

11.2 From the firmware server via the Internet

You can update the firmware from the firmware server which is being run by Toppro via the Internet. Make sure that the digital receiver is connected to your router before configuring the network settings on the digital receiver.

NOTE

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



Select the **Installation > Firmware Upgrade > Network Firmware Upgrade** menu. You should see a screen like the left figure.

To enable the digital receiver to update the firmware automatically when a new firmware is available, set the **Automatic Upgrade** option to **Enable**. Otherwise if you want to do that by yourself, select the **Start firmware upgrade** option, then you get asked for confirmation. With the choice of **Yes**, it will check up whether a new firmware is available, and it starts firmware update if any.

Appendix A

Troubleshooting

List of Symptoms

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No picture through RF loop out to my Television	88
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Cannot view guide content	88

Before you call a repair person for your Toppro product, check the list of possible problems and solutions.

No power/No front display

- Make sure the main switch on the back of Toppro is switched to ON.
- Properly insert the power plug into the power socket.
- If the power outlet is controlled by a switch, make sure the wall switch is ON.
- Remove the power plug from the wall and wait 10 seconds, then plug back in.
- Plug another appliance into the outlet, if the other appliance doesn't work then have a qualified electrician repair the outlet.
- Plug the Toppro into a different outlet.

I have connected my Toppro and get no picture on the Television

- Check that you have connected the cables from the Toppro to the TV
- The connection must be via an AV output out of the Toppro to an AV input of the TV.
- Check that you are in the correct AV setting on the TV. For example if you connected the Toppro box to AV2 on the TV make sure you set your TV with the TV remote to AV2 before the Toppro can be used.

- Press the **(VF)** button on the remote and set to the correct resolution.
576i/576p/720/1080i/AUTO. You may need to press the **(VF)** button multiple times to cycle through all the different formats. All formats will be displayed on the front screen of the Toppro.

When the Service Scan is finished I get zero channels

- Make sure the antenna is plugged into the wall socket.
- Check that there is a signal coming from the antenna by connecting it directly to the TV or another device.
- You must have signal strength between 50%–90%
- Indoor antenna is not recommended as the signal is not enough to display channels when a service is scanned.

I get a pixilated image on the my Television

- Check the plug on the Toppro and on the wall making sure that it's a tight connection.
- Check that there is a signal coming from the antenna by connecting it directly to the TV or another device.
- You must have signal strength between 50%–90%

Can not receive or adjust sound through Toppro unit

- Adjust volume using the **(VOLUME-)** and the **(VOLUME+)** on the Toppro Remote.
- Use the TV remote to adjust the sound to approx 50% then use the Toppro remote to adjust volume.
- Check the connection between the TV and the Toppro product.
- Make sure you are in the correct AV on the TV

Can not rewind live Television

- Make sure that Timeshift is enabled, **Settings > Recording**.
- Check that Hard Disc Drive is working by playing back a previous recorded program.

The Free to Air Guide is blank

- Move to every channel and give the recorder a few minutes to populate the guide for each channel.
- Factory reset and re scan all the services in the **INSTALLATION** part of the **MENU**.
- Check the broadcaster sends a Free to Air guide for that service.

I can not set the correct aspect ratio

- Change the aspect ratio on the Toppro box by pressing the **[AR]** button on the Toppro remote. 16:9/4:3
- Check the aspect ratio on your TV. Refer to the user guide of your TV for information about this procedure.
- Check the broadcast of the program. For example some programs are only broadcasted in 4:3

Lost part of my show because it went longer then the recording time set

- When setting a Reservation add an extra few minutes to the Duration to cover for programs going over the predicted time.
- When recording off the Free to Air guide press the  button twice on the Toppro remote and adjust the duration to cover for programs going over the predicted time.
- Adjust the Padding in the **Settings > Recording > Time Padding of Timer Recording**. Adjust according to personal preference.

Can not get a network connection

- Make sure you are using a Router and not a Modem.
- You can only establish a connection by using the Network cable directly to the Toppro unit.
- Your router settings are not set up correctly in the Toppro.
- The router is not switched on.
- Check connection of Ethernet cable, making sure they are a tight fit in the socket.
- Re start Router and try again.
- You are not using a Topfield USB wireless dongle.

Can not connect my external HDD

- Make sure external HDD is formatted in NTFS, then re-formatted to the system when it is connected. This will ensure that the hard drive is ready to use and the full capacity is available.
- The HDD must not be more than 1000 GB (1 TB)
- You must make sure that the external HDD is self powered

Can not get the time to show on the front of the Toppro

The Toppro is designed to save power when in standby mode as per the Australian MEPS standard. This reduces power consumption to less than 1W when in STAND BY. This can be adjusted in the **Settings > Miscellaneous > Standby Mode**, from Passive to Active.

I am unable to get out of the MENU

- With all Toppro product you are unable to exit from the MENU unless channels have been tuned in to the recorder.
- Check the antenna connection.

No picture through RF loop out to my Television

To output an RF signal in standby mode the recorder must be set to Active. This can be adjusted in the **Settings > Miscellaneous > Standby Mode**, from **Passive** to **Active**.

My Toppro recorder doesn't go to standby after instant recording (non timer recording)

When an instant recording has been activated the recorder will need to stay on until the recording finishes. To place the recorder into Standby after the recording has finished press the **Power** button on the remote during a recording and the following message is displayed "REORDER NOT FINISHED, DO YOU WANT TO POWER OFF?" move green tab to **YES** and leave recorder **ON**, do not execute the function. The television may be turned off and the recorder will go into standby (sleep mode) when the recording has finished.

Cannot view guide content

Perform a factory reset and service search to allow the unit to restart the guide. Be sure to save your settings in the **Installation** section before applying a factory reset.

Appendix B

Universal Remote Control

The universal remote control allows you to operate the most important functions such as power on/off and volume control on your television, audio-video receiver, or DVD player. For the use of buttons, refer to Table B.1. To be able to control the device, you must adapt the remote control to the device first.

Take the following steps:

1. Turn on the device you want to operate.
2. Point the remote control at the remote sensor on the device.
3. Hold down the **OK** and device button simultaneously for two seconds until the light flashes on. For example, if you want to operate your television with the remote control, press the **OK** and **TV** buttons simultaneously.
4. Find the manufacturer of the device from the codes list.
5. Enter the three-digits code you have found for your device and press the **OK** button.
6. If the setting is finished correctly, the light blinks twice and the device will be turned off. Otherwise, repeat from the step 2.

If you cannot find a code for your device, do as follows:

1. Turn on the device you want to operate.
2. Point the remote control at the remote sensor on the device.
3. Hold down the **OK** and device button simultaneously for two seconds until the light flashes on. For example, if you want to operate your television with the remote control, press the **OK** and **TV** buttons simultaneously.
4. Press the **CHANNEL+** or **CHANNEL-** button until the device turns off.

If you want to find out the number which you set for your device, do as follows:

1. Hold down the **OK** and device button simultaneously for two seconds. For example, if you want to know the number which you set for your television, press the **OK** and **TV** buttons simultaneously.
2. Press the **i** button. Then the light will show the number with blinks. For example, if the number is 3, the light will blink three times. In case of 0, the light will blink ten times.

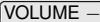
You can reset the settings by doing as follows:

1. Hold down the **TV** and **0** buttons simultaneously for more than five seconds.
2. Each device button blinks three times in the following order: **PVR** → **DVD** → **AUX** → **TV**
3. After that, all settings will be reset to the manufacturer's factory settings.

NOTE

Some buttons may not work properly depending on a device. If your device code is not listed on the following pages, you will not be able to use this remote as a universal remote for your specific device.

Table B.1: Operating buttons

PVR	TV	DVD	AUX
	Power on/off	Power on/off	Power on/off
	Volume up	Volume up	Volume up
	Volume down	Volume down	Volume down
	Mute	X	Mute
	X	X	Channel up
	X	X	Channel down
	0	0	X
	1	1	1
	2	2	2
	3	3	3
	4	4	4
	5	5	5
	6	6	6
	7	7	7
	8	8	8
	9	9	9
	TV INPUT	X	X
	X	Up	X
	X	Down	X
	X	OK	X
	Left	Left	X
	Right	Right	Right
	X	Menu	X
	X	Guide	X
	X	Exit	Exit
	X	Stop	X
	X	Rewind	X
	X	Pause	X
	X	Play	X
	X	Fast forward	X

B.1 Code list for television sets

A			
ACCENT	049, 063	ANITECH	049, 063, 076, 195, 407
ACEC	112	ANSONIC	045, 049, 063, 107, 112, 195, 210, 242, 391, 413, 421
ACURA	195	APOLLO	165
ADMIRAL	065, 076, 163, 171, 190, 307, 324, 369	ARC EN CIEL	029, 034, 074, 182, 186, 415, 424
ADYSON	379	ARCAM	029, 379, 424
AGASHI	076, 379	ARDEM	392
AGEF	324	ARISTONA	049, 050, 063, 065, 079, 112, 158, 160, 188
AIKO	049, 063, 076, 102, 141, 172, 195, 225, 379	A.R.SYSTEM	049, 063
AIM	049, 063	ARTHUR MARTIN	075, 107, 127, 133, 136, 139, 148, 153, 307, 425
AIWA	376, 377	ASA	003, 020, 065, 078, 080, 091, 117, 146, 171, 197, 235, 307, 319, 324, 341, 375, 406, 408
AKAI	019, 049, 050, 055, 063, 076, 102, 107, 123, 133, 139, 141, 150, 172, 174, 182, 195, 209, 225, 326, 333, 379, 428, 432, 433, 437	ASBERG	049, 063, 407
AKIBA	006, 049, 063, 123, 380	ASORA	195
AKITO	049, 063, 106	ASTRA	195
AKURA	006, 049, 076, 096, 123, 195, 419, 426	ASUKA	006, 050, 076, 123, 379
ALARON	042, 334	ATLANTIC	049, 050, 063, 113, 236, 242, 379
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ALLSTAR	049, 063	AUSIND	075, 090, 407
AMPLIVISION	113, 379, 421, 425	AUTOVOX	050, 071, 078, 079, 080, 083, 090, 147, 156, 236, 254, 305, 319, 323, 324, 379, 407, 413, 416
AMSTRAD	004, 011, 049, 063, 076, 123, 131, 172, 195, 225, 426	AWA	018, 049, 063, 131, 195, 206, 320, 379, 426, 433
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 BEST 213, 421
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 BINATONE 379
 BLACK STAR 413
 BLACKTRON 006
 BLACKWAY 006
 BLAUPUNKT 019, 053, 057, 060, 113,
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 BLUE SKY 006, 049, 063, 123, 195,
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 BLUE STAR 006
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 BRANDT ELECTRONIQUE 029, 034, 074, 182, 186
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CROWN	049, 063, 154, 163, 170, 195, 209, 232, 372, 407, 419, 421, 431	DUAL	049, 050, 063, 095, 107, 139, 156, 168, 182, 242, 243, 379, 414, 416, 423, 424
CS ELECTRONICS	031, 123, 379, 413	DUAL-TEC	195, 168, 050, 040
CTC	413	DUMONT	045, 065, 080, 102, 139, 146, 319, 324, 339, 341, 375, 379, 406, 408
CTC CLATRONIC	045	DUMONT-FINLUX	020, 045, 061, 075, 078, 091, 104, 117, 147
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CYBERTRON	123	DYNATRON	049, 063
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DAENYK	042	ELBE	049, 063, 107, 121, 123, 172, 194, 210, 242, 337, 368, 369, 391, 411, 421, 435
DAEWOO	063, 123, 140, 145, 161, 193, 195, 379	ELBIT	111
DAINICHI	123, 379	ELCIT	045, 046, 047, 062, 065, 104, 107, 150, 168, 324, 413
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DANSETTE	426	ELECTRO TECH	195
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DATSURA	209	ELEKTRONSKA	318
DAWA	049, 063	ELG	049, 063
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DE GRAAF	023, 107, 122, 139, 209, 307	ELITE	031, 049, 063, 123
DECCA	049, 063, 102, 106, 111, 120, 200, 331, 379	ELMAN	045, 168
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182, 195, 218, 225, 232,
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C		LIFETEC	076
CINE ULTRA	082	LOGIX	083
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