



DVB-T

ITDTR01P

USER'S MANUAL

DIGITAL TERRESTRIAL RECEIVER



www.itek-europe.com

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1. INTRODUCTION

Tune in the Digital Terrestrial Television connecting your T.12 to your TV and record your favourite programs in a easy and fast way.

1.1. Features

- Handy and intuitive user interface that supports the display of multilingual characters.
- Electronic Program Guide (EPG), Teletext and Parental Lock.
- Compatible with PAL, NTSC and SECAM TV systems.
- Channel manager mode to add, memorize favourites, sort and delete channels.
- TV programs recording function on USB device or SD/MMC memory card.

1.2. Safety Information

To ensure reliable and safe operation of this equipment, please read carefully all the instructions in this user guide, especially the safety information below.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



The lightening flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Please, carefully study this manual and always keep it available. There are, however, some installation and operation precautions which you should be aware of:

- (1) **READ INSTRUCTIONS:** All the safety and operating instructions should be read before the product is operated.
- (2) **RETAIN INSTRUCTIONS:** The safety and operating instructions should be retained for future reference.
- (3) **HEED WARNINGS:** All warnings on the product and in the operating

instructions should be adhered to.

(4) FOLLOW INSTRUCTIONS: All operating and use instructions should be followed.

(5) CLEANING: Unplug this product from the wall outlet before cleaning.

Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

(6) ATTACHMENTS: Do not use attachments not recommended by the product manufacturer as they may cause hazards.

(7) WATER AND MOISTURE: Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub - in a wet basement or near a swimming pool and the like.

(8) ACCESSORIES: Do not place this product on an unstable cart, stand,



tripod, bracket or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care: Quick

steps, excessive force and uneven surfaces may cause the product and cart combination to overturn.

(9) VENTILATION: Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

(10) POWER SOURCES: This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

(11) GROUNDING OR POLARIZATION: This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

(12) POWER-CORD PROTECTION: Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

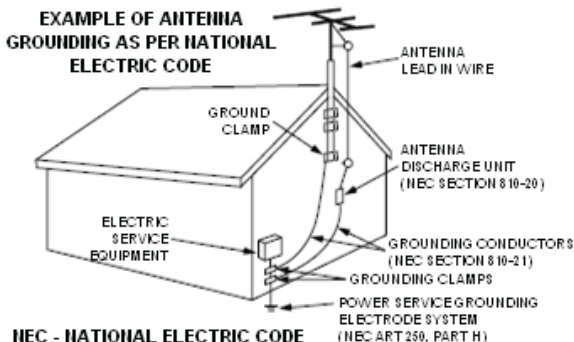
(13) PERCEPTIVE ATTACHMENT PLUG: The product is equipped with an attachment plug having overload protection. This is a safety feature.

See instruction manual for replacement or resetting of protective device.

If replacement of the plug is required, be sure the technician service has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

(14) **OUTDOOR ANTENNA GROUNDING:** If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode:

(15) **LIGHTNING:** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.



(16) **POWER LINES:** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

(17) **OVERLOADING:** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

(18) **OBJECT AND LIQUID ENTRY:** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

(19) **SERVICING:** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

(20) **DAMAGE REQUIRING SERVICE:** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions.

Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance – this indicates a need for service.

(2) **REPLACEMENT PARTS:** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock, or other hazards.

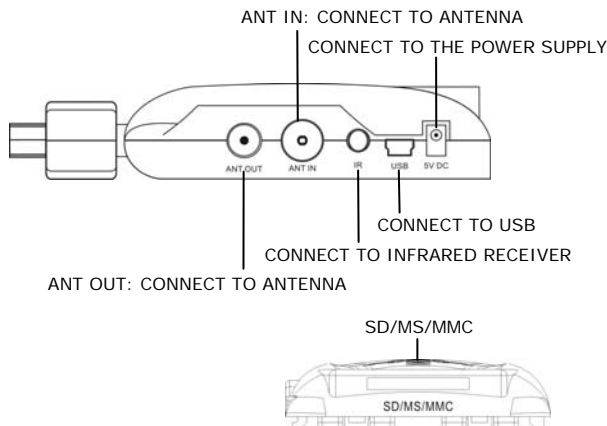
(22) **SAFETY CHECK:** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

(23) **WALL OR CEILING MOUNTING:** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

(24) **HEAT:** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.






2. DEVICE OVERVIEW

2.1. Main Unit



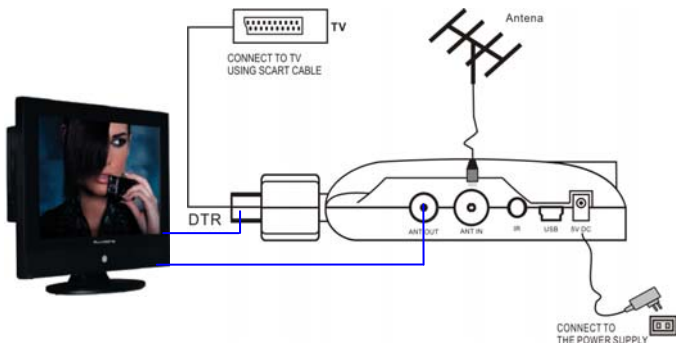
2.2. Remote Control Unit



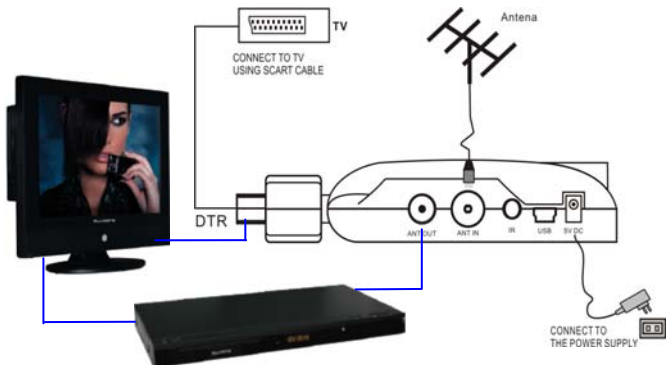
key	function	key	function
	Turn ON/OFF the receiver	EPG	Display EPG (Electronic Program Guide)
	Mute audio output	INFO	Display channel info
0~9	Numerical pad	AUDIO	Changing the audio mode
TV/RADIO	Switch TV or Radio channels	TXT	Switch to teletext mode
←PR	Go to previous program	SUBTITLE	Display subtitles
MENU	Display Main Menu	FAV	Display Favourite list
EXIT	Exit current menu		Enter the mode of sample images on the screen .
PR+, PR-	Changing the channel up or down the channel you are watching	PAUSE	Press once to pause. Press again to return to normal
	Adjusting volume	RECORD	Press this key start to record the program
OK/List	Execute the selected option in the menu screen Or enter the option.	STOP	Stop to record program
	Function buttons, Selection of function in the teletext.		

3. SETTING UP

3.1. Connecting to a TV



3.2. Connecting to a DVD/VCR player



3.3 Channels Initial Installation

If this is the first time for you to use the DVB-T receiver, after pressing **POWER** button at the screen will appear the Init Install menu.



In the OSD Language item, you could set up the language of the on screen menus. At the Area item you can choose your current area, where you are going to search channels.

Once the OSD language and area are selected, press **OK/LIST** button and select YES on the popup window to start channels installation. Wait a moment while the unit completes the channels searching process. The channels founded will be stored automatically

4. DVB-T BASIC OPERATION

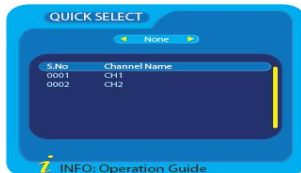
Press **PR+** or **PR-** in your remote control unit to select a channel or just enter the channel number with the numerical pad.

Press the **TV/RADIO** button to switch between TV and radio channels. To close the channels list press **EXIT**.

Use the buttons **-▲** or **▲+** to decrease or increase the volume of the DVB-T receiver. You can silence the sound from the receiver by pressing **MUTE** button on the remote control unit.

4.1. Channel List

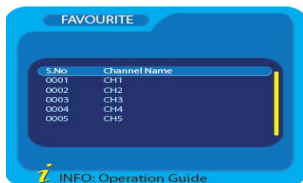
You can select the channel by using the lists you have created (see chapter 6.1. Channel Manager). Once the list has been created, press **OK/LIST** to show the channels list and press **PR+** or **PR-** to select the one you wish. Press **OK/LIST** to display it. Use **-▲** or **▲+** display the previous or next genre or press **TV/RADIO** button to switch between TV and radio channels lists. Press **EXIT** to close the channels list.



Press **INFO** to enter the operation guide while the channels list is displayed.

4.2. Favourite List

You can set your own favourite channels lists too (see chapter 6.1. Channel Manager). Press **FAV** to display the favourite list, press **PR+** or **PR-** to select a channel and press **OK/LIST** to display it. Use **TV/RADIO** to switch between TV and radio channels. Press **EXIT** to close the favourite list.



Press **INFO** to enter the operation guide while the favourite list is displayed.

4.3. Electronic Program Guide (EPG)

You can also select the channel you wish from the Electronic Program Guide (EPG). As in the channels list, the **EPG** interface displays a list of the stored channels along with information on what programmes are being broadcast. Press **EPG** to enter the **EPG** menu, press **PR+** or **PR-** to highlight a channel and the program information will be shown. Press the **RED** button to display the programs daily, the **GREEN** one to display the programs weekly, the **YELLOW** one to display info about the program you have selected and the **BLUE** button to access the timer and schedule a recording.



Use **TV/RADIO** to switch between TV and radio channels and press **EXIT** to switch to the selected channel and close the **EPG** menu.

Press **INFO** button to enter the operation guide while the EPG is displayed.

4.4. Soundtrack and Subtitles Selection

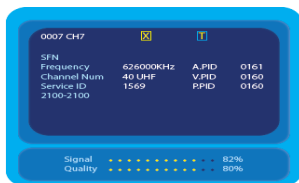
Some programs are broadcast in two or more languages simultaneously. The soundtrack language can be selected by pressing **LANG** in the remote control unit. If the program is broadcast in just one language, press **LANG** and the buttonsor ◀ to ▶ choose the audio modes between **STEREO**, **LEFT MONO** and **RIGHT MONO**.



In the same way, if a program is broadcast with one or more subtitles languages, you can display them by pressing **SUBTITLE** in the remote control unit and usingor “◀” to “▶” show the available options.

4.5. Displaying Program Information

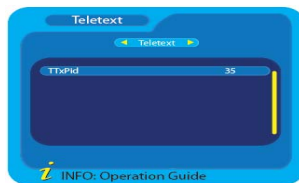
You can read the current program information by pressing **INFO** in the remote control unit. Press the button again and the frequency, bandwidth as well as signal and quality levels of the channel will be displayed. Press **INFO** once again to hide the program information window.



You can read too the program information daily and weekly by using the EPG (see chapter 4.3. Electronic Program Guide).

4.6. Teletext

Press **TEXT** and after **OK/LIST** to access the Teletext window. You can use **PR+** or **PR-** ◀ or ▶ to display the previous or next pages, or input directly the page number using the numerical pad. Use the colour buttons to short cut to the pointed pages.



Press **EXIT** to close the Teletext window.

4.7. DVB-T recording

Your **ITDTR01P** allows you to record your favourite programs and store them in a USB device you must connect to the receiver. See chapter 9. Recording to make a recording of the program you wish.

5. MAIN MENU

From the Main Menu you can activate several functions and adjust many settings as you wish. Press **MENU** button in your remote control unit (or in the main unit) and your **ITDTR01P** Main Menu will be displayed:



Press **PR+** or **PR-** to select the option you wish and after **OK/LIST** to enter. Press **EXIT** to close the menu.

6. DIGITAL TV



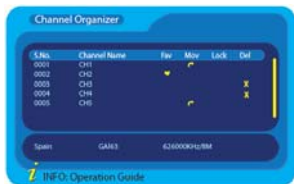
6.1. Channel Manager

In the Digital TV Menu, select Channel Manager and press **OK/LIST** to enter. In this submenu you will find the following settings:



6.1.1. Channel Organizer

The Channel Organizer submenu could manage the searched DVB-T channels. Press **PR+** or **PR-** to select the channels.



Once a channel is selected, press the **RED** button to set up the channel as the Favourite channel. Press the **GREEN** button to delete the channel. Press the **YELLOW** button to move the channel to another place in the list (select the new position you wish and press **OK/LIST**). Press the **BLUE** button to lock the channel; if you want to watch this channel later, you will need input the correct password of the parental lock.

Select a channel and press **◀** or **▶** to display the rename channels interface. Use the numerical pad and the coloured buttons to enter the new name and press **OK/LIST** button to confirm and exit the rename interface.

Press continuously **EXIT** until close the system settings menu, and the unit will update the settings automatically (deleting the channels set up as "Delete").

6.1.2. Channel sorting

The Channel Sorting submenu shows information of the channel storage, including the channel's Serial Number, Channel Name, Frequency and Bandwidth. In this submenu you may sort the channels list depending on several parameters (area, alphabetical order, LCN -Logical Channel Number-,....).



6.1.3. Channel Grouping

In the Channel Grouping submenu you could classify the stored channels. Press the direction buttons **PR+** or **PR-** to choose a channel and then press a number button from 1 to 8 to classify the channels as None, News, Science, Sports, Movies, Kids, Music or Fashion. Once the setting has been finished, press continuously **EXIT** until close the TV Digital Menu and the device will save the settings automatically.



6.1.4. Edit Channels

In the Edit Channel submenu, pressing the **RED** button in the remote control unit to add channels or press the **YELLOW** button to edit the channels.



6.1.5. Delete All

In Delete All submenu you could delete the whole channels list. Enter the correct password of the parental lock and then choose to delete TV or Radio channels.

6.2. Installation

In the Digital TV menu, select Installation and press **OK/LIST** to confirm. In this submenu you will find the following settings.

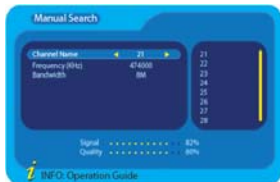


6.2.1. Area Search

Select the Area Search and press **OK/LIST** to enter the area search submenu. Select the zone and press **OK/LIST** to start to search channels according to the area setup.

6.2.2. Manual Search

Select Manual Search and press **OK/LIST** to enter the manual search submenu. Select a frequency and press **OK/LIST** to start to search channels in the selected frequency.



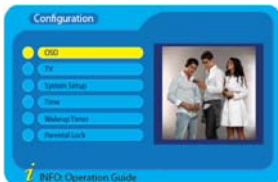
6.2.3. Automatic Search

Select Automatic Search and press **OK/LIST** to enter the automatic search submenu. Select a start frequency, an end frequency and a bandwidth and press **OK/LIST** to start to search channels in the selected range.



6.3. Configuration

In the Digital TV Menu, select Configuration **OK/LIST** to enter. In this submenu you will find the following settings.



6.3.1. OSD

Select OSD and press **OK/LIST** to enter the information settings submenu.



OSD: Pressing ◀ or ▶ you can set up the colour of the menu.

Hora en OSD: Pressing ◀ or ▶ you can activate or deactivate the Time Display function (if it is active, the time will be displayed on the upper right corner of the screen).

OSD Timeout: You can set the staying time of the OSD texts on the screen.

OSD Trans: You can set the transparency of the menu.

OSD Language: You can set the language of the menu.

1st Audio Language: Set the language you wish for the audio.

2nd Audio Language: Set a alternative language for the audio.

6.3.2. TV

Select TV and press **OK/LIST** to enter the video output settings menu.



Display Mode: Pressing ◀ or ▶ you can change the video standard.

Aspect Ratio: Pressing ◀ or ▶ you can switch the scale of the screen between 4:3LB, 4:3PS and 16:9.

Video Out: You can choose between composite video (CVBS) and RGB outputs.

Brightness, Contrast, Hue and Saturation: Choose your desired values for these settings.

6.3.3. System etup

Select System setup and press **OK/LIST** to enter the general settings submenu.

EQ Setup: Adjust the audio equalizer setup.

Surround: Pressing ◀ or ▶ you can change the sound's surrounding effect setup.

Active Antenna: Select the OFF option to this setting by default.



LCN: Once the search has been finished, active the LCN function to arrange the channels according to the LCN (Logical Channel Number).
Area: Select the zone to search the channels.

6.3.4. Time

Select Time and press **OK/LIST** to enter the system's time settings submenu.



Timer Mode: Select Auto to use the DVB-T program time (you can set up the GMT Offset and the summer time). Choose Manual to set up manually time and date.

Date: Use the numerical pad to enter manually the current date.

Time: Use the numerical pad to enter manually the current time.

GMT Offset: Use ◀ or ▶ to set up the relative time difference to the Greenwich Time.

Summer Time: Use ◀ or ▶ to enable or disable the automatic switch to the summer time.

6.3.5. Wakeup Timer

Select Wakeup Timer and press **OK/LIST** to enter the scheduler settings submenu. See chapter 9.1 Timer Recorder Function to schedule your **ITDTR01P** to do recordings.

6.3.6. Parental Lock

Select parental Lock and press **OK/LIST** to enter the channels lock settings submenu.



In this submenu you can set up your own password for channels locking. The password of the Parental Lock is 0000 by default. Input the correct old password twice before trying to set up a new password.

6.4. Software Upgrade

Contact our customer's attention service, or visit our website www.*****.com to check if there are software updates available for this product.

6.5. Factory Default

In the Digital TV menu, select Factory Default and press **OK/LIST** to recover the default settings of the device when it left the factory. Enter the correct password of the parental lock, select YES and press **OK/LIST** to reset all the DVB-T settings to their defaulted status.

6.6. Version

In the Digital TV menu, select Version and press **OK/LIST** to find information about the software and hardware versions of the DVB-T receiver.

7. MOVIE, MUSIC AND PHOTO

Your **ITDTR01P** is equipped with a simplified function multimedia player that allows you to play certain kind of files. You can connect a USB device or a SD/MMC memory card to your **ITDTR01P** and play music in MP3 format, images and some kind of video files (as the files recorded by your **ITDTR01P**). You must access the Main Menu by pressing "MENU" button to browse and play the multimedia files stored in the external memory. Select Movie, Music or Photos according to the type of file you want to play and press **OK/LIST** to confirm.

Select the device and the folder where the files are stored and press **OK/LIST** to start to play. Press **EXIT** if you want to return to the file browser.

NOTE: The USB multimedia player is an additional feature of this DVB-T receiver, therefore only the essential playback functions will be available (Play, Pause, Stop,...). When playing some MPEG-4 video files (AVI) you may find some AV delay due the high quantity of resources that video decompression consumes from the system. The range of compatible video formats is limited, please use a video player to play specific video files.

8. GAMES

Select in the Main Menu the Games option to access the available classic games. Select the one you wish and press **OK/LIST** to enter.

9. RECORDER

You can do recordings of the DVB-T programs you wish. The recordings will be stored in the USB device you have connected to your **ITDTR01P** previously.

When the DVB-T program starts to be broadcasted, press **RECORD** in the remote controller to start to record. Press **RECORD** again to stop the recording and select YES to confirm the end of the recording. The recorded programs will be stored in the PVR folder of the root catalogue of the memorizer (if there is no this folder in the memorizer, the player will create one automatically).

9.1. Timer Recorder Function

You can schedule your **ITDTR01P** to start a recording anytime you must set previously. To adjust the Wakeup Timer, press **MENU** to enter the Main Menu and select the Recording option (you can also access this function by selecting Digital TV-Configuration-Wakeup Timer or from the EPG interface by pressing the **BLUE** button). The following options will be shown:



Timer Number: Is the serial number of waking up the mission in fixed time. The player can set up 8 missions with the fixed time, with serial numbers from 1 to 8.

Timer Mode: Is the period enactment of waking up the missions in the fixed time. You could choose just once, once a day, once a week or once a year.

Wakeup Mode: Is the program mode. You could choose to turn on or turn off the unit, switch to a certain channel or send a message at the screen.

Wakeup Channel: It is the channel that must be recorded at the selected time.

Wakeup Date: It is the day when the wakeup timer must be active to start to record. Pressing the direction buttons left or right you can open the calendar to choose the date.

On Time: It is the hour when the wakeup timer must be active. You can set this time with the numerical pad.

Duration: Is the duration of being waken up according to the channel mode (00:05 means to wake up to the reserved channel and broadcast for 5 minutes, and then switch back to the previous channel).

Once you have finished the setup, press **OK/LIST** and exit the Digital TV menu to confirm the changes.

9.2. Recording Files Playing

Press **FILELIST** to play the files you have recorded with your **ITDTR01P** and the recordings list will be displayed showing the source channel as well as the recording date. Select the file you wish and press **OK/LIST** to play.

Press **EXIT** to leave the recordings browser.

You can also access the recording files through the Main Menu of your **ITDTR01P**. Press **MENU** and select the Movie option. After, select the USB device where you have stored your recordings and enter the PVR folder. Select the recording file you wish and press **OK/LIST** to play.

10. DISK MANAGER

Select in the Main Menu of your **ITDTR01P** the Disk Manager option to manage the recording files you have stored. Select the file you wish and press the **GREEN** button continuously and the available options will be shown: Delete One, Delete All or Play. Press **OK/LIST** over the option you wish and select YES to confirm this operation.



11. TROUBLE SHOOTING

The device does not turn on

Check the main lead is connected correctly.

No signal found

Maybe the antenna is disconnected or damaged. Check the antenna status.

It is possible that you are out of digital signal area. Please, contact with the dealer.

Scrambled channel message

The channel is scrambled. Select an alternative channel.

The remote control unit does not work

Maybe the IR receiver is obstructed. Aim the remote control unit directly to IR receiver.

Replace remote controller batteries if they exhausted.

You have forgotten the channel lock code

Reinstall the channels to cancel the channel lock.

12. Appoint for Record function

- Can make the appointment record of certain programs via EPG or UI.
- Supports up to 8 kinds of appointments for recording.

- Supports seasonal appointment of recording (daily, weekly, yearly) and one-off appointment.
- Pops out the warning message when appointments clash.
- In standby mode, can via EPG or UI to set the appointment recording to auto-Record when power-on and auto-power off after finishing recording.

13. SPECIFICATIONS

A/V Output	Double full 21 pin SCART connector
	Real time MPEG2 MP@ML decoding
	4:3 and 16:9 video output supported
Tuner	Receiving Frequency: VHF/UHF
	Bandwidth: 7MHz & 8MHz
	One loop RF output
Demodulation	Wave Type: COFDM (Coded Orthogonal Frequency Division Multiplexing)
	Demodulation: QPSK, 16QAM, 64QAM
	Mode: 2K, 8K
	Guard Interval: 1/4, 1/8, 1/16, 1/32
Channels Search	Automatic channels initial installation
	Area search and manual search modes supported
User's Interface	Multiple OSD languages including English and Spanish
	EPG (Electronic Program Guide)
	Program information
	Teletext
USB	Supported image file format: JPG, BMP
	Supported audio files: MP3, WMA
	Supported video files: MPEG4, DIVX
SD hole	Acceptable photo cards: SD, MS, MMC
Power Supply	AC 100-240V~50/60Hz (DC 5V 1A)
power consumption	Max power consumption: 3.5W
Standby power	Standby power 0.5~0.7W
Working Temperature	-20°C a 65°C
Dimensions	76x129x25mm,

