



# FV400 DIGITAL TV RECEIVER WITH MODULATOR INSTRUCTION MANUAL





**(** 

Please read this instruction manual carefully before using your receiver





# **Table of Contents**

Introduction	1
Safety Information	2
Remote Control	
Front and Rear panel illustration	5
Connecting to a Television	- 6
Connecting to a Television and Video	7
Connecting to a Surround Sound System	
Getting Started	9
Switching on for the first time	9
Automatic channel scan	
Manual channel scan	
System Setting	11
A/V Setting	11
Antenna Power	
First Time Installation	
System Info	12
Change Pin Code	
Software Update	
Basic Operations	14
Changing Channels	14
Volume Control	
Teletext/Subtitle	
TV Format	
Pausing the current picture	16
Channel Schedule	
Channel List	
Delete a channel	
Lock/Unlock a channel	
Favourite List	
Adding channels to favourite list	
Remove favourite channels from favourite list	
Accessing the favourite channels	19
Help and Advice	20
Technical Specifications	21







### Introduction

Thank you for purchasing this product which has been designed and manufactured to give you many years of trouble-free service.

### **About This User Guide**

This user guide contains all the information you need to know about how to setup and watch available free view Channels using your set top box.

### What is Freeview?

It is the new, free digital service currently providing up to thirty digital channels, over twenty digital radio stations plus a whole new world of interactive services. It is broadcast from transmitters and is received via a rooftop aerial. Freeview works like traditional TV, but because the signals are digital you need a set top box or interactive digital TV to convert them. This means more channels can be transmitted with extra features such as interactivity and widescreen pictures.

### Accessories In the Box

Remove your Digital set top box carefully from the box ,and remove the packaging from each part.

You will find the following items:

- Digital set top box with fitted mains plug
- Remote Control with 2xAAA batteries (not installed)
- Instruction Manual



Trade Mark of the DVB Digital Video Broadcasting Project(1991 to 1996)



### Safety Information



### Safety is Important



To ensure your safety and the safety of others, please ensure you read the Safety Instructions before you operate this product.

Keep this information in a safe place for future reference. Please read all the safety information before using the product. Safety Considerations.

- Position the cables so that they cannot be walked on or pinched by items placed on or against them.
- Do not use the set top box in humid or damp conditions.
- Do not allow the set top box to get wet.
- Do not expose the set top box to dripping or splashing.
- Do not place water filled objects such as vases on top of the set top box.
- Do not place naked flame sources, such as candles, on the top of the set top box.

### Cleaning

- ALWAYS unplug the set top box before you clean it.
- Do not use liquid or aerosol cleaners.
- Clean the settop box with a soft, damp (not wet) cloth.

### Ventilation

- The slots and openings on the set top box are for ventilation. Do not cover or block them as it may cause overheating.
- NEVER let children push anything into the holes or slots on the case.

### Servicing

- There are no user serviceable parts in this set top box.
- When servicing, refer to qualified service personnel.
- Consult your dealer if you are ever in doubt about the installation, operation
  or safety of this unit.

### **Battery Disposal**

- Please ensure batteries are disposed of safely.
- Never dispose of batteries in a fire or with other household waste.
- Check with your local authority for disposal regulations.



WARNING: To reduce the risk of fire or electric shock, do not expose this equipment to water or other liquids.

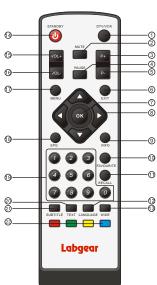








### **Remote Control**



- Remote Key Function:

  1. DTV/VCR: Used to switch between the VCR SCARTinput and the DTV output mode.

- 2. MUTE: Used to turn the sound on or off.
  3. P+: Used to change thechannels.
  4. PAUSE: Used to pause orplayback the programme being viewed
- 5. P-: Used change the channels.
- 6. EXIT: Used to return to the previous screen ormenu.
  7. OK: Used to confirm a selection within a menu.
- 8. CURSORS(Up/Down/Left/Right):: Used to move around the menu screens.
- 9. INFO: Used to display information about the channel being viewed or further informationabout the programme whenin small EPG screen.
- 10 FAVOURITE: Used to access yourfavourite channels.
  11. RECALL: Used to switch betweenthe last two viewed
- channels. 12. LANGUAGE: Used to switch between different audio
- languages that are broadcasted. 13. WIDE: Used to change the TV picture aspect.
- 14. STANDBY: Used to switch the set top box toon and off.
  15. VOL+: Used to change thevolume.
  16. VOL-: Used to change thevolume.

- 17. MENU: Used to open themain menu window.
- 18. EPG: Used to display informationabout the programme being viewed and what's onnext.
- 19. NUMBER KEYS: Used to select channel numbers or input numbers in menus.
- 20. TEXT: Used to open interactive digital teletext display if teletext available in the broadcasted stream.
- SUBTITLE: Used to switch among different subtitles that
- are broadcasted 22. COLOUR KEYS(Red/Green/Yellow/Blue): Used to operate
- different functions in TEXT screen or othermenus.

Note: SUBTITLE/TEXT/LANGUAGE may not be available for all channels.

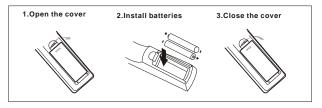






Remove the battery cover from the remote control and put 2xAAA size batteries inside the compartment.

The diagram inside the battery compartment shows the correct way to install the batteries.



### Using the Remote Control

To use the remote control, point it towards the front of the digital set top box The remote control has a range of up to 7 metres from the set top box at an angle of up to 60 degrees.

The remote control will not operate if its path is blocked.



Sunlight or very bright light will decrease the sensitivity of the remote control.

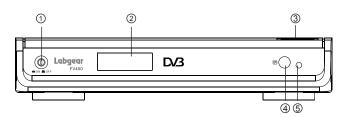






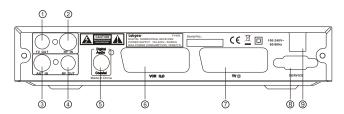
### Front Panel and Rear Panel Illustration

### 1. Front panel



- ① POWER BUTTON: Used to switch the set top box on and off.
- 2 LED DISPLAY: Used to display the time or channel information
- (3) CHANNEL UP/DOWN: Used to change channels without using the remote control.
- (4) REMOTE CONTROL SENSOR: Used to receive the signal from the remote control.
- (5) STANDBYINDICATOR: Used to visually show power state of the set top box, the green LED will be lit if the set top box is turned on and the red LED will be lit if the set top box is in standby mode.

### 2. Rear panel



- ① TV OUT: This socket will transmit the modulated A/V signal to the ANT IN socket of your TV.
- ② RF IN: This socket connects to the RFOUT socket or your external aerial if you want to loop through the external analog/digital RF signal from ANT IN to TV OUT socket. But please make sure there is no frequency conflict between this signal and internal RF modulated A/V signal, otherwise your analog TV will not receive the modulated A/V signal.
- ANT IN: This socket connects to your external aerial.
   RF OUT: This socket will bypass the RF signal to either your TV or another video system.
   COAXIAL: This socket connects to a coaxial socket on your surround sound system.
- © VCR SCART: This socket connects to either a DVD or other video system.

  TV SCART: This socket connects to your TV.

  RS-232 PORT: This socket is only used for software upgrade.

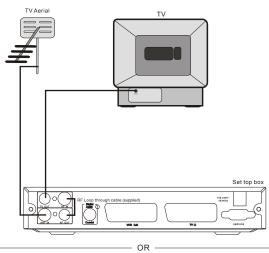
- MAINS CABLE: This is used to connect to your main power supply.



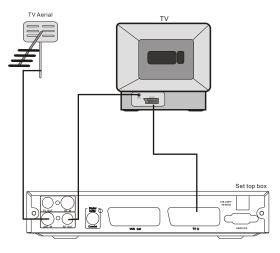




# Connecting to a Television









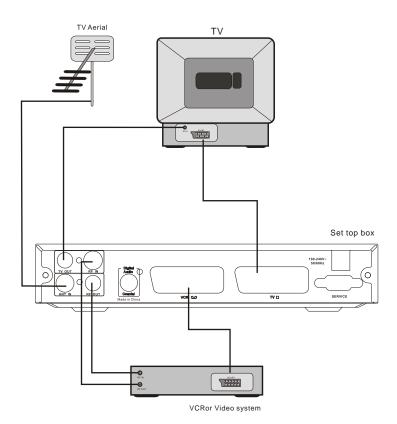








# Connecting to a Television and Video





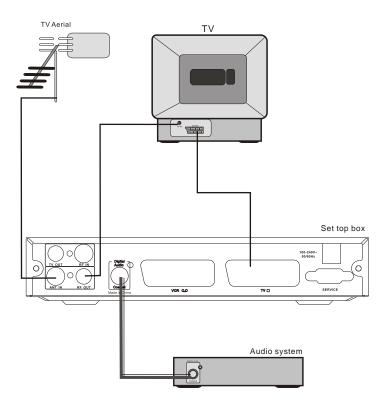








# Connecting to a Surround Sound System













### Getting Started

### Switching on for the first time

Turn on your TV set and select the corresponding AV input (with the AV key, or simular, on the television remote control).

Turn on the main power supply to the STB, the indicator on the front of the unit will turn red and then green. Instandby mode, the indicator light will be red. In working mode, the indicator light will be green.

 If you use the STB for the first time or have deleted all channels information in the STB, a "TV Setting" menu displays.



- Press the "LEFT" or "RIGHT" cursor button to choose either "16:9" or "4:3".
- Press the "OK" button to continue installation, a confirmation message window displays as right.



- Press the "LEFT" or "RIGHT" cursor button to highlight "confirm".
- Press the "OK" button to continue. "Scan Progress" menu will appear and list the channels as they are found. A bar appears below the listing panel that indicates the progress of the channel search.



 When all available radio and television channels have been found, the channel at the top of the list will be viewed.









1) Press the "MENU" button to enter the main menu of the STB.



- 2) Press the "UP" or "DOWN" cursor button to select Channel Search
- 3) Press the "OK" button to enter the sub-menu.
- 4) Highlight the "Search Type" and press the "LEFT" or "RIGHT" cursor button to select "Auto Scan".



- 5) Press the "OK" button to start searching.
- 6) Press the "EXIT" button to quit.

### Manual channel scan

- 1) Press the "MENU" button to enter the main menu of STB.
- 2) Press the "UP " or "DOWN" cursor to select "Channel Search"
- 3) Press the "OK" Button to enter the sub-menu.
- 4) Highlight the "Search Type" and press the "LEFT" or "RIGHT" cursor to select "Manual Scan".



- Press the "DOWN" cursor to select "Channel No" section, and enter desired Channel Number.
- 6) Press the "OK" button to start searching.
- 7) Press the "EXIT" button to quit.

Note: When the search is finished, the first channel of the channel list is displayed you can nowwatch digital terrestrial televison.

### System Setting

Many aspects of your STB can be set to reflect your circumstances and preference. The System Setting menu is accessed from main menu.



### A/V Setting

This menu allows the users to set TV shape, Video Output and OSD Transparency.

- 1). Press the "MENU" button to enter the main menu of the STB,
- 2). Press the "UP" or "DOWN" cursor to select System Setting,
- 3). Press the "OK" button to enter the sub-menu,
- Press the "UP" or "DOWN" button to select "A/V Setting" and Press the "OK" button to enter its sub-menu.



TV Shape options: 4:3 / 16:9 Video Output options: RGB / CVBS OSD Transparencyrange: 0~100% RF Modulator Outputfrequency range: 471.25~855.25MHz(CH21-69) in PAL-I

- Press the "UP" or "DOWN" button to select the desired itemand press the "LEFT" or "RIGHT" button to select desired setting,
- 6). Press the "MENU" button to return the upper menu or "EXIT" button to quit. Note: Please make surethere is no frequency conflict between the loop through external RF signal and internal RF modulated A/V signal. See Page 5 for detail.



This menu allows users to active the antenna power supply for external active antenna.

- Enter the System Setting menu, press the "UP" or "DOWN" cursor to highlight the Antenna Power menu.
- 2. Press the "OK" button to enter the Antenna Power menu,



- 3. Press the "LEFT" or "RIGHT" cursor to to set the status to "ON" or "OFF",
- Press the "OK" button to save the setting and quit, press the "EXIT" button to quit without save the setting.

### First Time Installation

This menu allows the user to delete all existing channels in the STB, and reset the STB to factory default setting.

- Enter the System Setting menu, press the "UP" or "DOWN" button to highlight the "FirstTime Installation".
- 2). Press the "OK" button to confirm, a confirmation window appears.



- Press the "LEFT" or "RIGHT" cursor to highlight "Confirm" icon, press the "OK" button to start first time installation.
- Or Highlight "Exit" icon, press the "OK" button to cancel the first time installation.

### System Info

This menu allows users to view the software version and hardware version of the STB.

1). Enter the System Setting menu, press the "UP" or "DOWN" cursorto highlight the SystemInfo menu.



2). Press the "OK" button to open up the information box. You can view the software version and hardware version of the STB in this box











This menu allows users to change pin code

- 1), Enter the System Setting menu, press the "UP" or "DOWN" cursor to highlight the Change Pin Code menu.
- 2), Press the "OK" button to enter the sub-menu.



- 3), Enter the old pin code using the numeric buttons (Default pin code is 888888).
- 4), Press the "UP" or "DOWN" cursor to select "New Pin Code" and enter six new numbers with numeric buttons(0~9).
- 5), Press the "UP" or "DOWN" cursor to select "Enter Again", and enter the new pin code again with numeric buttons (0~9).
- 6), Press the "OK" button to confirm the changed pin code.

### Software Update

This menu allows users to update the software version.

- 1, Enter the System Setting menu, press the "UP" or "DOWN" cursor to highlight the Software Update menu.
- 2, Press the "OK" button to enter the sub-menu,



### Auto Mode:

- Enter the software update menu, press the "UP" or "DOWN" cursor to highlight Auto Mode.
- 2), Press the "OK" button to enter Auto Mode menu,



- 3), Press the "LEFT" or "RIGHT" cursor to set the status to "ON",
- 4), Press the "UP" or "DOWN" cursor to select Start Time. Use the numeric button to enter the time in HH:MM mode.
- 5), Press the "OK" button to save the setting and quit, then the system will start auto update at the set time.



### **Basic Operations**

### Manual Mode:

- 1) Enter the Software Update menu, press the "UP" or "DOWN" cursor to highlight Manual Mode.
- 2) Press the "OK" button to enter Manual Modemenu.



- 3) Press the "LEFT" or "RIGHT" cursor to highlight "Scan" icon.
- 4) Press the "OK" button to start updating.



5) Press the "Exit" button to quit.

### Changing Channels

There are four ways of channel selection - stepping through the channel list, selection by number, from the on-screen channel list, and using the Channel Schedule.

1, Stepping through the channel list:

Press the "P+" button to browse up and the "P-" button to browse down the available channels.

2, Selection by number:

Enter the complete channel number directly via the remote control to select desired channel.

3, Selection by on-screen channels list:

You can also select the desired channel directly from on-screen channel list. This

is displayed using the STB's









- a), Press the "MENU" button to enter main menu of the STB.
- b), Press the "UP" or "Down" cursor to select "Channel List".
- c), Press the "OK" button to enter the channellist menu.
- d), Press the "UP" or "DOWN" cursor to highlight the desired channel.
- e), Press the "OK" button to preview the selected channel.
- f), Press the "EXIT" button to quit the channel list and view the channel on full screen.

### 4, Selection by Channel Schedule:

You can also select the desired channel directly from Channel Schedule. This is displayed by pressing the "EPG" button on the remote control. The Channel Schedule provides the users with a brief description of the programme on the currently selected channel and lists the current channels.

1), Press the "EPG" button to enterthe Channel Schedule.



- 2), Press the "P+" or "P-" cursor to select the desired channel, the screen switches to the programme on the currently selected channel.
- 3), Press the "EXIT" button to quit the Channel Schedule and view the channel on full screen.

### Recall

You can switch to the previously viewed channel by pressing the "RECALL" button.





### Volume Control

The volume level of the STB can be altered with the "VOL+" or "VOL-" button on the remote control.

You can silence the sound from the receiver by pressing the "MUTE" button. The sound remains muted until the "MUTE" button is pressed again or until the "VOL+" or "VOL-" button is pressed, or until the receiver is turned off and on again.

### Teletext

Press the "TEXT" button to Open/Close the interactive digital text.

### Subtitle

Press the "SUBTITLE" button to switch the programmes subtitle to On/Off.

### Displaying programme information

You can read the current programme information by pressing "INFO" button on the remote control, then the programme information table will automatically remove in 3~5 seconds.

### **TV Format**

You can change the TV picture aspectby pressing "WIDE" button repeatedly on the remote control.

When you set "TV shape" to "4:3" in the System Setting->A/V Setting menu, you can switch the TV format to "FullFrame", "Pan&Scan" or "LetterBox". But when you set itto "16:9", you can switch to "Auto", "FullFrame", "VerticalCut" or "PillarBox".

### Pausing the current picture

You can freeze the current picture by pressing the "PAUSE" button on the remote control. Press the button again to switch the current broadcast programme back on to "live".

Note: the broadcast between these two pauses will be skipped.



### Channel Schedule

From the channel schedule (EPG, Electronic programme Guide), you can change channels available, checkprogramme information, accessone-week programme schedule which details the times and programmes for the next seven days.

1, Press the "EPG" button to enter the Channel Schedule.



- 2, Press the "CH+" or "CH-" button to preview the current programme on the selected channel, and check the current programme information.
- 3, Press the "LEFT" or "RIGHT" cursor to navigate the programme lists for the next seven days.
- 4, Press the "UP "or "DOWN" cursor to highlight the desired programme.
- 5, Press the "OK" button to add a reminder, then reminder icon will appear alongside the selected programme, press the "OK" button again to remove the reminder. When the reminder programme is about to start, a reminder window will appear.
- 6, Press the "EXIT" button to quit the channel schedule.

Note: The current broadcast programme cannot be set as a reminder event.







The Channel Listpresents a list of all channels found during the channel search. From the Channel List you can watch and listen to the selected channels, delete them from the list or set a password to access the channel.

- 1), Press the "MENU" button to enter the main menu of the STB.
- 2), Press the "UP" or "DOWN" cursor to highlight the "Channel List"
- 3), Press the "OK" button to enter Channel Listmenu.



- 4), Press the "UP" or "DOWN" cursor to highlighta channel.
- 5), Press the "OK" button to preview the selected channel.
- 6), Press the "EXIT" button to quit the channel list menu and view the channel on full screen.

### Delete a channel:

- 1),Enter the channel list menu, press the "UP" or "DOWN" cursor to select a channel.
- 2), Press the "Yellow" button to delete the selected channel

### Lock/Unlock a channel:

- 1), Enter the channel list menu, press the "UP" or "DOWN" cursor to select your desired channel.
- 2), Press the "Blue" button, you are asked to enter the pincode.



- 3), Enter the correct pin code using the numeric buttons, press the "OK" button to confirm.(the default pin code is 888888)
- 4),Then a locksymbol displays alongside the selected channel, it shows that the channel has been locked.
- 5), Repeat step 1)2)3) to remove the lock symbol.
- 6), Press the "EXIT" button to quit the channellist.







### **Favourite list**

This menu allows the user to store a list of your favourite channels so that you can access them more easily. In this STB, you have five favourite lists to set potentially, each family member can have his own favourite list.

### Adding channels to favourite list:

- 1), Press the "MENU" button to enter the main menu of the STB.
- 2), Press the "UP" or "DOWN cursor to select "Favourite List".
- 3), Press the "OK" button to enter the favourite list menu.



- 4), Press the "Red" button to switch to the desired favourite list.
- 5), Press the "UP" or "DOWN" cursor to highlight the desired channel in the selected favourite list.
- 6), Press the "OK" button to add the selected channel to the favourite list.
- 7), Press the "EXIT" button to quit.

### Remove favourite channels from favourite list:

- 1), Press the "MENU" button to enter the main menu of the STB.
- 2), Press the "UP" or "DOWN cursor to select "Favourite List".
- 3), Press the "OK" button to enter the Favourite List menu.
- 4), Press the "Red" button to switch the desired favourite list.
- 5), Press the "UP" or "DOWN" cursor to highlight the favourite channel in the favourite list.
- 6), Press the "OK" button to remove the channel from the favourite list.
- 7), Press the "EXIT" button to quit.

### Accessing the favourite channels:

- 1), Press the "FAVOURITE" button to enter the favourite list.
- 2), Press the "Red" button to switch to the desired favourite list.
- 3), Press the "UP" or "DOWN" cursorto select the favourite channel in the selected favourite list.



- 4), Press the "OK" button to view the favourite channel on full screen.
- 5), Press the "EXIT" button to quit.



### **Help and Advice**

Problem	Probable cause	What to do
Standby light not lit	Mains lead unplugged Mains fuse blown	Check mains lead Check fuse
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area	Check aerial lead Check aerial Check with dealer
No picture or sound	Viewing incorrect scart output	Press the DTV/VCR button
Encrypted channel message	It is a pay perview channel	Select an alternative channel
No response from remote control	Set top box is switchedoff Remote control is not aimedcorrectly Front panel obstructed Remote control batteries inserted incorrectly Remote control batteries exhausted	Plug in and turn onset top box Aim remote control at frontpanel Check for obstructions Check batteries are inserted correctly Replace remote control batteries
Square blocks in picture or picture freezes	Aerial may not be compatable Aerial is damaged/misaligned	Check with dealer Check aerial



If none of the above suggestions seem to work, try switching your set top box off and then on again. If this does not work, contact either your supplier or a qualified repair technician. Never attempt to repair your set top box yourself.

For any further questions or information please contact our

Customer Careline: 08457 573 479 Local rate UK number, Monday to Friday 9am-5pm E-mail Support: technical@philex.com

www.labgear.co.uk





## **Technical Specification**

### **Power Supply**

Input Voltage 100-240V~ 50/60Hz.

Power Consumption Maximum 10W, Standby 5W.

### Decoder

Transmission: stream DVB-T TS

Profile Level: ISO/IEC13818-2 MPEG-2(MP@ML)

compatibleInput Rate :15MbpsMax. Video Formats: PAL, 4:3/16:9

Video Output CVBS, RGB

Audio Formats: MPEGLayer I & II 32/44.1/48KHz

### Connection

Main Power Cable Fixed Type.

Tuner 1 Antenna Input/1 RF Output.

RF Modulator 1 RF IN/1 TV OUT
Scart 1 for VCR/1 for TV

RS-232 1 for software upgrade

RCA 1 COAXIAL SPDIF digital audio output



If at any time in the future you should need to dispose of this product please note that: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advise. (Waste Electrical and Electronic Equipment Directive.)





# Labgear

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