User manual

FERGUSON

FT-8100 HD

English

FTA ONLY | DVB T TERRESTRIAL | MPEG 2 DIGITAL DECODING | MPEG 4 DIGITAL DECODING | PAL+ videoupscaling | STEREO ANALOG AUDIO | LED DISPLAY

WARNING !!!

On the USB Memory Function for FT-8100 HD model, user can make recording or playing function using by external USB devices such as USB Flash Memory Disk or external USB HDD(Hard Disk). However, below condition should be remarked before applying.

REMEMBER:

1. To use the external USB device, the device has to be supported by USB 2.0. In case of the USB flash memory disk for recording, we suggest to use USB2.0 by SLC type with **writing speed over 9.0MB/s for stable recording and playing**.

2. Please make sure the USB device condition is set as FAT32 before using. To make FAT32 condition, user can make format function on their personal PC.

3. External hard drives HDD should contain their own power supply unit.

CAUSION

1. Please do not remove the external USB device from the receiver during the recording or playing in USB mode. Unexpected action could make damaged condition for either the receiver and the external USB device.

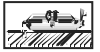2. Do not touch with wet hand in any cases.

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SAFETY INSTRUCTIONS

Please observe all warnings and instructions on the equipment and contained in these operating instructions. You must install the dish with correct direction and angle.

Please carefully read this user's manual before using the receiver.

Please place the receiver in horizontal and stable conditions, keeping it away from vibrating.

To avoid electric-shock hazards, do not open the cabinet, refer servicing to qualified personnel only. If cabinet is opened warranty will be invalid.

If device is moved from warmer place to a colder one some problem might occur. Please switch off the receiver and turn it on after 1 or 2 hours.
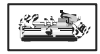
Please switch off completely the receiver during thunder, during abnormal phenomenon, before cleaning it and in case it remains out of service for a long period.

Keep the receiver away from flower vases, tubs, sinks, etc., in order to avoid damaging the equipment. Do not touch power supply with wet hands.

Do not expose the receiver under the sunlight. And keep it away from the heat source or humid environments. Do not block ventilation holes of the receiver so that air can circulate freely.

Don't put any objects on the receiver.

Be sure to turn the receiver off and disconnect the AC power cord before cleaning the receiver surface. If the surface is dirty, wipe clean with a cloth which has been dipped in a weak soap/and/water solution and wrung out thoroughly, and then wipe again with a dry cloth.

Do not connect cables while power is plugged.
Do not use damaged cables for connections: you could cause fires.
Please switch off completely the receiver while making all connections.
The product purchased is a sophisticated electronic device which is not suitable for children under 18 years.
We do not assume responsibility for damages caused to people or object, deriving from use of the device made by people under 18 years.

SOFTWARE FOR DOWNLOADING

Ferguson has used all the available means to deliver to its users software updates guaranteeing the best possible parameters of the satellite television receivers. Ferguson reserves the right to make corrections, changes or modifications of the software used in the receiver on any basis whatsoever and without prior notice. The current version of the software is available on the following website http://www.ferguson-digital.eu

USER MANUAL

Ferguson has used all the available means to ensure the latest information regarding its products. Ferguson does not give a warranty regarding the contents of this User Manual and waives any implied warranties regarding market value or fitness for specific purposes. The information contained herein provide guidelines allowing the operation and maintenance of the receiver.

Ferguson reserves the right to make changes, corrections or to translate the User Manual without giving prior notice of such changes. Therefore, it is recommended that users visit our website regularly to receive the latest information.

SYMBOLS USED ON THE RECEIVER

The Digital Video Broadcasting logo.
This logo tells you that this receiver is compliant with the DVB standards.

The caution risk of electrical shock – do not open symbol
This symbol tells you that you are not allowed to open the receiver. Only authorized (service) technicians are allowed to open the box.

The CE mark.
This mark tells you that the receiver is following the provisions of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to the electromagnetic compatibility and the provisions of Council Directive 73/23/EEC and 93/68/EEC on the approximation of the laws of the Member States relating to low voltage and electrical safety.

The double insulation symbol.
This symbol tells you that the receiver is electrically safe within the normal use of the receiver as stated in the safety chapter.

Environment protection first!
✓ Your appliance contains valuable materials which can be recovered or recycled.
✓ Leave it at a local civic waste collection point.

GENERAL INFORMATION

This digital terrestrial receiver is a highly cost-effective digital terrestrial receiver integrated. It provides big channels storage with fast searching. The receiver is definitely one of the best choices to deliver your digital life.

1. Main Features

- Fully conforms to MPEG4, MPEG2 and DVB-T standard.
- Separate TV/Radio List & Favourite Group List
- Auto & manually scan all available TV and Radio channels
- PAL-NTSC-SECAM Auto-conversion system
- Supports logical channel number (LCN)
- Supports Teletext and Subtitles
- Advanced Electronic Program Guide (EPG)

2. Unpacking

Unpack the receiver and check to make sure that all of the following items are included in the packaging.
- ✓ 1 x Remote Control Unit
- ✓ 1 x User's Guide
- ✓ 1 x Digital Terrestrial Receiver

3. General Operation of STB

Throughout this manual you will notice that the everyday operation of your STB is based on a series of user friendly on screen display and menus. These menus will help you get the most from your STB, guiding you through installation, channel organizing, viewing and many other functions.
All functions can be carried out using the buttons on the RCU, and some of the functions can also be carried out using the buttons on the front panel.
Please be aware that new software may change the functionality of the receiver.
Should you experience any difficulties with the operation of your unit, please consult the relevant section of this manual, including the Problem Shooting, or alternatively call your dealer or a customer service adviser.

NOTE:
Please be aware that new software may change the functionality of the receiver. The photo and the function explanation involved in this specification is for reference only. If there is any mistake, please refer to the entity.

INSTALLATION OF STB

1. Front Panel

【POWER】Press to switch between ON and OFF modes.

【CH-】Move cursor or channel down

【CH+】Move cursor or channel up

【DISPLAY SCREEN】Display the channel number and status. Power indicator. Signal indicator.

【USB】USB for update software

2. Rear Panel

【ANT IN】Aerial signal input

【RF OUT】Signal loop output

【S/PDIF】Digital audio output.

【HDMI】Connects to the HDMI input on your TV set

【VIDEO】Connects to the video channel of TV

【R/L】Provides the stereo audio output to TV or other equipments

【YPbPr】Provides a component video output to TV or other equipments.

【TV】Connect to TV using SCART cable

【VCR】Connect to VCR using SCART cable.

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REMOTE CONTROLLE

Due to standardization fact most of Ferguson units is using the same remote control unit. That is why NOT all keys are being used by this STB model!!

POWER
   Turns the Receiver ON/OFF.
TV/RADIO ⌨
   Switches between TV and Radio modes.
MUTE ◁
   Selects the sound ON/OFF.
BACK
   Returns to the previously viewed channel.
EPG
   Electronic Program Guide, displays EPG.
MENU
   Displays the menu on the screen.
FORMAT ▢
   Selects various video aspect ratio.
INFO ⓘ
   Displays the program information box on the screen.
EXIT
   Returns to the previous menu and the screen.
OK
   Shows the channel list or selects an item on the menu.
VOL +, VOL–
   Adjusts the sound volume (increase/decrease).
CH +, CH –
   Turns to the next or previous channel.
TEXT
   Shows the TELETEXT on the screen if the TV can be available.
AUDIO
   Selects the audio track for the current channel if applicable.
SUB.T
   Selects the subtitle language for the current channel if applicable.
FIND
   Quick Find channel function.
EDIT
   You can edit the current channel information.
OPT *(option)*
   To list the reserved programs schedule.
USB/PVR
   Not used in this model.
FAV ⍟
   Displays the favorite channel list.

REC   - record current service or set stop recording time when recording.
STOP   - stop playback when play multi-media or set stop recording when recording.
PAUSE - pause live TV or multimedia playback in playing mode.
PLAY   - return to normal speed playback in paused mode.
REW   - fast backward
FF   - fast forward

PG DOWN, PG UP
   To move faster on any list.

1. Connection Diagram

The following figure shows cable connections required for TV and other related electrical equipment. If you need any assistance for specific equipment connection, please contact your local dealer.
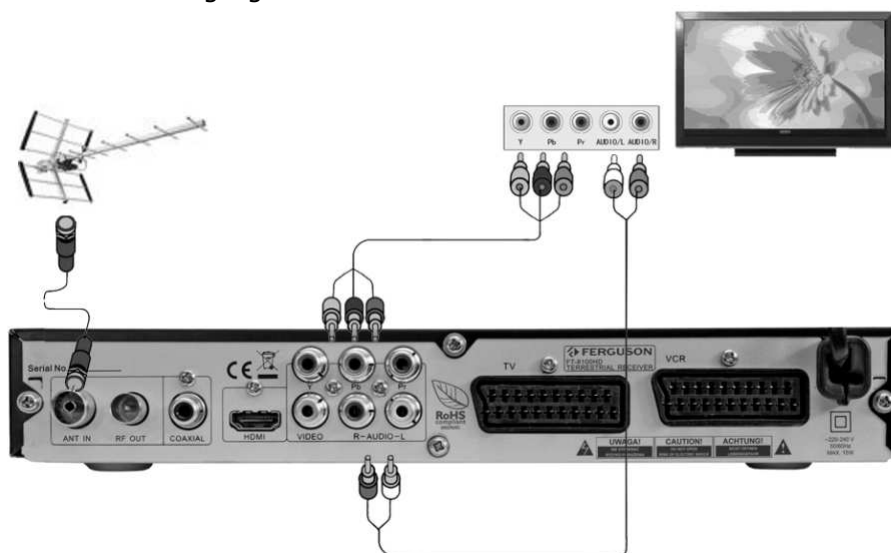
1.1 Connect to TV with HDMI cable (recommended)

1. Connect LNB IN port on receiver to a satellite dish.
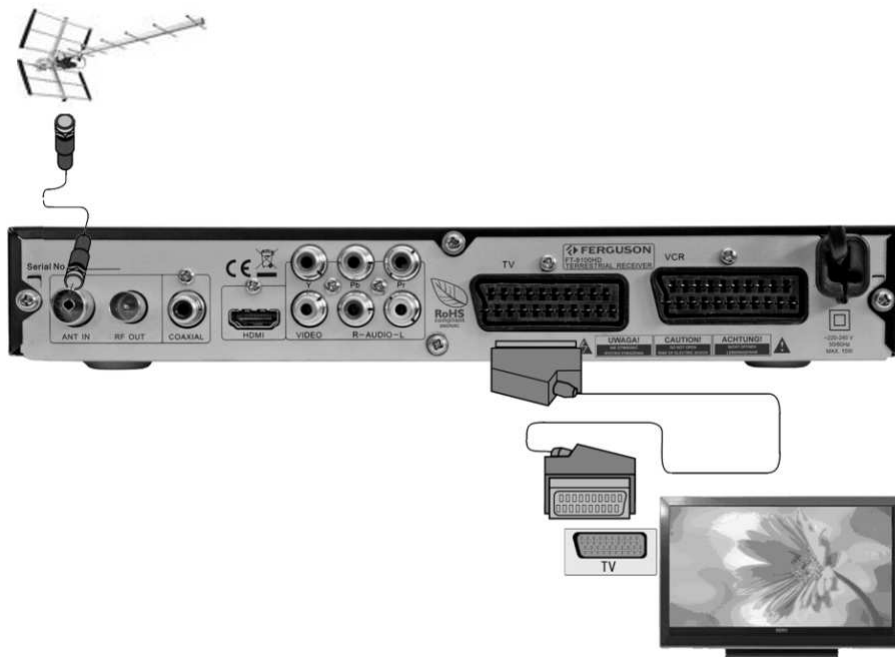2. Connect HDMI port on receiver to HDMI port on TV.

1.2 Connect YPrPb Port

1. Connect LNB IN port on receiver to a satellite dish.
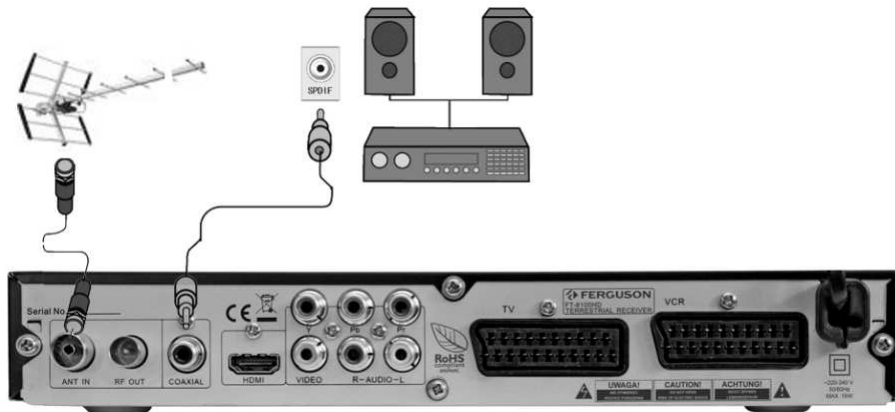2. Connect to TV as following figure.

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1.3 Connect SCART Port

1. Connect the antenna with LNB IN of the STB.
2. Connect to TV as following figure.

1.4 Connect Audio System

1. Connect the antenna with LNB IN of the STB.
2. Connect the SPDIF with Digital Theater Systems to enjoy higher quality sound.
3. You can also connect AUDIO L/R with AUDIO IN L/R of audio system by using the RCA cable.

Quick Installation

Step 1: Check the cable connections
Prior to powering up the receiver, ensure that all cables are correctly connected. Ensure that the unit is connected to A/V equipment and the power socket.

Step 2: Insert the CAM (with smart card) released by your service provider.
Insert the CAM into the slot according to the arrow direction drawn.

Note: Don't attempt to remove or insert the CAM while the receiver is powered on or initializing.

Step 3: Turn on the television and tune it to relevant video mode.

Step 4: Power on and Set STB
Turn on power switch ON/OFF of your receiver. The startup OSD will be shown on the TV screen. Receiver initialization includes loading of the embedded system parameters. If there are some programs stored in the STB, channel number will be shown on the LED area. Otherwise , Install Guide will show.

Use keys ▲▼ move the cursor, keys ◀▶ change the item select.
Press <MENU> or <EXIT> to exit the Install Guide .

Step 5: Search program
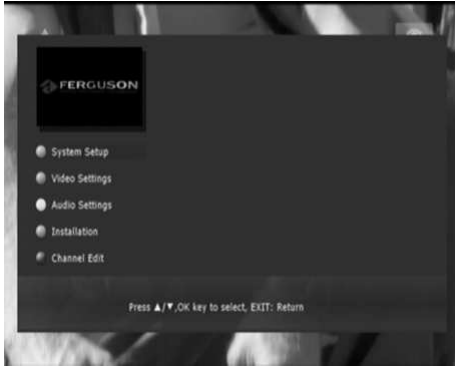Press <Start> to save current set and enter AUTO SCAN.

Step 6: Play program
To display TV program list, press <OK> button directly at the non-menu mode, select the desired program by using ▲▼ buttons and press OK button to watch.

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THE MAINMENU INFORMATION

After connecting the STB and switch on the power; the subject unit comes into work. If the signal is ready and there are programs saved in the unit, the TV will show the channel which when you turn off last time. The unit will be in normal play mode after getting signal.

Main menu

Press <MENU> on the remote control unit to open up the main menu, and it includes the following items.

[System Setup]
[Video Settings]
[Audio Settings]
[Installation]
[Channel Edit]

Use keys ▲▼ move the cursor, press <OK> to select the desired item. And press <MENU> or <EXIT> to exit menu operation.

1. System Setting

1.1 OSD Language

User can choose below options of OSD set control:
OSD language: select a preferred language available.

1.2 Country

Make sure to select the appropriate country of the installation of your receiver. This choice is linked to the default settings, such as character encoding.

1.3 LCN

The logical channel number (LCN), also known as virtual channel means a channel, which is different from the actual channel or frequency in which it is transmitted. Used for the automatic numbering of channels in accordance with a proposal for the provider.
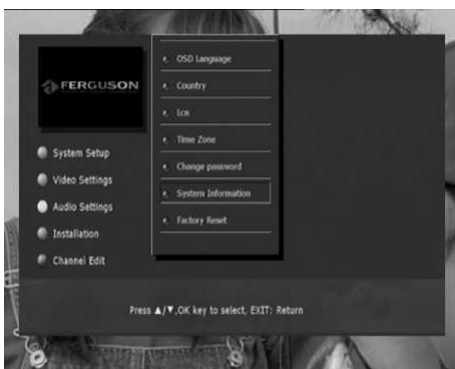
1.4 Time Setting

User can choose below options of Time set control:
Time Zone: GMT 0, GMT+1...
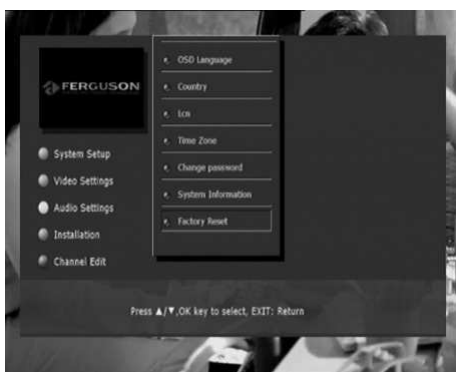Daylight: On or Off.

1.5 Change password

In this menu you can change default password. Default password is **1234**.
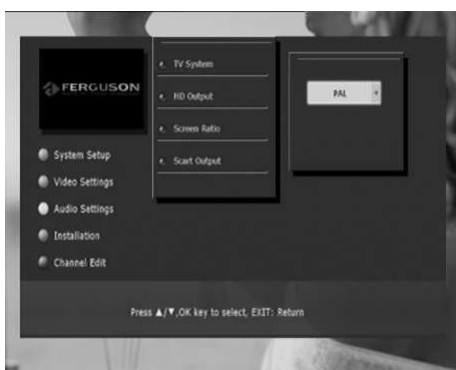
1.6 System Information

This OSD information shows the receiver's basic information such as manufacture, software and hardware version.

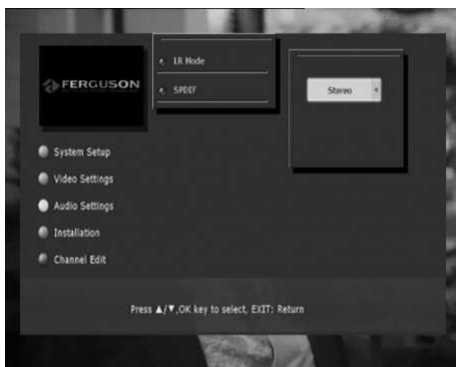◈FERGUSON

1.7 Factory Reset

This operation removes any changes made by the user. The receiver will return to its factory settings. Upon completion of this operation receiver will automatically be rebooted.

2. Video Setting

User can choose below options of video control:
TV system: NTSC or PAL.
HD Output: 1080i, 720p, 576p, 576i, Auto
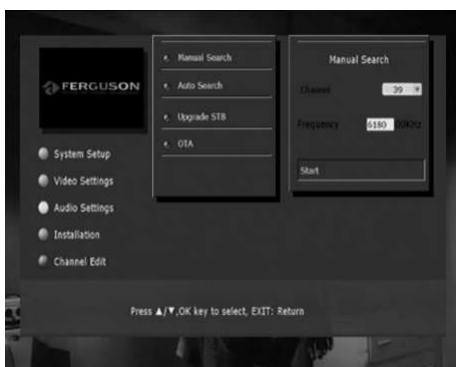Aspect ratio: Auto, 4:3 or 16:9.
SCART Output: CVBS or RGB.

3. Audio Setting

User can choose below options of volume control:
Sound track: Left, Right or Stereo.
Digital output mode: PCM or RAW.

4. Installation

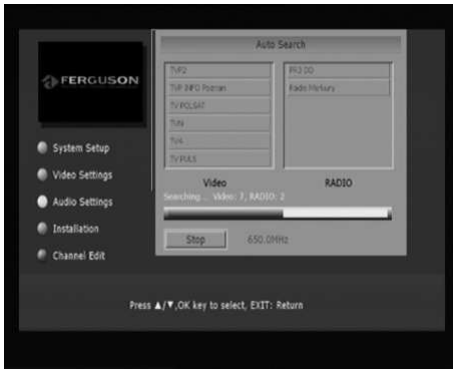## 4.1 Manual Scan

If you know the specific channel number of the programs, you can use Manual Search to scan programs.

When move cursor to Channel, press OK then appear channel list. Through up/down to choose the channel you need search by manual scanning, besides, the Frequency below Channel will change according to your choosing. After choosing, you can choose "Start" to start channel scanning.
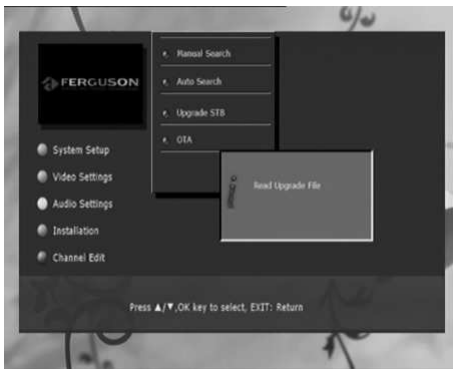
4.2 Auto Search

Scan all available channels that depends on the Nation Setting in the Install Guide. After searching well, new searched TV and radio programs will be added to the corresponding program list.

4.3 Firmware Update Via USB

Warning: *Do not turn off the power during the update. This risks lasting damage to equipment.*

Once you get the right file from your franchiser, please upgrade software as following steps:

1. Format your USB disk to FAT32 file system and copy 📁**/upgrade/NEC_EMMA3SLHD.UPG** to USB disk;
2. Power off receiver and pull out antenna
3. Insert USB disk to receiver's USB port
4. Power on STB, and then enter into *Installation->Firmware update via USB*.
5. Then the system will check the USB device and upgrade software by itself. If successful, the menu will display the progress of updating .
6. After all done receiver will reboot automatically.

5. Program Manage

5.1 Program Edit

1. Press button red to select a favorite list.
2. Press the UP and DOWN keys to select a channel and press OK to select this channel to the favorite list. A confirmation logo will be displayed next to the selected channel.
3. Press the EXIT key to qui t the menu. You are now being asked to save the change or to cancel .

In the same way you can lock, move or delete channels.

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6. Program Guide

It provides information of the current and next programs on different channels. The information is only available from the network to which the channel you are watching.

Press < EPG > key to switch between Program list and EPG list. The contents shown on the up-right windows and EPG list vary according to the selection in Program list. Program detail information is showing on up-left windows.
You can use ◀▶ key to switch days among current 7 days shown on the top of the EPG list.

7. USB/PVR

The receiver has a simple music, video and photos in the JPEG format player. The player is a function of additional, which means that not all supported formats will work properly.

Video tab is also used for playback of your recordings.

8. Record

This function requires the support of USB HDD, so you have to check up whether a USB HDD that is FAT32 format has been connected to the USB interface.

Remarks:
- Ensure that there is enough free space before recording. If the free space on the hard disk is insufficient, recording will stop.
- You can record radio programs also.

8.1 Start record

Press the <REC> key on the RCU, system will popup a dialog to confirm. When recording, a record icon will be displayed on the screen.

8.2 Stop record

Press STOP to end current recording, or in recording info window choose "StopRec".

Specifications

Tuner	
Input Frequency	174~860MHz UHF & VHF
Bandwidth	7 or 8 MHz
Input Impedance	75 Ohms
Signal Input	IEC Female(RF IN), IEC Male(RF OUT)
Input Level	-90 ~ -20 dBm
Channel decoding	
Waveform	COFDM
Demodulation	QPSK,16QAM,64QAM
FEC	1/2,2/3,3/4,5/6,7/8
Guard	1/4,1/8,1/16,1/32
Mode	2K,8K
Video Decoding	
Standard	MPEG-2: MP@ML, MP@HL H.264/AVC: HP@L4.1, MP@L4.1, 3.2 VC-1:AP@L3, L2
Aspect Ratio	4:3,16:9
Video Format	PAL/NTSC Video
Video Resolution	720p/1080i
Audio Decoding	
Standard	MPEG-1 and -2, layer 1 and 2 MPEG-4 HE-AAC
Output Mode	Left Channel, Right Channel, Stereo
Sampling Frequency	32,44.1,48KHz

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AV Output	
Video De-emphasis	CCIR REC.405-1, 625Lines
Video Bandwidth	5MHz
Video Output Impedance	75 Ohms
Video Output Level	1.0 Vp-p
Audio Output Frequency	20Hz~20KHz
Audio Output Impedance	Low
Demultiplexer	
Standard	ISO/IEC 13818-1
Input Max. Bit Stream Rate	60Mbps(Serial) / 7.5Mbps(Parallel)
Rear Panel	
HDTV output	HDMI 1.3,YPbPr
ANT Input	IEC-type, IEC 169-2 Female
RF Loop Out	IEC-type, IEC 169-24 Male
Scart	1 TV and 1 VCR
Digital Audio Output	Coaxial
USB	USB2.0
Front Panel/RCU	
IR Receiver	38KHz
Category	IR(Carrier 38KHz)
Battery	2 x 1.5V
Power/Ambient	
Input Voltage	230V~, 50Hz
Power Consumption	15W max
Operation Temperature	0~40℃