

# USER'S MANUAL

(English)



# Medi@link

**d i g i t a l**

*Smart HOME Hybrid IPTV  
IPTV + APPs + S2 FTA*

## **Main Features**

High speed CPU 667MHz, 32-bit MIPT  
16MB Flash memory for IPTV support  
256MB DDR3-SDRAM for IPTV support  
Advanced HD H.264/MPEG-2/VC-1 and Fully DVB-S/S2 Compliant  
Full HD supported (Resolution:1080p/1080i/720p/480p/576p/480i/576i)  
True-color OSD (32bit) and User Friendly MENU  
Hardware Blind Scan  
USB Wi-Fi supported  
DiSEqC 1.0, 1.1, USALS and Unicable Compatible  
EuP (Energy Using Products) supported  
Teletext Supported : OSD and VBI Insertion for TV  
Subtitle Supported : DVB and Teletext  
Fully supported 7Day Guide and Program reservation on Guide  
Various channel edition : Move, Sort, Lock, Skip and Rename  
Firmware upgrade by USB and from FTP server via internet  
FTP & Web server supported for software upgrade and file transfer  
AC 90~240V

## **Multimedia & IPTV functions**

More IPTV support  
VOD (Video On Demand) support  
YouTube supported  
USB Multimedia Applications (Movie, Music, Photo, Game, E-Book) supported  
Most of Multimedia file format supported include MKV (AVI, DIVX, MKV, XVID, MP4, SWF etc)  
DivX HD Plus supported  
SAMBA (Access and Play directly on TV any multimedia content stored and shared on the HDD of PC)  
DLNA (Digital Living Network Alliance) supported  
Live Weather Forecast Service (Yahoo Weather) supported  
Live Map Service (Google Map) supported  
32bit Native32 GAME direct Download & Play ([www.native32.com](http://www.native32.com)) supported

Web album Picasa, Ypoo, and Flickr supported

URL IP Streaming Player(IPTV, VOD)

3G modem supported

Dailymotion supported

Smart touch RCU function supported (by smart phone)

## **Unpacking**

Unpack the receiver and check to make sure that all of the following items are included in the packaging.

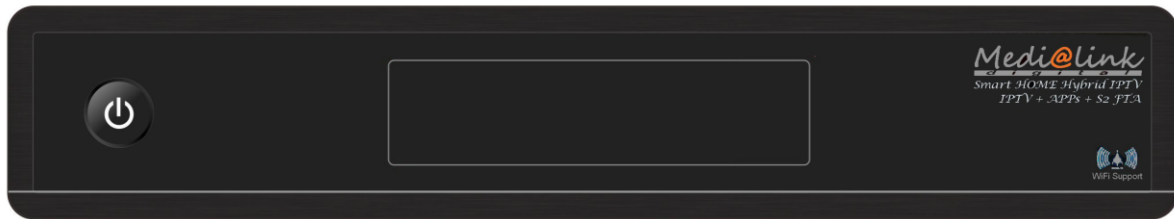
1 x Digital Set Top Box

1 x Remote

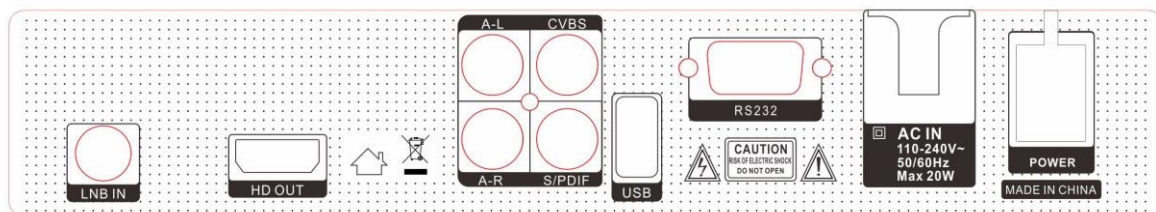
1 x User's Guide

## OVERVIEW OF THE EQUIPMENT

### [ Front ]



### [ Rear ]



**LNB IN:** Connect to satellite dish (IF input from LNB to digital tuner)

**RS-232:** Connect to PC or the other box

**L/R-AUDIO:** Connect to TV/Stereo.

**CVBS:** Connect to the TV using RCA lead (CVBS output to TV)

**Power :** 110~240V AC Power supply

**HD OUT:** Connect to the TV using HD TV line

**USB :** Insert the USB memory etc

## Remote Controler



### Key Definition

- 1) (MUTE) : Mutes or un-mutes the audio temporarily.
- 2) (POWER ON) : Switches between operation and standby modes.
- 3) NUMERIC(0~9) Key : To select channels and input of channel numbers or characters.

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- 4) RECALL : Displays the history channel lists
- 5) INFO : Displays the channel and program information.
- 6) MENU : Displays the main menu.
- 7) (TV/RADIO) : Switches between TV and Radio modes.
- 8) EPG : Displays the Electronic Program Guide.
- 9) EXIT : Returns to the previous menu.
- 10) UP : Navigates the cursor on the menu.
- 11) LEFT : Navigates the cursor on the menu.
- 12) RIGHT : Navigates the cursor on the menu.
- 13) DOWN : Navigates the cursor on the menu.
- 14) OK : Selects a menu or confirms the selected operation.
- 15) FAV/SAT : Displays the favorite channel group and satellite list.
- 16) SLEEP : Displays the timer list.
- 17) VOL + /VOL - : Adjusts the audio volume.
- 18) IPTV : Displays the IPTV list.
- 19) A/V+ : Adjusts Audio and Video options.
- 20) OPT : Displays others functions.
- 21)(RED) : Switch Daily and Weekly modes while in EPG state.. Lock or unlock the selected program while in program management state. Delete all the scheduled programs while in the scheduled
- 22) (GREEN) : Schedule or record the current program while in EPG state. Delete the selected program while in program management state. Delete the selected scheduled program while in the scheduled program list..
- 23) (YELLOW) : Go to the previous day while in the Weekly mode of EPG. Ignore the selected program while in program management state. Edit the selected scheduled program while in the scheduled program list.
- 24) (BLUE) : Go to the next day while in the Weekly mode of EPG. Rename the selected program while in program management state.
- 25) PVR LIST : Display the PVR list.
- 26) SbuT/TXT : Displays Subtitle or Teletext functions.
- 27) PVR INFO : Display the PVR Information.
- 28) FUNC : Displays others functions.
- 29) T.Shift : Start the Timeshift function while in the record state or the Timeshift function is in Pause mode.
- 30) JUMP : Goes to the next chapter.
- 31) REC : Starts recording.
- 32) PLAY/PAUSE : Plays at normal speed or pause.
- 32) MARK : Mark at program while in the multimedia playback.
- 23) FR : Rewinds at high speed. Each time you press this button the rewind speed is increased.
- 34) STOP : Stops the recording or playback program.
- 35) FF : Forwards at high speed. Each time you press this button the fast forward speed is increased.

## Main Menu Structure

- IPTV
- Media Center
- Installation
- Setting
- Access Control
- Network App

## IPTV

It is unique feature that enables you to play and enjoy variety(various) media contents like AnyTV Plus, Nash TV, IP TV.

## Media Center

This chapter will help you to play multimedia apps and multimedia players, configure multimedia setup, FTP client, and play games.

### (1) Multimedia Apps (Applications)

Multimedia Application enables you to download Native32 Games, watch web albums, view maps and, check weather forecast, and enjoy Internet Radio, Dailymotion and YouTube etc. (YouTube, Vimeo, Dailymotion, Online, Internet Radio, Adult, News, Web Albums, Google Maps, Weather, Game Download, DLNA (DMP, DMR, DMS) etc)

#### FTP Client

FTP client enables you to access an FTP server and download/upload files via FTP.

#### Google E-mail

Google E-mail enable you to check your e-mail, view your e-mail.

#### Weather

Weather enables you to find weather forecasts for major cities throughout the world

### (2) PVR Setup

Before using the PVR function, user can setup by own need and convenient

### (3) Game

You can enjoy default games.

## Installation

- The default password is "0000"

This chapter includes the first time setup of the Antenna Setting, Satellite List, Transponder List.

### Antenna Setting

Antenna Setting enables you to enter the values such as Satellite, LNB Type, LNB Frequency, Transponder, 22kHz Tone, LNB Power and DiSEqC Mode of each item and start channel search

Motor Setting enables you to setup motor setting if you have DiSEqC motor installed with your antenna

Limit Setup can set the limit with the motorized antenna

Satellite List enables you to check antenna setting of each satellite, and perform **Add, Edit, and Delete** functions for satellites

## Service Scan

Service Scan enables you to scan satellite.

## Transponder List

Transponder List enables you to check antenna setting and satellite of each transponder, and perform **Add**, **Edit**, and **Delete** functions for transponders.

## Setting

### Channel Manager

Channel manager enables to edit (lock, move, delete, delete all, sort, rename and find) channels in all channel lists.

### Favorite Editor

Favorite editor enables you to edit (add, move, delete) channels in favorite lists.

### Network Setting

Network Setting enables you to configure the wired or wireless connection.

### Software Upgrade

Software upgrade helps you to upgrade the latest software version via USB or FTP.

### User Setting

User settings allow you to select the main, subtitle and audio languages from the given language option and adjust OSD Transparency, Hard Hearing, and limit info banner time.

### Audio / Video

Audio/Video allows you to adjust the output of the audio or video.

### Date / Time

Date /Time allows you to set your current time according to your location.

### Timer List

Timer list enables you to reserve new programmes you wish to watch, and modify/delete programmes reserved. You can also set the time you want to turn/off the product.

### Parental Lock

Parental lock enables you to set system lock, parental rating and change Pin Code.

- The default password is "0000"

### Version

This option helps you to know the current hardware, software and firmware version and build .

### Factory Reset

Factory reset functions only when you want to return the product to the condition of factory default. All settings and channels will be deleted.

- The default password is "0000"

## Network App

Network App enables you to setup the network, WiFi or Ethernet etc



**6. Specification****MAIN CHIPSET**

CPU	High speed performance 667 MHz 32-bit MIPS 24KEc
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**MEMORY**

FLASH memory for IPTV	128Mb
DDR3 SDRAM for IPTV	2Gb

**SATELLITE TUNER**

NUMBER OF TUNERS	1
INPUT/OUTPUT CONNECTOR	F-Type, IEC 169-24, Female
INPUT FREQUENCY RANGE	950MHz ~ 2150MHz
INPUT SIGNAL LEVEL	-65dBm ~ -25dBm
CONNECTOR	75Ω Unbalanced
INPUT IMPEDANCE	Vertical: +13.5V (+14.5V at high voltage) Horizontal: +18V (+18.5V at high voltage) Current: Max. 500mA (Short Circuit Protection)
22KHz TONE	Frequency 22KHz±4KHz Amplitude 0.6±0.2Vpp
DiSEqC CONTROL	1.0, 1.1 & 1.2 Version Compliant
CHANNEL SELECTION	PLL Frequency Synthesizer

**DEMODULATOR**

TYPE	DVB-S, DVB-S2
DEMODULATION	QPSK, 8PSK
INPUT SYMBOL RATE	1~45MS/s, SCPC and MCPC Capable
FEC MODE	DVB-S: Auto, 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2 - QPSK: Auto, 1/2, 3/5, 2/3, 4/5, 5/6, 8/9, 9/10 - 8PSK: Auto, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

**VIDEO DECODER**

TRANSPORT STREAM	MPEG-2 ISO/IEC 13818-2 MPEG-4 Part 2
PROFILE LEVEL	MPEG-2 MP@ML, MPEG-2 MP@HL MPEG-4 AVC/H.264 HP@L4.1
VIDEO FORMAT	4:3, 16:9, Letter Box
VIDEO RESOLUTION	1080p, 1080i, 720p, 576p, 576i, 480p, 480i

**AUDIO DECODER**

AUDIO DECODING	MPEG/MusiCam Layer I & II, AC3 Down Mix
AUDIO MODE	Mono / Dual / Joint Stereo / Stereo

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AUDIO BIT RATE	32Kbits/s – 384Kbits/s
SAMPLING FREQUENCY	32, 44.1, 48KHz

**AUDIO / VIDEO / DATA INPUT/OUTPUT**

VIDEO(CVBS) OUTPUT	1 x RCA Cinch
AUDIO OUTPUT	2 x RCA Cinch (L/R)
DIGITAL AUDIO OUTPUT	1 x S/PDIF (Optical)
RS-232C	9 Pin D-Sub Socket Type (Max.115200bps)
HD Out	1 x HD Out
USB	2 x (USB 2.0 Host), Front & Rear
USB-WiFi	USB WiFi support

**POWER SUPPLY**

INPUT VOLTAGE	AC 90~240V, 50/60Hz
TYPE	SMPS (Switching Mode Power Supply)
PROTECTION	Separate internal fuse The input should be protected against lightning.

**PHYSICAL CHARACTERISTICS**

DIMENSION (W x H x D)	220 x 40 x 115 (mm)
NET WEIGHT	Approx. 1.0Kg
OPERATING TEMPERATURE	0℃ to +45℃
STORAGE TEMPERATURE	-10℃ to +70℃