Product Specification

High Definition IP Set-Top Box
ITB-3001

Version 1.1

Change History:

Revision	Date	Author	Change List
Version 1.0	2010/2/11	Eva	Initial release
Version 1.1	2010/6/21	Jonas	VLC & Flickr Support

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Approved by:	Tom Shih	Project Leader:	Tom Shih

■ PRODUCT DESCRIPTION

High Definition IP Set Top Box ITB-3001is PLANET's latest IP STB that supports videos up to High Definition (HD) 1080P formats. With the next generation multimedia streaming technology, home users can enjoy high quality videos entertainment without having to go to video rental stores or even use Pay-Per-View.

The ITB-3001offers DLNA / UPnP AV services, based on MPEG-4/H.264/DTS compression technology to reach wider audience or achieve higher density of service that thus increases bandwidth efficiency. The IP STB allows the users to enjoy IP multicast video and home networking service.

IP Set-top Box is advanced customer premises equipment (CPE) device for delivering streaming video, audio, and IPTV directly from Internet to Teclos subscribers. The ITB-3001is designed to meet service provider's deployment requirements for IP-based multimedia service delivery and it is easy to be installed even by subscribers. Once the UPnP connection is set up, you can huddle on the sofa using supplied remote control to search and enjoy your favorite IPTV, Video, and Music in your home networking.

The PLANET IP Set-Top Box guarantees the best multimedia experience for its users with the advanced features such as real RMVB and DivX. In addition to its super analog video and audio outputs, the ITB-3001also provides HDMI component outputs and Dolby digital to enable the users to enjoy high definition video.

■ PRODUCT FEATURES
- Built-In Flickr for Photo Sharing
- Built-In VLC Station for IPTV Demo
- Dolby Digital, DTS Compliant
- UPnP AV, DLNA AV Compliant
- Integrated HDMI & Full HD (1080P) TV
- Electronic Program Guide and Digital rights management
- User-friendly Graphical On-Screen Menu
- Supports Multiple file formats
- Built-In BitTorrent download engine and Internet Media such as RM/RMVB, DivX, etc
- Multicast IPTV & Video-on-Demand (VoD) *
- Broadcast TV & Time-Shift TV*

* Available on demand with Telco head-end system.

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■ PRODUCT SPECIFICATION

MAIN COMPONENT
Chipset: Realtek RTL1073, 400MHz
RAM: 128MB DDR2
Flash: 512MB NAND Flash

■ FUNCTIONAL SPECIFICATIONS

Model		ITB-3001
Operation System		Linux (kernel 2.6.12.6)
Port	Video Output	HDMI Auto(480p,720p,1080i,1080p), YPbPr and Component Video
	Audio Output	Audio L/R
	Ethernet	1Ethernet:10/100Mbps, Half or Full Duplex, Auto-negotiation, Auto MID/MID-X
	USB	2 USB 2.0 (Host External Storage support)
LED Indicators		1 Power LED light on front panel 1 Network LED light on front panel
Power Switch		1 Power On / Off Switch on front panel
Decoding		Up to 1080p (RMVB up to 720p)
Media Format	Video	MPEG1 (AVI / MKV / TS / DAT / MPG / MPEG / VOB) MPEG2 (MKV / DAT / MPG / MPEG / VOB / ISO / IFO / TS / TP) / M2TS MPEG4 (AVI / MP4 / MKV / MOV / WMV / ASF) DivX 3 / 4 / 5 / 6、Xvid (AVI / MKV / MP4 / MOV) H.264 / AVC (TS/ AVI / MP4 / MKV / MOV / FLV) / M2TS VC-1 (TS / AVI / ASF / WMV) / M2TS WMV9 (ASF / WMV) Real Video 8 / 9 / 10 (RM / RMVB), up to 720p
	Audio	MPEG I Layer 1, 2, 3 (2-CH) and MPEG II Layer 1, 2 (Multi-Channel) LPCM, ADPCM, FLAC, AAC, WAV and OGG Vorbis Dolby® Digital Plus / AC3 Supports 7.1 / 5.1 down mix to 2 channel outputs DTS 2.0 + Digital Out® Supports 7.1 down mix to 2 channel outputs RA1 / RA-cook / RA-lossless WMA
	Photo	HD JPEG with unlimited resolution GIF PNG BMP TIF TIFF
	Subtitle	SRT, SMI, SUB, SSA, and IDX+SUB
Reading Storage File System		EXT3 NTFS FAT16 / 32 HFS+
Writing Storage File System		EXT3 NTFS
Environment Specification		

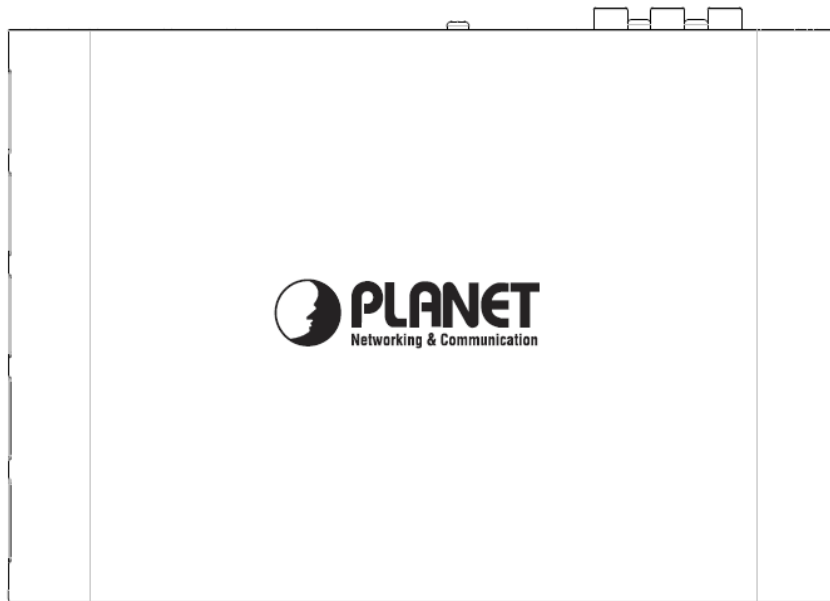| Dimension (W x D x H)	204× 145× 40 mm
Power	12V DC, 2.0A
Power Consumption	In standby mode: 12V, 0.03A, 0.36W In operating mode: 12V, 0.45A, 5.4W
Operating Temperature	Operating temperature: 0 ~ 45 Degree C
Operating Humidity	Relative Humidity: 80 % RH (non-condensing)
Emission	FCC, CE

■ PHYSICAL SPECIFICATION
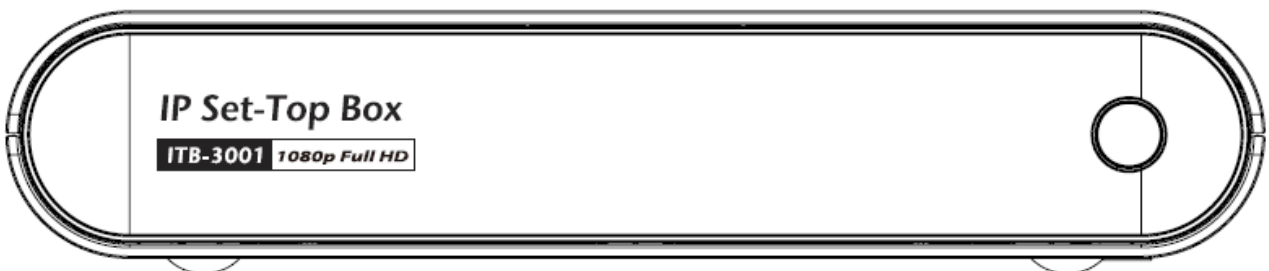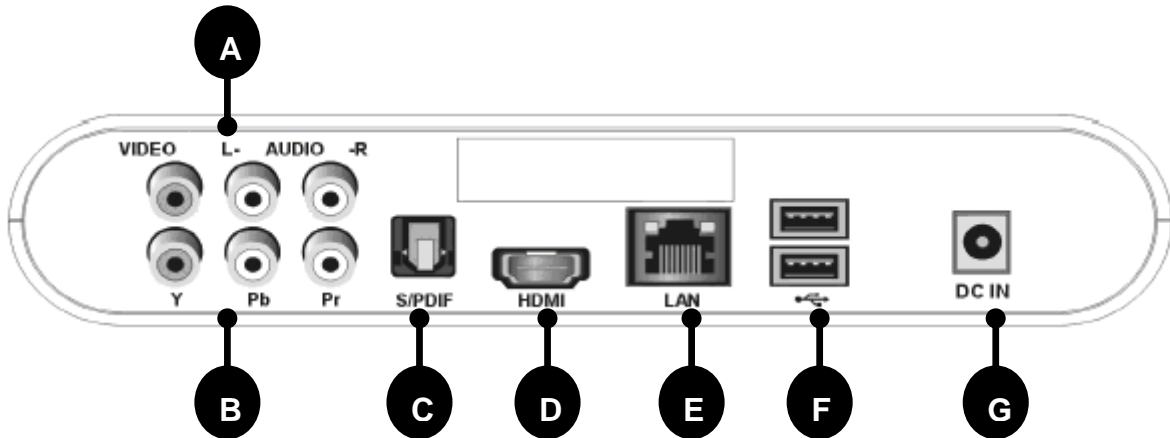
Dimensions

204× 145× 40 mm (W x D x H)

Weight

420g

Top Panel

Front Panel

Front Panel and LED Definition

Connector		Description
Power	**ON/OFF**	The LED light will turn "Blue" color when turn on the STB
	Standby	The LED light will turn "Red" color
LAN		Access LAN with "Blue" color

Rear Panel

Rear Panel Port and Button Definition

No.	Connector	Description
A	**Audio L-/R-** **VIDEO**	Use AV cable to connect to the VIDO IN/ AUDIO L/R IN jacks on the TV sets or Home Entertainment systems in your home in your home by using VIDEO (Yellow)/AUDIO L (White)/R (Red) cables.
B	**Y/Pb/Pr**	Connect to a Y/Pb/Pr-compatible display using three video (Y/Pb/Pr) and two audio jacks (AUDIOL/R), through a component video cable with green, blue, and red connectors.
C	**S-PDIF**	Using an optical digital audio (also called S/PDIF) cable to connect to S-PDIF port of the TV sets or Home Entertainment systems in your home.
D	**HDMI**	Connects to the HDMI jack on the display, a single cable transmits both audio and video data.
E	**LAN**	Connects to the Ethernet cable with RJ-45 Ethernet connector.
F	**USB**	Plug the supported USB devices into USB ports, such as USB hard drives, cameras and camcorders.
G	**DC IN**	Connects to the DC power adapter.

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Remote Controller

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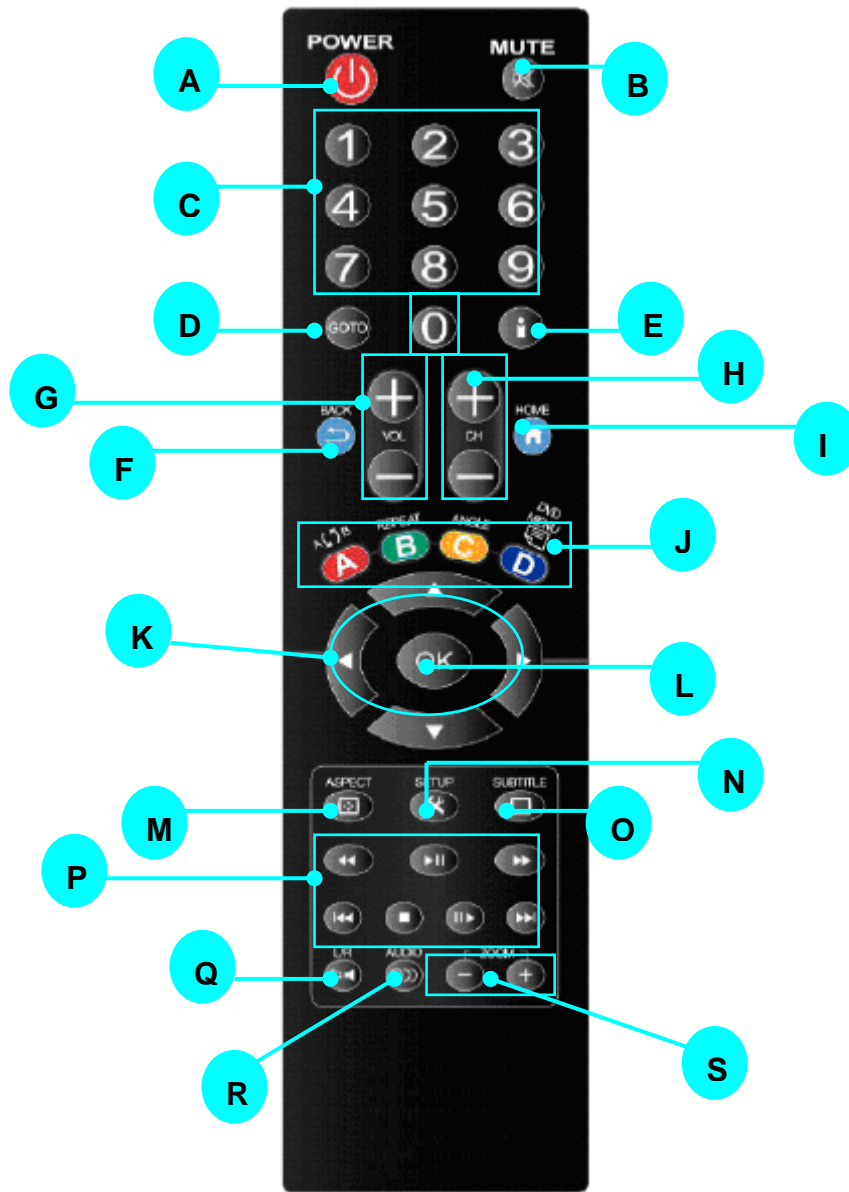
Keypad Definition

No.		Connector	Description
A		**POWER**	Turn on/ off system
B		**MUTE**	Mute/ Resume audio
C		**NUMERS**	0-9 number keys for selecting desired options.
D		**GOTO**	Video/movie chapter selection.
E		**INFO**	Display the information of media files while in play mode.
F		**BACK**	Return to the previous display.
G		**VOL**	Volume up (0-28), default is 16; Volume down (0-28), default is 16.
H		**CHANNEL**	Channel up/Channel down.
I		**HOME**	Hot key to the main OSD menu.
J		**REPEAT A-B**	Press once to mark desired repeat point A, press again to mark desired repeat point B, and press yet again to turn this feature off.
		REPEAT	Enable/disable repeat of file playback.
		ANGLE	Switch DVD display angles.
		DVD MENU	Show DVD Menu.
K		**Navigate Buttons**	Navigate through menu screen or media libraries.
L		**OK**	Confirm or select.
M		**ASPECT**	Pan Scan 4:3 /Letter; Box 4:3 / Wide Screen16:9/ Full Screen.

N		SETUP	Enter setup menu.
O		SUBTITLE	Switch subtitle files.
P		PREV / NEXT	Media Scan Backward/Forward during audio/video playback. Supports the following speeds: 1x, 1.5x, 2x, 4x, 8x, 16x, 32x.
		PLAY/PAUSE	Play media / Pause media.
		PREV	Media Skip Previous.
		NEXT	Media Skip Next.
		STOP	Stop playback and return to the previous Screen.
		SLOW MOTION	Slow motion through video playback. Supports the following speeds: 1x, 3/4x, 1/2x, 1/4x,1/8x, 1/16x.
Q		L/R	Switch Left/Right speaker.
R		AUDIO	Switch audio outputs.
S		ZOOM	Enlarge image on video mode (, 2x, 3x, 4x, 8x). Reduce image on video mode (4/5x, 3/4x, 2/3x, 1/2x).Enlarge image on photo mode(Fit, 2x, 4x, 8x, 16x)

■ **ENVIRONMENTAL SPECIFICATION**
Operating
  Temperature: 0 ~ 45 Degree C
  Relative Humidity: 80 % RH (non-condensing)
Storage
  Temperature: -25 ~ 55 Degree C
  Relative Humidity: 80 % RH (non-condensing)

■ **ELECTRICAL SPECIFICATION**
  Input Voltage: 12V, 2A

■ **REGULATORY COMPLIANCE**

  CE, FCC Part 15 Class B

■ **RELIABILITY**
  MTBF > 50,000Hrs @25degree C MIL-STD-781C

■ BASIC PACKAGING

- ITB-3001 Unit x 1
- CD-ROM x 1 (Include Quick Guide and User Manual)
- Remote Controller x 1
- Power Adapter x 1
- AV Cable (RCA) x 1
- RJ-45 Cable x 1
- Battery (AAA) x 2

■ PACKAGING INFORMATION

- **Gift Box Dimension**
  268 x 233 x 61mm (W x D x H)
- **Gift Box Weight**
  0.93kg (Gross weight)
- **Carton Dimension**
  554 x 484 x 337mm (W x D x H)
- **Carton Weight**
  18.6 Kg (Gross weight)
- **Carton Units**
  20 units