

TB2002 Android TV Box

User Manual



FCC Information and Copyright

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment . This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Precautions

1. Don't use the TV box near water.
2. Clean only with a dry cloth.
3. Don't block any of the ventilation openings, install according to the manufacturer's instructions.
4. Don't install near any heat sources such as radiators, heat registers, stoves, or other apparatus(including amplifiers) that produce heat.
5. Don't defeat the safety purpose of the polarized or grounding - type plug. When the provided plug does not fit into your AC power outlet, consult an electrician for replacement of the obsolete outlet.
6. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
7. Only use attachments/accessories specified by the manufacturer.
8. Unplug this apparatus during lightning storms or unused for long periods of time.
9. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way.

Accessories

- AC adapter
- Remote control
- TV Box
- User Manual

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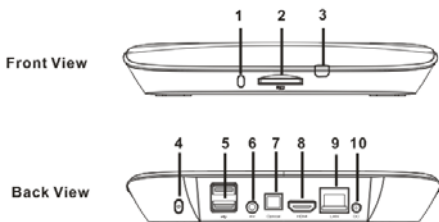
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Chapter 1 Basics

TB2002 is a smart TV box based on Android operating system. It supports HDTV, network function and third party software.

Parts and Control



1. **Status indicator** – blue light for working mode, red light for standby mode.
2. **Memory card slot** – supports SD/MMC card.
3. **IR window** –To receive IR signal from IR remote control.
4. **Standby button** – Press to switch between standby or wake-up mode.
5. **Mini USB jack** – for connecting with external USB device
6. **AV jack** – to connect TV/monitor via AV cable
7. **Optical port** – to connect optical device via optical cable.
8. **HDMI port** – to connect HDTV via HDMI cable.
9. **Lan port** – to connect Ethernet network via RJ45 cable.

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10. DC in jack – for connecting power cable to power adapter.

Remote Control



STANDBY button

– press to go to standby/wake-up mode

SUB MENU button

– press to display the option menu

SETUP button

– press to enter into settings

PG.UP/DN button

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- press to go to previous/next song/video

HOME button

- press to return to home screen

Exit button

- return button, to return the previous screen

Skip button

- press to fast rewind/ fast forward

Zoom button

- press to Zoom in/out

Repeat button

- press to set repeat mode

MUTE button

- press to mute the TV box.

TV OUT button

- press to select TV out mode.

AUDIO button

- press to select Audio mode.

SUBTITLE button

- press to change subtitle.

BACKSPACE button

- press to delete a character

OK button

- press to confirm the selection

Directional buttons

- press to move the cursor left/right/up/down.

INFO button

Chapter 1 Basics

- press to display the media file information.

PLAY/PAUSE button

- press to play or pause the playback

Volume button

- press to increase or decrease the volume.

STOP button

- press to stop the playback

APP button

- press to display the main menu

GOTO button

- press to go to the desired playback

Using the remote control

- To use the remote control, point the remote control at the IR window located on the unit and press the buttons.
- The recommended effective distance for remote operation is about 5 meters.

Battery Replacement

When the battery become weak, the operating distance is greatly reduced and you will need to replace them.

1. Take out the Lithium battery at the bottom of the unit cover.
2. Insert a new identical Lithium battery.

Note: you can also use the remote control with mouse and keyboard (not included) for

Chapter 1 Basics

quick operation and more control on TV screen.

Power supply

Using the AC adapter

- The supplied 5V/2A adapter operates on AC 100-240V, 50/60HZ.
- Connect the AC adapter to DC-in jack, and then plug the AC adapter into AC outlet.

Note: While the AC adapter is connected and the unit is on standby, power will still be consumed.

Connections

Connecting to HDTV using HDMI cable

1. Use the HDMI cable to connect the TV box to the HDTV.
- 2..Use the AC adapter to connect a suitable wall outlet.
3. Turn on your HDTV and then power on the TV box.

Connecting to a TV using AV cable

1. Use the AV cable to connect the unit to TV/Monitor.
- 2..Use the AC adapter to connect a suitable wall outlet.
3. Turn on your TV and then power on the TV box.

Connecting to the internet

Wi-Fi connection: if the unit detects Wi-Fi signal, in **Settings < Wi-Fi** to set (See page24) .

LAN connection: connect RJ45 cable, in

Chapter 1 Basics

Settings < Wireless and network< More < Ethernet to set (See page24).

Transferring Contents

From USB Device

- The TV box supports USB Mass Storage Device function.
- To import contents (video, audio, photo etc) into the TV box, insert the USB device.
- Upon successful connection to TV box, go to [**File Explorer**], click to open.

From memory card

This unit supports SD card up to 32 GB

To insert a Memory card

Insert the card correctly with its label facing up until it clicks into the place. You may damage the card and the TV box if SD card is not inserted correctly.

To remove SD card, push the card once again until it clicks.


- When a SD card is inserted in or ejected from the TV box, it may take few seconds for the TV box to update the content.
- Please avoid inserting or ejecting SD card when other operation is running as this may cause the system hang.
- Do not remove the card if the content inside the card is being played. This will halt the operation of the TV box and cause the TV box to restart.

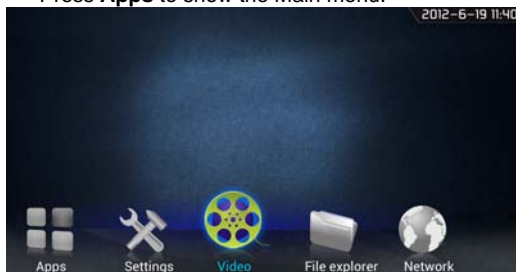
Home screen

When the TV box is turned on, it will enter into

Chapter 1 Basics

the Home screen.

- Press  anytime to return to the Home screen.
- Use the Directional buttons on the remote control to press any icon to get started.
- Press **Apps** to show the Main menu.



Customizing Home screen

Adding icons on home screen

You can add shortcuts or widgets to home screen.

Press **Menu** → **Add widgets to workplace**, press the desired options to add to home screen.

Removing icons on home screen

Press **Menu** → **Delete widget from workplace**, use the directional buttons to press the desired options to remove from the home screen.


Setting wallpaper for home screen

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Press **Menu** → **Set the wallpaper**, press the desired picture as wallpaper.

Main menu


All application icons are on the Main menu.

- On home screen, press **Apps** to show the Main menu.
- Press an icon on the Main menu to open the desired application.
- Press  to return to home screen.
- On Main menu screen, press the Menu button to uninstall the application.



Chapter 1 Basics

Buttons

- Use the Directional buttons and press **OK/Enter** button to select an item.
- Select an icon to open an application.
- Press the Return button (**Exit or ESC** button) on the Remote control to return to previous screen.
- Press  button anytime to return to Home screen.
- Press the **Menu** button on the Remote control anytime to display the option menu.

Scrolling

- Use the Directional-up/down button to scroll file list.
- On webpage, use the directional buttons to scroll around the page (be careful so as not to click the link) .

Onscreen keyboard

Use the onscreen keyboard to enter text, such as web addresses.

- Press on the text field to bring up the keyboard.



Uppercase key
key



Backspace



Numeric/punctuation/symbol key

Chapter 2 Getting Started

Web browser


View a webpage

- From Home screen or **Main menu**, press **Browser icon** to open web browser.
- On address bar, type the web address and press **OK** button on the remote control.
- Press the link on the webpage to open a new webpage.
- Use the Directional buttons to scroll around the webpage.
- To return to the previous page, press the **Exit or ESC** button.

Notice:


- Browser start page always defaults to Google home page.

Add bookmark

Press  to add the current visited webpage as bookmark.

Bookmarks List


Chapter 2 Getting Started

Press  to show bookmarks list, press a bookmark to open the webpage. Touch and hold the bookmark to display the option menu for bookmark.


- History

Access to view history lists. To remove these lists, press **Menu** then select **Clear history**.

- Settings

Press  to use more available function, including Privacy & security, Accessibility and so on.

Refresh/Stop

Press  to refresh on the current page, press **X** to stop loading the current page.

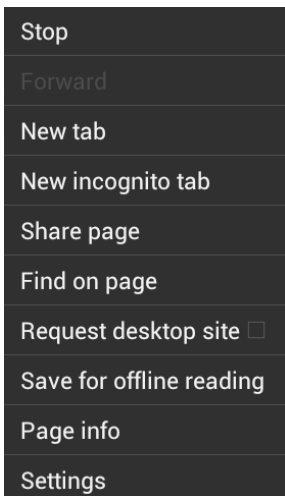
Forward

Press **← / →** go to previous/next webpage screen.

Using the option menu

Chapter 2 Getting Started


Press **Menu** to display the browser option menu. Press on the desired item to use webpage viewing control.

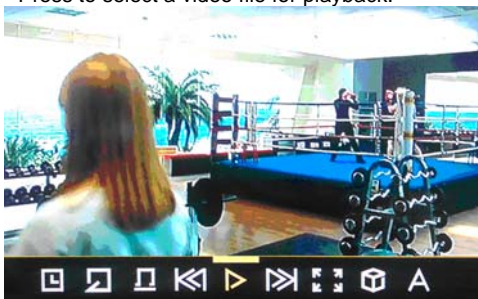


Watching Videos

Chapter 2 Getting Started




Playing videos

- From Home screen or **Main menu**, press **Video Player icon**  to open video player.
- Use the directional-up/down button to scroll through the file list.
- Press to select a video file for playback.















Controlling Video Playback

When playing video, press OK or Directional buttons on the remote control to display the video control bar.

Play or Pause a video	Press  /  or press Play/Pause button on the remote control.
Stop a video	Press  button on

Chapter 2 Getting Started

playback	the remote control
Play previous/next video	Press  /  on the remote control.
Fast rewind or fast forward	Press  /  onscreen or press  /  on the remote control.
Adjust the volume level.	Press the Volume +/- button on the remote control.
Set play mode	Press  .
Set playback effect	Press  .
Set subtitle gate,color etc..	Press  .
Go to the desired playback.	Press  .
Change sound channel	Press  .
Adjust the screen size: full screen,16:9,4:3	Press  .
Return to the video browser screen	Press the Return button.

Notes:

- Video player supports subtitle file, please load the subtitle file to be displayed on the


Chapter 2 Getting Started

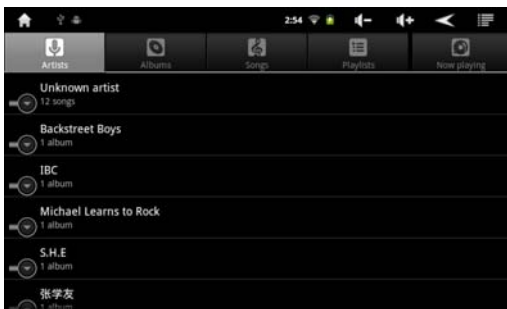
current video, unless the subtitle is integrated into the video itself.

- The TV box supports subtitle of sub, ssa, srt, lrc format, encoded in UTF8 format.
- The file name of the subtitle must be identical to that of the video file. The subtitle will be loaded automatically during video playback.

Playing Music

About music library

From **Main menu**, press **Music icon**  to enter into music library.



album



Songs All songs



Sorting by Playlist

Chapter 2 Getting Started



Return to Now playing screen

Playing songs

1. From **Main menu**, press **Music** to enter music library.
2. Press on a desired tab to enter song list.
3. Press the Directional-up/down button to scroll the song list.
4. Press the desired songs to start playing.

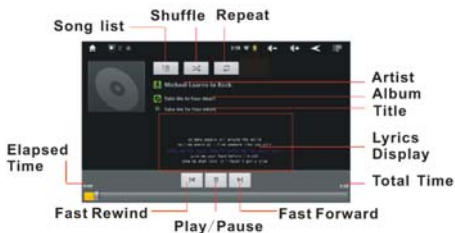
Note: If you want to exit music mode, press





to pause, then press Return button or











Controlling Song Playback



Pause or play songs.

Press  /  or press  on the remote control.


Chapter 2 Getting Started

Stop music playback	Press  on the remote control.
Play previous or next song.	Press  /  on the remote control.
Fast rewind or fast forward	Press  /  on the remote control.
Adjust the volume level.	Press the volume buttons on the remote control.
Display the current song list	Press  .
Set shuffle mode	Press  .
Set Repeat mode	Press  .
Display the music playback menu	Press Menu button.
Add the current playing song to playlist	Press Menu → Add to playlist .
To return to the Media Library	Press the Return button.


Using the playlist

Use the playlist to manage the songs in the library

Creating a new playlist

In the music playback screen, press  → **New**, and enter the name for the new playlist, then press **Save**.

Adding the current song into playlist

In the music playback screen, press .

Chapter 2 Getting Started

Press on a desired playlist, then the current song has been added into the selected playlist.

Viewing photos

From Main menu, press **Gallery** to view photos.

Thumbnail View

Thumbnail view displays the catalog as a table of thumbnail images in adjustable sizes.









- Press the **Directional-up/down** button to scroll the song list.
- Press the desired photo to full screen view.
- In full screen mode, press the Return button to return to thumbnail view mode.

Start to view photo

Press Menu button to show the control bar.



Chapter 2 Getting Started

View the previous / next photo.	Press Directional-right/left button
Share the photo with your friends	Press  Share
Rotate the photo left/right	Press  Rotate .
Crop and Edit the photo	Press  Crop .
Set the photo as wallpaper	Press  Set as .
Delete the photo	Press  Delete
To use more control (view photo information, set slideshow mode)	Press  More
Zoom in or zoom out	Press the Zoom button on the remote control.
Return to thumbnail mode	Press the Return button.

Chapter 2 Getting Started

Note:

- In zoom in /out mode, use the Directional button to move photo.

File Explorer

- From **Home screen**, press **File Explorer icon**.
- Press to select **Local Disk /SD card /USB** to enter.
- Use the **Directional-up/down button** to scroll through the file list to press the desired folder or file.
- To open a file or folder, press on the file or folder.

Using the option menu

On file explorer screen, press the **Menu** button to show the option menu.

Chapter 2 Getting Started



Copy / move files or folders

1. From the file list, select the desired files/folders to be copied or moved.
2. Press Menu to show the option menu, press **Cut** or **Copy**.
3. Go to the target folder that you want to put the selected file or folder.
4. Press **Menu** → **Paste**.

Note: it may take longer time to paste files/folder with big file size.

Rename the file or folder

1. From the file list, select the desired file/folder to be renamed.
2. Press Menu to show the option menu, select **Rename**.
3. Use Onscreen keyboard to enter a new file name.

Chapter 2 Getting Started

4. Press **Rename** to confirm.

Delete files or folders

1. From the file list, select the desired files/folders to be deleted.
2. Press Menu to show the option menu.
3. Press **Delete** to delete the file/folder.

Managing third party applications

This unit support third party applications (such as Game applications, etc.), you can install or uninstall applications for the system.

Download and install the application.

1. Download the desired applications into your computer.
2. Copy the downloaded applications to the unit via USB device (you can also download the desired applications from the browser in your device.).

Note: The system only supports XXX.apk format applications to be installed.

Chapter 2 Getting Started

4. From **Main menu**, press

Settings→**Security**→**unknown source**..

5. In file explorer, find the directory where the application is placed to press to start the installation.

6. After finishing the installation, you will see the Applications on the Main menu.

Uninstall application

1. From the **Main menu**, then press **Settings**→**Apps**.

2. Press the application you desire to uninstall, then press **Uninstall**.

Note: The default applications can't be uninstalled from the unit.

Chapter 3 Settings

From Home screen or Main menu, choose **Settings**, then press the desired items to be configured to start the Setting.

Wireless & networks

The Wi-Fi settings allow you manage networks, such as turn Wi-Fi on and join Wi-Fi networks.

Turn on Wi-Fi: From Main menu choose **Settings** → **Wireless&networks** → **Wi-Fi**, Then “√” will appear next to Wi-Fi when you have turned on the Wi-Fi.

Join a Wi-Fi network: From the detected network list, select a network, if necessary, enter a password and tap "**Connect**" to save the settings for the encrypted connection and connect to Wi-Fi. (Networks that require a password appear with a lock icon).

Select "**show advanced option**" to show more network control options.

If more than one previously used network is in range, TB2002 joins the one last used.

When TB2002 is connected to a Wi-Fi network, the Wi-Fi icon at the top of the screen shows connection strength.

Tap **More** to use more wireless network control including Ethernet network setting, PPPOE settings.

Chapter 3 Settings

Sound

Customize the sound settings, including Volumes, Default notification, Click sounds, Screen lock sound and Audio output mode.

Display

Customize the display settings, including the settings for Brightness, Contrast, Saturation, Wallpaper, Font size, Screen adaption, Screen trimming, Display output mode.

Storage

View the memory status of Micro SD card and internal storage, USB device, enable media scanning feature.

Apps

Allows you to manage the applications sorted by download, On SD card, Running and All.

Accounts & sync

Allows you to add new email account and sync all the email accounts.

Location service

Let apps use data from sources such as Wi-Fi and mobile networks to determine your approximate location. Moreover, let Google use your location to improve search results.

Security

Allows you to set Encryption, Passwords, Device administration and Credential storage.

Chapter 3 Settings

Language & Input

Set region and language, text input methods.

Backup & reset

Allows you to backup account, app data, Wi-Fi passwords, and other settings to Google servers. Additionally, This item helps restore the TB2002 system to factory settings.

Date& Time

Set date, time, time zone.

Accessibility

Allows you to install web scripts, set large text, touch and hold delay.

Developer options

Helps you manage the TB2002 system, such as USB debugging, Stay awake, HDCP checking and so on.

About Device

Display the information about TB2002, such as legal information, model number, firmware version, Build number and so on.

Chapter 4 Troubleshooting

Power on the TV box, but TV detects no signal

Make sure the HDMI /AV cable is securely connected firmly. Make sure the TV is selected for the correct HDMI/AV port.

Can't power on the TV box

Make sure the power adapter is correctly plugged, if the unit is powered on, the status indicator at the front panel will lights in red.

Can't connect to Wi-Fi or Ethernet network

Make sure you have connected to Wi-Fi network or Ethernet network, check whether the network has been successfully encrypted password.

TV display is not in full screen size

Please check the display settings.

Upgrading firmware

1. Put the firmware issued by the manufacturer to store in SD card.
2. Insert the SD card into the TV box before you power on it. Then reboot to automatically update, and the status indicator will blink in red.
3. After the upgrade is complete, the status indicator will not blink. And the TV box will boot into the Home screen, then you must eject the SD card and remove the upgrade folder, otherwise next time you will boot into re-upgrading status.

Maintenance

- If TV box does get wet, turn off TV box immediately. Wait for TV box to dry completely before turning on again.
- Clean the unit with a soft and dry cloth; be careful not to wipe it with anything abrasive.
- Never use alcohol, benzene, thinner, cleaning fluid or other chemicals. Don't use compressed air to remove dust.
- If TV box needs service, please consult the authorized dealer through the contact information provided in the warranty card. Faulty service may void the warranty.

Product Specifications

System Properties

Operating System: Android 4.0

Processor: A10

Architecture: ARM Cortex-A8

Speed: 1.2GHz

RAM Memory: DDR 512M

Storage memory

Built in memory: up to 32GB

Supports SD card: up to 32GB

Media File Format supported

Audio: MP3, WMA, AAC, WAV, OGG,

APE,FLAC,M4A,MID,MP4,

Photo: JPG, BMP, GIF, PNG

Video:MKV/VOB/RMVB/Divx/ASF/AVI/DAT/3GP/DIVX/FLV/M2
TS/M4V/MKV/MOV/MP4/MPEG1/MPEG2/RM(RV8/RV9)/RMVB
/WMV/TS/DVD

Connectivity

Data transfer: Mini USB 2.0 High Speed

Audio: phone jack (L/R Stereo audio),SPDIF,HDMI1.4

LAN : RJ45 (10/100MB)

Wireless connectivity

Wi-Fi : Built-in, 11b/g/n

Power supply

DC 5.0V, 2.0A

Physical properties

Weight: 250g (approx)

※ Design and specifications are subject to change without prior notice.

Disposal and Recycling Information

Your TV box must be disposed of properly according to local laws and regulations.

Because this product contains a battery, the product must be disposed of separately from household waste. When your TV box reaches its end of life, contact your local authorities to learn about recycling options.

Battery Replacement:

The battery in it should be replaced only by an authorized service provider.



This symbol on the product or in the instruction means that your electrical or electric equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU, For more information, please contact the local authority or your retailer where you purchased the product.