

# Raspbmc Quick Setup Guide



## Dear Raspberry Pi owner,

Welcome to the world of Raspberry Pi!

We've put the Raspbmc bundle together to make it super easy to set up your Raspberry Pi as a home media centre. Simply follow these step-by-step instructions and your Raspberry Pi will be able to play high-definition movies, music and photos in short order.

We realise that these instructions are basic, but they are basic for a reason: even if you have never plugged a cable into a socket, we want to help you start to use your Raspberry Pi. Engineers may want to jump to the later sections of this document.

This guide is intended to help you through the simple stuff. Raspbmc is quite accessible so don't worry about exploring the options that it gives you and learning by trial and error. You are not likely to break anything and even if you do, it is easy to reinstall Raspbmc on your SD card.

## What Do I Need to Get Started?

### Your Raspbmc bundle contains:

- 4 GB Class 4 SD card with Raspbmc preloaded
- 3 m Ethernet cable
- 1 m HDMI cable
- Wireless keyboard & touchpad media controller

### You will also need:

- Raspberry Pi Model B
- Power supply with a microUSB adaptor (1 A, 5 V)
- TV or monitor with HDMI connector (N.B. you can use the Pi-View HDMI-VGA adaptor if you would like to use an older monitor. However, the audio signal will be lost, so you will need to use the headphone jack on the Raspberry Pi).

### You may also want:

- WiPi USB dongle
- MPEG-2 codec (for playing the kind of files which originate media such as DVDs, as well as digital TV broadcasts)
- VC-1 codec (for playing files which originate from media including Blu-ray discs)

## First Time Setup

1. Connect the Ethernet cable from the Ethernet connector of the Raspberry Pi to your router. Make sure that your internet connection is working. You only need to do this the first time that you set up Raspbmc, so that the program can update itself to the latest version. Updates are enabled by default and can be disabled later if you want.
2. Connect the HDMI cable from the HDMI connector on your Raspberry Pi to the HDMI connector on your TV.
3. Plug the SD card into the slot on the underside of the Raspberry Pi. Make sure that the SD card is pushed all the way in so that it is making a good contact with the connectors.

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3. Click on **Video Add Ons**

4. Scroll down, select and install YouTube. This can then be used and configured according to your tastes (enabling / disabling safe search etc).

## Raspbmc Settings

By going to **programs > Raspbmc Settings** you can configure a wide range of options and settings including whether or not you want to overclock your Raspberry Pi. N.B. We don't advise selecting the "super" setting when overclocking as it can cause SD cards to corrupt.

## Enabling MPEG-2 or VC-1 Codecs

In **Raspbmc Settings** click on the tab at the top of the window which is labelled **System Configuration**. Here you can set passwords and manage updates to Raspbmc. If you scroll down to **Advanced System Settings** you can enable the codecs by simply typing in the license key that you can buy at **raspberrypi.com**. Hey presto!

To buy the license keys, you need to know the serial number of your Raspberry Pi. This is easy to find by typing: **cat /proc/cpuinfo** in the command line once you have booted your Raspberry Pi.

For further information on how this process works, and to buy the licenses, visit: <http://www.raspberrypi.com/mpeg-2-license-key/> or <http://www.raspberrypi.com/vc-1-license-key/>

## Using a Smartphone or Tablet to Control Raspbmc

If you would like to connect your smartphone or tablet to your Raspberry Pi, either to use as a controller, or to transfer media between the two devices, make sure that it is connected to the same network as your Raspberry Pi. There are several free apps you can download (both for Android and iOS) which will let your device act as a remote. Certain TV remotes are also supported natively in Raspbmc, with commands sent to the TV (as normal) and transferred via HDMI.

## Nightly Builds

To manually update Raspbmc, you can select "nightly builds". A nightly build is a version of the software which reflects its current state. These are not necessarily stable releases. However, you might find that it can help to fix issues when you start to experiment more with Raspbmc.

## Using SSH With Raspberry Pi

Secure Shell (SSH) is a way of executing commands on your Raspberry Pi directly from another computer. It's very useful for installing extra software on your Raspberry Pi and in the case of Raspbmc you may want to use it to include additional add-ons which aren't listed by default. Basically, what you are doing is "logging on" to your Raspberry Pi through a terminal on another computer.

There are lots of tutorials on how to do this, but since it is useful for Raspbmc, here's the process:

1. The first thing you need to find out is the IP address of your Raspberry Pi. This can be done by going to **System** and then **System Info**. The IP address will look something like this: **10.13.36.183**. Note this down for later use. You can also check your router settings and inspect which devices are connected to it to figure out the IP address of your Raspberry Pi, but it's much easier just to do it from Raspbmc.
2. Now, connect your computer using an Ethernet cable to the Ethernet jack on your Raspberry Pi.
3. If you're using a **Mac** or **Linux** computer, then open up a terminal and type: **ssh 192.168.1.111 -l pi** which will connect you to your Raspberry Pi. Just continue when you see the security warning as it is only trying to make sure that you know the remote computer that you're connecting to. You're now ready to enter your username and password.
4. If you're using a **Windows** computer, then you will need to download a tool called an "SSH client". There are many to choose from, but for simplicity, download PuTTY. Open the file **putty.exe**. Enter the IP address from step 1 and click **Open**, say **Yes** to the security alert and then you will be ready to enter your username and password.

- The username is **pi** and the password is **raspberry**. You won't see the password as you type it in: this is a security feature of Linux. For reference, this is the same username / password as the Raspbian operating system which you can download from [raspberrypi.org](http://raspberrypi.org).

### Example Raspbmc Plugin: BBC iPlayer (UK only)

- Connect via SSH to your Raspberry Pi and then from the console enter **cd** to change to your home directory (though you should already be there). Now type:

```
wget https://xbmc-iplayerv2.googlecode.com/files/iPlayer-v2.4.17.zip
```

N.B. the URL shown above is very likely to change as different versions of the app are developed. For this reason, you should navigate to the exact link yourself. Searching for "xbmc iplayer" will help you navigate to the correct URL in this instance.

This will put the zip file in the home directory of your Raspberry Pi.

- The next step is to boot up your Raspberry Pi as normal. In other words there's no need to use SSH from now on. As described in the previous section **YouTube and Other Add-ons**, navigate to **Video Add Ons**. Here you should see a .. at the top of the list, click this to get to the next list, followed by another click on another .. to land on a list of options including "install from zip file". Click on this, then choose **Home Folder** as the location of the zip file. Select it and then watch as it installs. This should complete the process.

### Further Reading and Online Help

This guide is by no means a complete resource. To learn about the more in-depth features of Raspbmc we recommend visiting: [raspbmc.com/wiki/user/](http://raspbmc.com/wiki/user/)

For further guides, tutorials and help from our online community, visit: [element14.com](http://element14.com)

#### Donate to Keep Raspbmc Afloat

Raspbmc is maintained by Sam Nazarko, who has worked incredibly hard to support XBMC on the Raspberry Pi. Please visit his site, where you can support Sam's work with donations:

[raspbmc.com](http://raspbmc.com)

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#### COMPLIANT WITH



N2272

FCC ID: YIZRT-MWK08

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.

This device has had its operation certified by the FCC and has been granted the following FCC ID: YIZRT-MWK08

#### WARNINGS:

Do not alter the frequency at which this product operates, doing so will breach the Radio and Telecommunications Terminal Equipment Directive 1995/5/EC.

Children must be supervised whilst using this product. This product poses a choke hazard and is not suitable for children under the age of four.

# QWERTY PAD

## User Manual



Mini wireless keyboard and touchpad

## Safety Notice

Please refer to all safety precautions covered in this manual to prevent personal injury or damage to the device.

The QWERTY PAD contains a lithium-ion battery. All safety precautions should be taken into consideration when handling or operating a device with this type of battery.

- ⚠ Do not drop, crush, heat or submerge in water.
- ⚠ Do not operate in environments with extreme humidity or temperatures (Hot or cold).
- ⚠ Do not operate or attempt to operate this device while driving or operating any moving vehicle.
- ⚠ Whilst on aircraft do not operate this device. This device may interfere with aircraft operations and communication devices.
- ⚠ Please turn off the device when around fuel or any combustible agents or chemicals.
- ⚠ Turn off this device in hospitals, failure to do so may cause interference with medical equipment or communication devices. As with all wireless devices, this product may interfere with implanted cardiac pacemakers, hearing aids and other medical implants.
- ⚠ Do not attempt to disassemble the device or replace the rechargeable battery. Doing so will invalidate the warranty.
- ⚠ Do not look directly into or point the LED light at eyes. Doing so may cause permanent damage or blindness.



This product should not be disposed of with household waste.  
Please recycle where facilities exist.  
Check with your local authority for recycling advice.

## Overview

Thank you for purchasing this QWERTY PAD. This device is a 2.4GHz wireless ultra mini keyboard with touchpad, complete with USB adaptor.

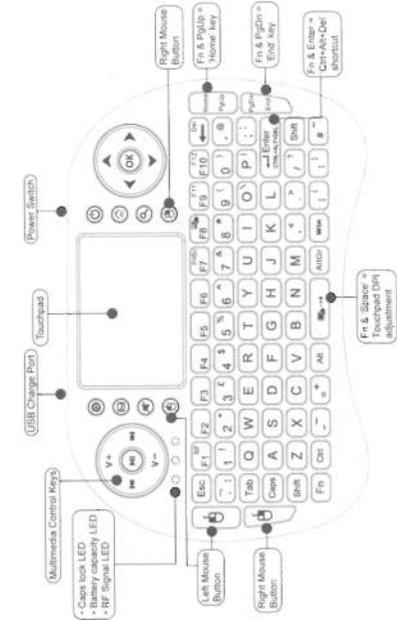
This product consists not only of a wireless keyboard, but also has multimedia control keys, along with PC gaming control keys, and also has a built-in touchpad. There are several indicator lights included with the unit: RF signal, CAPS LOCK, low-voltage, and also a keyboard backlight function, to enable use in low light conditions.

Ideal for use in a host of situations:

- Presentations or business meetings
  - Change slides or screen options
  - Emphasize words or objects
  - Type on screen
- HPTC, Android TV Box, IPTV, PC, PAD, Games Console, etc.
  - Browse the Internet (When connected to the internet)
  - Read and send e-mails (E-mail enabled products only)
  - Enjoy your favourite games
  - Watch TV-On-Demand services such as:
    - BBC iPlayer, ITV Player, 4OD, etc.
  - Watch Movie-On-Demand services such as:
    - Netflix, LOVEFILM, etc.

## Introduction

### Keyboard Layout Illustration



## Touchpad

The *QWERTY PAD* comes with a notebook style touchpad, which can be has an innovative functionality of a mouse wheel. To use simply press the 'Fn' button and slide your finger on the touchpad in the desired direction (up or down) in the highlighted area. As with a standard mouse wheel, this function enables the user to browse web pages and documents easier.

## Connecting to the receiver.

Slide out the receiver from the USB receiver storage compartment on the rear of the keyboard, and insert the receiver into a USB port on the computer / console. Once the receiver is inserted, turn the keyboard on by sliding the power switch to the 'ON' position. The device will then establish a connection to the receiver

## Auto sleep function

The *QWERTY PAD* also features an auto sleep function, if inactive for approx. 2 minutes; it will go into sleep mode. To wake the *QWERTY PAD* simply press any key or tap the touchpad. The keyboard's RF indicator will continue to flash during sleep mode.

## Switch the Keyboard off after use

When you have finished using the *QWERTY PAD*, please switch the device off by moving the power switch to the 'OFF' position. The USB receiver can be unplugged from your device and stored safely back in the keyboard, in order to prevent loss.

## Charging the Battery

This device contains a built-in lithium lithium-ion battery. Please use the USB-A to Mini-B cable provided to charge the device. Connect the USB-A connector to your computer / console, and the Mini-B connector to the USB charge port (as illustrated) in order to charge the device.

When the charge is low on the battery, the low-voltage light will flash. The unit will automatically turn off if the battery charge is depleted.

*Note: Please charge the unit fully prior to initial use. This device can be used whilst charging, but this will extend the charge time.*

## RF Matching

The device has been pre-coded at the factory to match the keyboard to the receiver. This ensures that two or more of the same device do not interfere with each other on the same wireless spectrum. In the event this device is conflicting with another wireless device, you can change the channel by pressing the 'Fn' key and 'F1' key for approx. 10 seconds. The RF signal LED will resume a slow flash confirming the change was successful.

## Technical Information

### Specifications:

- Dimensions (L x W x H): 146.8 x 97.5 x 19mm
- Weight: 110g
- Operational Range: up to 10m (30')
- Transmit power: +5db max.
- Operation Voltage: 3.3V
- Operating Current: < 50mA
- Charge Current: < 350mA
- Sleep Current: < 1mA

### Operating System Requirements:

- Windows CE / 2000 / XP / Vista / 7
- Linux (Tested working with: Debian 3.1, Redhat 9.0, Ubuntu 8.10, Fedora 7.0)
- Microsoft Xbox 360 (may require firmware update)
- Sony PS3 (may require firmware update)
- Android 2.2 or higher

### Maintenance

- Do not attempt to disassemble the device or replace the rechargeable battery. Doing so will invalidate the warranty.
- The battery will discharge if stored without use for a long period of time.
- Use only the supplied charging cables, failure to do so, may cause damage to the unit.
- Disconnect the device after the battery has been fully charged. Overcharging may shorten the battery life span.
- To clean the device, use a damp cloth with mild soap. Solvents and other cleaning agents may damage the unit.

## Troubleshooting

Below are some troubleshooting scenarios for the device. For further help please contact the place of purchase.

Problem	Possible Issue	Solution
Unit does not respond	<ol style="list-style-type: none"><li>1. Low Battery power</li><li>2. Unit is not switched on</li></ol>	<ol style="list-style-type: none"><li>1. Charge the device for approx. 15 min.</li><li>2. Check the switch is in the 'ON' position</li></ol>
Keyboard cannot establish a connection to the receiver	<ol style="list-style-type: none"><li>1. The receiver may not be inserted correctly</li><li>2. There is interference or device may not be within operating range</li></ol>	<ol style="list-style-type: none"><li>1. Disconnect the receiver and re-insert to the USB port</li><li>2. Move the keyboard closer to the receiver, and make sure there is not interference.</li></ol>
The mouse pointer moves erratically and/or unresponsive	<ol style="list-style-type: none"><li>1. Device may not be within operating range</li><li>2. Low charge on battery</li><li>3. Dust or oil on the touchpad</li></ol>	<ol style="list-style-type: none"><li>1. Move the unit closer to the receiver</li><li>2. Charge the device</li><li>3. Clean the touchpad with a damp cloth</li></ol>
The unit does not charge	<ol style="list-style-type: none"><li>1. Defective battery</li><li>2. Loose connections</li></ol>	<ol style="list-style-type: none"><li>1. Contact your place of purchase for replacement unit</li><li>2. Verify the cable is securely connected at both ends</li></ol>

## Box Contents

This package contains the following items:

Ultra mini wireless keyboard	1 unit
Wireless receiver	1 unit
USB-A to Mini-B charge cable	1 unit
User manual	1 unit

### Please Note:

The manufacturer reserves the right to amend the specifications without prior notice. The images in this manual are for illustration purposes only.