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DAWN ROBOTICS

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Home   Robot Kits   Raspberry Pi Camera Robot - Chassis Bundle
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Raspberry Pi Camera Robot - Chassis Bundle

Price:	**£48.99 (inc Tax)**
	£40.83 (exc Tax)
SKU:	DAWN1020
Brand:	Dawn Robotics
Weight:	0.64 KGS
Rating:	⭐⭐⭐⭐⭐ (23 product reviews)

WiFi:
- ◉ -- None --
- ○ Edimax EW-7811Un - 150Mbps USB WiFi - £12.99

Raspberry Pi:
- ◉ -- None --
- ○ Raspberry Pi Model B+ (512MB) B-Plus - £29.99
- ○ Raspberry Pi 2 Model B (1GB) - £32.99

Camera:
- ◉ -- None --
- ○ Raspberry Pi Camera Board (5MP, 1080p, v1.3) - £23.99

Preloaded SD Card:
- ◉ -- None --
- ○ Dawn Robotics MicroSD Card for Raspberry Pi - 8GB - £7.99

Battery Pack:
- ◉ -- None --
- ○ TeckNet iEP387 Power Bank with 2.54mm USB Power Cable - £25.99

Quantity: [1]   **ADD TO CART**

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Product Description

Build a Raspberry Pi camera robot that you can drive round your house using a tablet, smartphone or computer streaming the Pi's camera back to your device. This bundle contains the parts you need to build a robot using a Raspberry Pi, and Raspberry Pi camera based on this tutorial. This bundle has the added advantage that it comes with wires soldered onto the motors, and 2.54mm connectors crimped onto all of the wires. **No soldering required!** Just plug everything together and start exploring.

Please Note: This bundle **does not** by default include a **Raspberry Pi, Raspberry Pi camera, WiFi dongle,** or **SD card**, but these parts can be added if required. Please see the included parts list below for a full list of what's provided.
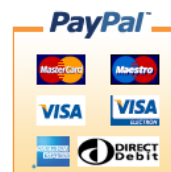
Features

- Easy to assemble mobile robot with lots of room for expansion

Delivery

FREE UK delivery for orders of £50 or more.

Otherwise, just **£2** for UK delivery. Royal Mail 1st Class

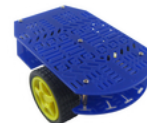Shipping to Europe, USA, Canada, India, Australia and New Zealand via airmail. More

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Click the button below to add the Raspberry Pi Camera Robot - Chassis Bundle to your wish list.

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Related Products

Dagu Magician 2WD Robot Chassis
£16.50 (inc Tax)
£13.75 (ex Tax)
⭐⭐⭐⭐☆

Raspberry Pi Camera Board (5MP, 1080p, v1.3)
£23.99 (inc Tax)
£19.99 (ex Tax)
⭐⭐⭐⭐⭐

Raspberry Pi Model B+ (512MB) B-Plus
£29.99 (inc Tax)
£24.99 (ex Tax)
Not Rated

Raspberry Pi 2 Model B (1GB)
£32.99 (inc Tax)
£27.49 (ex Tax)
⭐⭐⭐⭐⭐

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Accelerometer and
Compass V2.0 - LSM303D
£16.50 (inc Tax)
£13.75 (ex Tax)
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- See what your robot sees, as its camera images are streamed back to your browser
- Easy to use web interface lets you drive your robot and make it look around from afar
- All software is free to download and open source, easy to learn from and adapt for use in your own projects

Extra Requirements

In order to use this robot kit you will also need

- A Raspberry Pi - This kit works with the Raspberry Pi 2 Model B, the Raspberry Pi Model B+, and the Raspberry Pi Model B revision 2
- A Raspberry Pi Camera Module
- A USB WiFi dongle - we **highly** recommend the Edimax EW-7811Un
- An SD card at least 4GB in size. You can download the SD card image for free here, or buy a preloaded card from us.
- A WiFi connected device such as a tablet, smartphone, or computer which can run a modern HTML5 browser such as Google Chrome or Mozilla Firefox
- Batteries - The default option is to use 6xAA Rechargeable batteries (NiMh or NiCd) with the supplied 6xAA battery holder. These should ideally be high capacity batteries i.e. 2400mAh. Alkaline (non rechargeable) batteries are **not** recommended as they will struggle to provide enough current. Now, an alternative to using AA batteries is to instead use a USB battery pack, such as the TeckNet iEP387. This is a bit more expensive than rechargeable batteries, but has the advantage of longer running time (over 5 hours compared to ~3 hours), and the fact that you don't need to buy a recharger.

Included Parts

- Dagu 2WD chassis with wires soldered onto the motors and 2.54mm connectors crimped onto all wires
- Dagu Pan/Tilt Kit
- Dagu Arduino Mini Driver
- Raspberry Pi Fixing Set
- M2 Spacers, Washers and Screws (for mounting the Pan/Tilt kit)
- 6xAA Battery holder with 2.54mm connectors crimped onto wires
- Sensor Fixing Set
- Mini USB Cable - 1m
- 3A UBEC for Raspberry Pi

Useful Links

Tutorial explaining how to put the robot together and how to use it.

Tutorial explaining how to use the TeckNet iEP387 USB power bank to power the robot.

Tutorial showing how to write Python scripts to control the robot, and how to process images from the camera with OpenCV.

Tutorial showing how to connect a wide variety of sensors to the robot.

The site @Pi_Tutor has put together a great video showing the camera robot in a bit more detail.

Official Raspberry Pi Case
for Pi 2 or Pi B+
£5.99 (inc Tax)
£4.99 (ex Tax)
Not Rated

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Robot Kit
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£108.33 (ex Tax)
★★★★☆
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Accelerometer and
Compass V2.0 -
LSM303D
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Raspberry Pi Camera
Robot - Chassis Bundle
£48.99 (inc Tax)
£40.83 (ex Tax)
★★★★★
Choose Options

COMPARE SELECTED

Dani Thomas has put together an example showing how to control the robot with Wii Mario Cart controller.