UNIVERSITY OF Hull

DEPARTMENT OF COMPUTER SCIENCE

PRIZE PI NOTES

Congratulations. You've won one of our Raspberry Pi prizes. This is just a note to explain what you have won, and what you can do with it.

KIT CONTENTS

You've got all the bits that you need to start creating programs on the Raspberry Pi. We've also given you a sensor hat that you can use for some embedded fun, a keyboard and mouse and all the power supplies and cables that you need to get going. All you have to add is a display which supports HDMI video.

RASPBERRY PI 2 DEVICE

This is the very latest Raspberry Pi device which can run any one of the wide variety of Raspberry operating systems, and also Windows 10. Take a look here **https://www.raspberrypi.org/help/quick-start-guide/** and here **https://dev.windows.com/en-us/iot** for details. The Pi is packaged with a micro-SD card with the NOOBS version of the operating system. You can just pop this in the device and get started.

RASPBERRY PI SENSE HAT

The sense hat fits on top of the Raspberry Pi and provides a whole bunch of extra features. You can display awesome coloured graphics on the 8x8 multi-coloured LED array and use the joystick, accelerometer, barometer, pressure sensor and humidity sensor to make all kinds of cool devices. I'm thinking weather station to start off with, but there are lots of other directions you could go in. Take a look here for ideas **https://opensource.com/life/15/10/exploring-raspberry-pi-sense-hat**

KEYBOARD AND MOUSE

Where would we be without our keyboards and mice eh? These should mean that you don't have to steal ones from your other computer before you can get started. One other pro-tip; the Raspberry Pi can be a bit picky about the devices you plug into it. These are guaranteed to work, but not all do.

WIRES AND POWER

The power supply unit is Raspberry Pi approved, and the video cables will get you connected to your monitor. The Pi works a treat even on the largest telly and is a great device for media streaming.

HAVE FUN!

We hope you enjoy playing with your new toy.

If you make anything sensational we'd love to see it. Let us know at iMadeSomethingAwesome@wherewouldyouthink.com

If you want to get your own kit, this is the shopping list that we used at CPC (http://cpc.farnell.com/). Of course, other suppliers are available:

Line No.	Order Code	Mftr. Part No	Description
1	SC13930	RASPBERRYPI-SENSEHAT	ADD-ON BOARD, SENSE HAT FOR RASPBERRY PI; Core Architecture:AVR; Core Sub-Architecture:-; Features:8x8 LED matrix display, Accelerometer / Gyroscope / Magnetometer / Air Pressure
2	SC13795	RPI2-MODB-8GB-NOOBS	SBC, RPI 2 MODEL B AND 8GB NOOBS; Core Architecture:ARM; Core Sub-Architecture:ARM7; Features:Quad Core CPU, 1GB RAM, 900MHz Board Clock Speed, 40 GPIO Pins, 4 x USB Ports, 4 Pole Stereo
3	PW03772	SW4544	POWER SUPPLY, MICRO USB, 5V/1.8A; Input Voltage AC Max:264VAC; Input Voltage AC Min:90VAC; Output Connector:USB Micro; Output Current Max:1.8A; Output Power Max:9W; Output Voltage Nom.:5V; Power Supply Output Type:Fixed;
4	CS17229	A4-KL-5UP BLK	KEYBOARD, MINI SLIM BLACK, A4 TECH; Computer Connector:USB; Connection Method:Wired; Keyboard Colour:Black, Silver; Keyboard Size:Compact
5	CS18649	PSG08392	MOUSE, 3D OPTICAL USB; Computer Connector:USB; Connection Method:Wired; Mouse Colour:Black / Silver; Mouse Size:Notebook; Mouse Type:Optical; Colour:Silver and Black; Available until stocks are exha
6	AV20601	PSG03534	HDMI LEAD, HIGH SPEED, 2M; Cable Length - Imperial:6.56ft; Cable Length - Metric:2m; Connector Type A:HDMI Plug; Connector Type B:HDMI Plug; Jacket Colour:Black; Cable Assembly Type:Audio, Video

Rob Miles

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