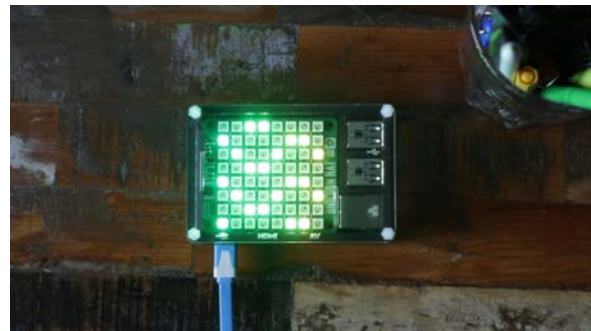


# Unicorn HAT

PIM054



What's going to protect your beloved Raspberry Pi from an onslaught of rainbow-coloured fusion? That's right, it's Unicorn HAT.

Sporting a matrix of 64 (8 x 8) RGB LEDs and powered directly from the Pi, this is the most compact pocket aurora available.

Unicorn HAT provides a wash of controllable colour that is ideal for mood-lighting, 8x8 pixel art, persistence of vision effects, status indications, or just blasting colour into your surroundings.

The MagPi said that Unicorn HAT was *"one of the coolest HATs around"*

## Features

- 64 RGB LEDs (WS2812B)
- LED data driven via DMA over PWM
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, and Zero W
- Python library
- Comes fully assembled

## Software

We've put together a Unicorn HAT Python library to make it a breeze to use, including lots of beautiful examples of what it can do.

## Notes

- **Warning:** WS2812 LEDs are bright enough to cause eye pain, do not look at them directly when brightly lit. We recommend the use of a diffuser.
- **Photo-sensitivity warning:** flashing, strobing, and patterns of lights may cause epileptic seizures. Always take care and immediately stop using if you feel unwell (dizziness, nausea, affected vision, eye twitching, disorientation).
- **Power:** Unicorn HAT requires a >2A microUSB power supply for your Pi. We recommend the official Raspberry Pi power supply.
- **Compatibility (audio):** as Unicorn HAT uses PWM and GPIO18, it will interfere with analogue audio playback (random colour patterns and flickering). HDMI should work just fine! :D