



M42 Macro Ring Light

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Summary

Often with macro photography and filming it is hard to get good light on the subject.

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Often with macro photography and filming it is hard to get good light on the subject. I use a system of extension tubes on my DSLR which gives great magnification, but has the downside that the subject has to be VERY close to the lens, which leaves little room for lights to be positioned.

Video of building this project:- https://youtu.be/vF2By_FX-IQ

So this is a solution I came up with, a Ring Light specifically designed for my lens and for macro work.

I already had a reel of 4000k, 95+CRI LED tape for a future project, so I measured up what is the minimum segment length is (50mm on this tape) and this determined the length of the “dish” of the macro ring.

Because of the need to have the subject so close to the front of the lens, I decided to angle the LEDs to provide a (hopefully) better coverage. This also makes it much easier to 3d print. Also because of the close proximity

of this Ring Light to the subject, I cut away pieces of the 3d model to make it possible to see in.

Then after it was printed it was on to assembly

LED tape found here:- <https://www.amazon.co.uk/gp/product/B07B527NW6>

Brightness controller (PWM speed controller) found here:- <https://www.amazon.co.uk/gp/product/B08PJ349QF>

My blog:- www.pdkh.co.uk

Print Settings

Printer Brand:

Anet

Printer:

A8

Rafts:

No

Supports:

No

Resolution:

0.2mm

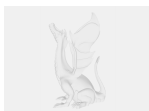
Infill:

20

Filament: Sunlu PETG white

Category: Camera

Model files



m42_light_ring_v2.f3d

light_ring_mk1.stl

[Find source .stl files on Thingiverse.com](#)

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