

MAKE YOUR OWN MICROSCOPE

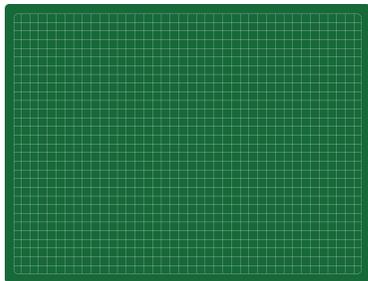
INSTRUCTION SHEET



MAKERIVERSITY DIY MAKING TOOLS FOR LEARNING

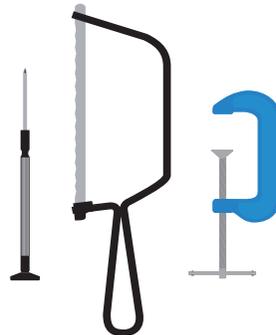
Copyright © Makeriversity

- 1 DISMANTLE YOUR WEBCAM**
Using a precision screwdriver where needed, unscrew the back and carefully remove the webcam casing.
- 2 REMOVE THE LENS**
Making sure to keep all of your parts safe, remove the lens from its holder by hand and look through it.
- 3 CUT DOWN THE LENS**
Using your hacksaw, carefully cut straight through the barrel of the lens casing and reinsert into holder.
- 4 ASSEMBLE AND EXPLORE!**
Can you see the difference? Look around you and explore up close! Can you build a stand for it?



YOUR KIT

Laptop or tablet
Cutting mat
Precision screwdriver
Junior hacksaw
Small G-Clamp
Ruler & scalpel
Calipers (if available)



SWITCH

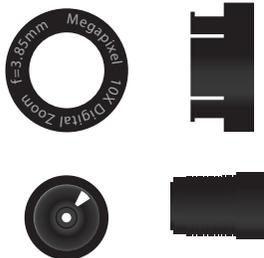
This dial is used to adjust the light levels of your LEDs.

USB

Your power cable: found in many modern electronic devices.

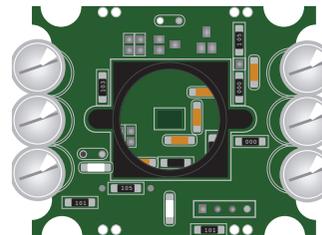
LENS

The lens comprises the outer and inner casing, the latter contains the lens itself. Lenses work through a process called refraction.



CIRCUITBOARD

The circuit board acts like the brain of the webcam, it controls each of the components and sends instructions to them.

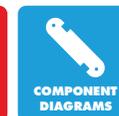


MORE FROM US?

makeriversity.education
[@makeriversityDIY](https://twitter.com/makeriversityDIY)



STEP-BY-STEP
INSTRUCTIONS



COMPONENT
DIAGRAMS



KEY VOCAB
EXPLAINED



TOOL KITS,
HINTS & TIPS