

BUILD A SHADOW SCOPE FOR UNDER \$20 (PART 1)

Follow along as we shop for the supplies needed to build a shadow scope at home for under \$20!

To start out, let's talk about the supplies that are required in order to build & use a scope:

- 1

Webcam
w/ USB
connectivity
- 2

Light
Blocker
(see below)
- 3

Silicone
- 4

Flashlight
- 5

Small
Screwdriver
(flathead &
philips)
- 6

Tape
- 7

Scissors
- 8

Thumbtack
- 9


Pencil
- 10

Computer

LIGHT BLOCKER

To create shadows, we need darkness! So, you need to find something to cover your camera to block the external light. We chose to use a frozen limeade can, but any similar container that blocks all light would work, too!

SHOPPING DESTINATION 1 -- WALMART



I wanted to try to build this scope with supplies that I could find at local stores, so I could avoid having to wait for my items to get delivered. So for that reason, I started my journey at place that seems to have everything: Walmart.

So, I headed off to my local Walmart (it was a nice snowy day) and started looking around for the supplies I needed!

\$5.56 SPENT

\$14.44 of \$20 remaining

NOTES

You are looking for Silicone to help keep the internal components of the webcam sealed away from any water samples. So, you want one that is waterproof and is safe to use indoors!

As for flashlights, you are looking for one that is really bright! And also, preferably, only has one LED.



Silicone
\$3.77



Flashlight
\$1.00

SHOPPING DESTINATION 2 -- GROCERY STORE



Unfortunately, Walmart only had webcams that cost \$27 or above... and this is more than I was hoping to spend! I needed to do some research about where I could pick up a webcam.

Nevertheless. I knew for sure that my local grocery store would have the limeade cans that I needed, so I headed that way! The limeade can would act as a great light blocker.

\$1.99 SPENT

\$12.45 of \$20 remaining

HELPFUL HINT:

Try to find something you might already have around the house to use for your light blocker! One, this saves money. Two, its a fun way to get creative and make your own unique Shadow Scope. We use a limeade can, but think about what else could work... a pringles can, a small cardboard box... The possiblities are endless!



Limeade
\$1.99



720p Webcam
\$10.87

SHOPPING DESTINATION 3-- MICROCENTER

The last item I needed to purchase on the list was a webcam. I had the remaining supplies available to me at home. So, I decided to to my local computer supply company and pick up a webcam there... Microcenter!

I found a camera that fit perfectly in the budget!



\$10.87 SPENT

\$1.58 of \$20 remaining

THAT'S IT! *We spent a total of \$18.42 on supplies.* Now we can combine the new supplies we bought with everything we already have at home to build a Shadow Scope!! Check out [Part 2](#) to see the building process.