

Comp Photography (Term 2015)

HW 5

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The Scene



The Image



and the image on
ceiling



The Setup

I built a room camera obscura. The scene is the view from my room window. I have a small hole less than size of quarter u.s coin. The images are project on my wall and ceiling of my room.

1. What was the site of your camera obscura experiment?

- I use my bedroom to experiment camera obscura.
- I use to aluminum foil to cover the window and have a little hole about the size of quarter U.S coin
- I use the wall of the opposite size of window as a view

2. Why was it appropriate? What did you have to do to make it appropriate?

- The camera obscura is one of the oldest concept in optics. As simple method a small hole in a darkened room.
- I covered my door room window and turn it to darkened room and make a small hole and see image on the wall upside-down
- A smaller hole, the image gets sharper

3. Was the image visible to naked eye?

- Yes, I can see it well.
- I could see the image on the wall and it also see on my ceiling

4. Who helped you with this assignment? In what way?

- I done it by myself. I watched the youtube link from the assignment. I started with made the box camera obscura first.
- The box camera obscura works fine, but I couldn't get a nicer pictures. So, I decided to turn my room into a Giant Camera Obscura to get better pictures.



The “Scene”

This is the view that can see from my room’s window. So, I use this as a scene for the room camera obscura.



The “Image”

This is the image on the wall of my room camera obscura. I capture use the Canon EOS T5. I use M mode to capture long exposure with ISO 200, F6.3, and 8 seconds exposure time.

I also did some color enhancement using GIMP software.



The “Setup”

This is the only window in my room and I covered it up using aluminum foil and addition dark sheet to ensure blocked all light and turn a room to darken. And use it for camera obscura.

I also have camera tripod for this setup.



and addition image
projected on the
ceiling of the same
scene

This another project image on the ceiling of
my room. It showed the table and shades
from the scene of window outside.

Boxes Camera Obscura

- I first started with build boxes camera obscura. I can see my box camera works fine, but it hard to hold a box camera to take pictures.



2 different size of box camera obscura.

- 1) The 1st one, I can the coke can to build the top of the camera.
- 2) The 2nd one, I added the magnifier glass & bigger size of tracing paper to get better view.

After box camera, try room camera

What would you do differently?

The boxes camera works fine, and I put my camera inside the box to take picture, but i didn't get a very good image it hard to hold a box and take pictures.

So, I decided to use my room camera obscura instead and it's easy to use tripod to take picture that way. It come out easier to take picture. It's great weekend project!

Other details.

- I tried different size of pinhole on my window. The smaller hole, image get sharper but the projected image on my wall become dimmer. With too small a pinhole, the sharpness get worsens, due to diffraction.
- The bigger hole, projected image brighter will be and potential fuzzier the image may look. Conversely, the smaller hole, sharper image but darker it will be.
- I also tried different a shutter speed, aperture, ISO, and exposure period time