

T436 Week 3 Camera Filter Exercise

Your name _____

Your partners: _____

Objectives:

- Become familiar with using filters with the Canon XLH1

This exercise is worth 20 points broken down as follows: (Questions on this page and shot log: 7 pts, tape & slates: 8 pts, critique: 5 pts)

You'll need a gray card, light meter, Canon XLH1, matte box and filters.

NOTE: You can team up to carry out this project and share a tape. However each group member will have to fill out his or her own assignment, review the recorded tape, and write his or her own critique.

Matte box notes:

Do not transport the camera with the matte box attached. This will stress the support rods. They are only designed to hold the sunshade.

Before using filters:

- Wash your hands!
- Make sure you know where the sunshade's frame holder locking knobs are located. Loosen one and pull out a frame holder. Note the knob that holds the filter in place. Do not confuse the two.
- Handle filters only by the edges.
- If it's necessary to clean a filter, do so only with optic cloth.

As a group, take turns doing the following.

- Attach the matte box base to camera. Securely mount on tripod
- Attach support rods to base
- Attach sunshade/filter holder assemble to support rods
- Attach eyebrow to sunshade

Individually, follow the instructions below and capture the required shots. You'll need to review your shots when finished and turn in a critique. Please attach your critique to the printed pages outlining the assignment.

Section 1 - Camera rating

Turn the XLH1 on to Tv (shutter priority) mode. Make sure:

- You're using the proper WB preset for your location (e.g. indoor)
- Your gain is set to 0
- There are no ND filters in place
- Your shutter is set at $1/60^{\text{th}}$ of a second. (TV 60 in the viewfinder)

Evenly & brightly illuminate a gray card.

Zoom in and fill the entire screen with grey.

Press the "Exp lock" button on the XLH1 a few times to toggle it into auto iris mode and back to manual mode. What f-stop does the camera choose?

Take your light meter and make sure it's set to 30 fps (or $1/60^{\text{th}}$ of a second). Dial the ISO until the f-stop matches what you recorded for the camera.

What ISO reading? _____

Section 2 - ND filters

Record 30 seconds of color bars.

You'll need at least 2 different ND filters for this section. Take out an ND filter. What is the ND number? _____.

Insert the 1st ND filter into the matte box. Press the "Exp. Lock" button a few times to take a new auto iris reading. What f-stop does the camera want to use for the gray card? _____

Approximately how many stops did it take off? _____

Insert the other ND filter. What is its ND# _____

Press the "Exp lock" button a few more times to get another auto iris reading. What does the camera choose as its f-stop? _____

How many stops did it take off? _____

Section 3- enhancing filters

Find a nice location and compose a nice medium close-up of one of your partners. Make sure it's properly exposed. Try to achieve a small DOF- so the background is out of focus.

Shoot at least 5 seconds of slate (audible and visible noting your name and the fact that you aren't using any filters) followed by at least 15 seconds of your

partner at a MCU. Follow this with an ECU for at least 10 seconds. As you record your shot you can state that you are NOT using any filters.

Choose a filter and write down your selection. Filter #1 _____

Try to recreate the shots you took of your partner- framed exactly the same way. As you record your partner, audibly slate the shot. (State what filter you are using.)

Now choose another filter and note your selection. Filter #2 _____

Recreate and record the same two shots but with filter #2. As you record be sure to state what filter you are using.

Choose a third filter and repeat the shots and slate. Filter #3 _____

Section 4 - Polarizing filter

Find a window or some glass that has an object partially blocked by a reflection.

Record a visible and audible slate. Then record at least 10 seconds of the window/glass and reflection. Don't move the camera - keep it exactly the same.

Insert a polarizing filter and rotate it until you minimize the reflection. Record another 10 seconds of the shot while you audibly state that you're using the filter.

Section 5 - ND gradient or star filter

Choose a last filter and write down your selection. Filter: _____

Find a shot that will benefit from the filter. Record at least 10 seconds of the shot without the filter, followed by at least 10 seconds of the same shot with the filter. Be sure to record an audible slate while taping.

Critique

Examine the footage you shot. Write a 1-2 page critique describing your success (or lack of) with each filter. Describe the thoughts / experience you had with this assignment.

Turn in your typed critique, along with this assignment, and tape.