

DISCUSSION

w2 9/13

REVIEW

Exposure

- Shutter; Exposure Time
- ISO; Exposure Sensitivity
- Aperture; Exposure Amount

Exposure for Story

- Shutter; image Motion Blur
- ISO; image Fidelity
- Aperture; Image Focus (DOF)



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9/13/21 FT353g Production I slide 1

DISCUSSION week 2 (9/13)

REVIEW

1. Comprehension

▸ Shutter; exposure time

Camera shutter set at 180° angle.

Camera frame rate set at 24 frames per second.

Exposure time is 1/48 of a second. Half (180° is half 360°) the time for each frame.

▸ ISO; exposure sensitivity

Large numeric value is more sensitive w less fidelity and Small numeric value is less sensitive w/more fidelity.

Expressed as "speed" with Larger number value being "faster" and Smaller number value "slower"

▸ Aperture (iris); exposure amount

Large numeric value lets in less light w more focus and Small numeric value lets in more light w less focus.

Expressed as "speed" with Larger number value being "slower" and Smaller number value "faster"

2. Storytelling

▸ Shutter; Visually "normal" motion blur.


▸ ISO; Visually "supports" story theme, feeling, genre.

▸ Aperture; Visually "supports" story focus, attention, "z" axis depth (foreground, mid-ground, background).

PICTURE; Camera (c100) w2 9/13

CAMERA

1. Set Up and Operation
 - 24P (23.976)
 - Shutter Angle (180°)
 - ISO (select)
 - Format (media card)
2. Lens
 - FPS c100 Kit
 1. focal length 2. speed
 - Focal Plane
 - Focus Assist (MAG Digital Zoom) DEMO
 - Focus Assist (Peaking) DEMO
3. Tripod
 - FPS "medium" tripod



RECORD SETTINGS

frequency: 59.94 Hz (default)	TC: NDF (59.94Hz/24P specific)
bit rate: 24 Mbps LPCM (default)	file: AVCHD
shutter: 180°	color sample: 4:2:0 8bit (internal SD)
frame rate: 24P (23.978)	compression: MPEG-4 AVC/H.264
	4G SDHC ≈ 20min. record time

QUICK SET-UP

1. RESET Default Settings
 - default: MENUⓂ ▶ Other Functions ▶ Reset ▶ All Settings
2. SETUP Camera
 - black level: MENUⓂ ▶ Camera Setup ▶ ABB ▶ OK (w/body cap on)
 - shutter: MENUⓂ ▶ Camera Setup ▶ Shutter ▶ Mode ▶ Angle
 - frame rate: MENUⓂ ▶ Other Functions ▶ Frame Rate ▶ 24P
3. SELECT ISO
 - ISO/GAINⓂ (ISO values displayed with Function Reset)
4. SELECT Color Temperature
 - WBⓂ Tungsten(3200K) · Daylight(5400K) · Kelvin* · Custom A · Custom B
5. FORMAT media
 - MENUⓂ ▶ Other Functions ▶ Initialize Media

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PICTURE; Camera (c100) week 2 (9/13)

Camera

1. **c100**; TechSheet_Canon(c100)
 - ▶ Quick Set-Up
 - ▶ Shutter DEMO coin spin with high shutter
 - ▶ WB; Color Temperature DEMO 3200°K Tungsten vs. 5600°K Daylight
 - ▶ ISO DEMO low vs. high
 - ▶ Focus Assist DEMO peaking lines
 - Peaking; reference showing image focus contrast
 - Digital Zoom; magnify image on display, NOT on sensor
2. **lens**
 - ▶ focal length; frame size, **Field of View**
 - ▶ speed; F stop
 - ▶ minimal focus; how close can image get to **Focal Plane**
 - ▶ FPS c100 kit
 - WIDE**; 20mm, f2.8
 - NORMAL**; 50mm, f1.4
 - TELEPHOTO**; 100mm, f2
3. **tripod**
 - ▶ sticks/legs
 - ▶ spreaders
 - ▶ pan handle
 - ▶ head
 - ball base
 - base plate
 - tilt; lock, resistance
 - pan; lock, resistance

REFERENCE

Blackboard; TechSheet_Canon(c100)

Blackboard; Manual_Canon(c100)

PICTURE; Camera (slate) w2 9/13

SLATE

- Picture Reference
 - visual identification
 - visual sync mark
- Information
 - Production Show Title
 - Camera Roll # and Camera ID
 - Scene # and Shot ID
 - Take # and Take "info"
- Etiquette for MOS
 - sticks closed, MOS noted
 - before start; full frame, in focus
- Grey Card

DIRECTOR: LAST NAME
CAMERA: LAST NAME
DATE: 00/00/00 Day Nite Int Ex Mos Sync
Filter 24FPS

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PICTURE; Camera (slate) week 2 (9/13)

SLATE

1. Picture Reference

- visual reference identifying picture
- audible reference for sync

2. Information

- PRODUCTION; name of the show
- ROLL; reference multi-cam letter and camera roll # (media card)
- SCENE; reference story scene # and scene shot letter (coverage)
- TAKE; scene take # (version) DO NOT USE LETTERS "I" or "O" FOR ROLL AND SCENE ID.
- DIRECTOR; name of director
- CAMERA; name of cinematographer
- DATE; production day date
- DAY-NIGHT; story daytime or night time (for lighting reference)
- FPS; frame rate of camera (for sync reference)
- MOS-SYNC; scene will sync with sound or has no sound to sync MOS (with out sound)
MOS fun fact: German director mis-pronounced "with" as "mit"

3. Process for MOS

- with dry erase; fill out slate information
 - Circle MOS and/or write MOS vertically next to take #
 - 1st "shot" for a scene is scene # only, 2nd "shot" for same scene is #A, 3rd "shot" is #B, 4th #C ...
- place slate in frame
 - Sticks Closed
 - Fill Frame
 - In Focus
- start camera (record "rolling")
- remove slate
- director calls "action" – actor(s) play out scene – director calls "cut"
- stop camera

GREY CARD

1. Exposure Reference