

# C300 MK II Settings Card

Last Modified on 07/29/2024 1:29 pm EDT

## C300 MK II Settings

Before every shoot, program the following primary settings on your camera.  
When in doubt, seek assistance from Camera Faculty or Production Center Staff.

### Camera Set Up:

ISO/Gain: Canon Log 2/3 - 800, Canon Log 1 - 500

! Change ISO in these increments: 200, 400, 800, 1600, 3200 (Cleaner image at full stops)

Shutter: Angle / 180

Extended ND: OFF, if ON - Check focus!

### Custom Picture: choose one per each category, grade accordingly

Gamma: Canon Log 2 (Potential for more noise\*, grading required), Canon Log 3 (Less noise, grading required) or  
Normal 4 (No LUT, grading required)

Color Space: Cinema Gamut (grading required) or BT 709 Gamut (No LUT required)

Color Matrix: Neutral or Cinema EOS Original (ONLY if matching footage to Generation 1 EOS Cameras)

! Never select "Video" for matrix

! If using Presets, the Color Matrix defaults to "Neutral"

! Middle Gray Values: Canon Log 1 & 3 = 34.3% / Canon Log 2 = 39.8%

\*See Filmguide for article on Canon Log 2 Luminance Banding/CMOS Smearing Issues

### Audio Set Up: (Note: audio should be reordered to the 633!)

Audio Bit Depth: 24 Bit

Audio Output: Monitor Channels CH1/CH2

Audio Input: For single system recording from mixer, turn Phantom Power off & set to "LINE"

! Turn off Mic built into camera to not record crew sounds

### Recording / Media Set Up:

System Frequency: 59.94

Frame Rate: 23.98P

! To shoot 60-120fps, you must enter "Slow & Fast Motion (crop)" Mode and shoot in 10 Bit

Resolution/Color SubSampling: Choose one below

\*1920x1080 YCC422 10 bit

\*1920x1080 RGB444 12 bit

\*2048x1080 YCC422 10 bit

\*2048x1080 RGB444 12 bit (Max resolution while maintaining max color/image quality)

\*3840x2160 YCC422 10 bit

\*4096x2160 YCC411 10 bit

### Assistance Functions:

Peaking: ON

Zebra: ON / 70% (Skintone), 90% (Highlights), 100% (Highlight Clipping)

Markers: ON / Center - White

LUT: ON\* (if shooting Log) / Mon. & HDMI - B.T. 709

Waveform: ON / LCD

\*Set Assignable Button #10 on LCD to "LUT" to toggle LUT OFF/ON

! Use TV Logic Waveform Monitor to evaluate exposure

## C300ii SETTINGS

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Color Matrix: Neutral / Cinema EOS Original (ONLY if matching footage to Generation 1 EOS Cameras)

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**Audio Set Up:** (Note: audio should be reordered to the 702T!)

Audio Bit Depth: 24 Bit

Audio Output: Monitor Channels CH1/CH2

Audio Input: For single system recording from mixer, turn Phantom Power off & set to "LINE"

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Frame Rate: 23.98P

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Resolution/Color SubSampling: Choose one below

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\*1920x1080RGB444 12 bit

\*2048x1080YCC422 10 bit

\*2048x1080 RGB444 12 bit (Max resolution while maintaining max color/image quality)

**! Due to hardware requirements (RAID/Solid State Drives/Graphics Card)**

**and screening limitations, 4K shooting is not recommended.**

Bit Rate: Intra-Frame



### Assistance Functions:

Peaking: ON

Zebra: ON / 100%

Markers: ON / Center - White

LUT: ON\* (if shooting Log) / Mon. & HDMI - B.T. 709

Waveform: ON / LCD

\*Set Assignable Button #10 on LCD to "LUT" to toggle LUT OFF/ON

**! Use TV Logic Waveform Monitor to evaluate exposure**



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