



TECHNICAL BULLETIN

4K AND UHD TV QUICK SETTINGS GUIDE ONBOARD S RECORDER AND CANON C500

REVISION 11.05.2012

Canon



4K Quick Settings Guide - Codex Onboard S Recorder and Canon C500

The “My Menu” feature on the C500 allows you to create a customised menu of up to 14 settings for easy access. To add settings go to [My Menu] > [Edit] > [Register] and navigate to the menu setting that you want to add. Select [OK] and then press SET twice to add this setting to your customised “My Menu”.

Standard Frame Rates

What frame rate are you shooting?	23.98	24.00	25.00	29.97	50.00	59.94	100.00	119.88
Canon C500 settings								
[4K/2K] ▶ System Priority	4K	4K	4K	4K	4K	4K	4K	4K
[4K/2K] ▶ System Frequency	59.94	24.00	50.00	59.94	50.00	59.94	50.00	59.94
[4K/2K] ▶ [4K (4096/3840)] ▶ Resolution	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	HRAW/4096x1080	HRAW/4096x1080
[4K/2K] ▶ [4K (4096/3840)] ▶ Frame Rate	23.98	24.00	25.00	29.97	50.00	59.94	50.00	59.94
[4K/2K] ▶ Special Rec	Off	Off	Off	Off	Off	Off	Slow & Fast Motion	Slow & Fast Motion
[4K/2K] ▶ S&F Frame Rate	N/A	N/A	N/A	N/A	N/A	N/A	[100]	[120]
Single Link or Dual Link signal (cable setup)	Single Link	Single Link	Single Link	Single Link	Dual Link*	Dual Link*	Dual Link*	Dual Link*
Codex Onboard S Settings								
[Setup] ▶ [Video] ▶ Format	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x1080	Canon-4096x1080
[Setup] ▶ [Video] ▶ Fps	23.98	24.00	25.00	29.97	50.00	59.94	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	SQ	SQ	SQ	SQ
[Setup] ▶ [Video] ▶ Channels	1	1	1	1	1	1	1	1
[Setup] ▶ [Video] ▶ Variframe	Off	Off	Off	Off	Off	Off	Off	Off
[Setup] ▶ [Timecode] ▶ Tc Source	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC
[Setup] ▶ [Timecode] ▶ Fix Tc Breaks	No	No	No	No	No	No	No	No
[Setup] ▶ [Timecode] ▶ Metadata	Canon	Canon	Canon	Canon	Canon	Canon	Canon	Canon

Non-standard Frame Rates

What frame rate are you shooting?	1.00-25.00	0.99-29.97	1.00-30.00	26.00-50.00	31.96-59.94	32.00-60.00	52.00-100.00	61.94-119.88
Canon C500 Settings								
[4K/2K] ▶ System Priority	4K	4K	4K	4K	4K	4K	4K	4K
[4K/2K] ▶ System Frequency	50.00	59.94	24.00	50.00	59.94	24.00	50.00	59.94
[4K/2K] ▶ [4K (4096/3840)] ▶ Mode	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	RAW/4096x2160	HRAW/4096x1080	HRAW/4096x1080
[4K/2K] ▶ [4K (4096/3840)] ▶ Frame Rate	25.00**	23.98**	24.00**	50.00**	59.94**	24.00**	50.00**	59.94**
[4K/2K] ▶ Special Rec	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion
[4K/2K] ▶ S&F Frame Rate	1-25.00	1-30.00 (/1.001)	1-30.00	[26.00]-[50.00]	[32.00]-[60.00](/1.001)	[32.00]-[60.00]	[52.00]-[100.00]	[62.00]-[120.00] (/1.001)
Single Link or Dual Link signal (cable setup)	Single Link	Single Link	Single Link	Dual Link*	Dual Link*	Dual Link*	Dual Link*	Dual Link*
Codex Onboard S Settings								
[Setup] ▶ [Video] ▶ Format	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x2160	Canon-4096x1080	Canon-4096x1080
[Setup] ▶ [Video] ▶ Fps	25.00	29.97	30.00	50.00	59.94	60.00	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	SQ	SQ	SQ	SQ	SQ
[Setup] ▶ [Video] ▶ Channels	1	1	1	1	1	1	1	1
[Setup] ▶ [Video] ▶ Variframe	On	On	On	On	On	On	On	On
[Setup] ▶ [Timecode] ▶ Tc Source	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC
[Setup] ▶ [Timecode] ▶ Fix Tc Breaks	No	No	No	No	No	No	No	No
[Setup] ▶ [Timecode] ▶ Metadata	Canon	Canon	Canon	Canon	Canon	Canon	Canon	Canon

* Dual Link cables must be connected correctly - 3G-SDI 1 > INPUT 1, 3G-SDI 2 > INPUT 2. Incorrect connection of cables will result in bad recordings.

** When using MXF recorded to in camera CF card, set the Frame Rate to be correct for your project editing rate.

UHD TV Quick Settings Guide - Codex Onboard S Recorder and Canon C500

The “My Menu” feature on the C500 allows you to create a customised menu of up to 14 settings for easy access. To add settings go to [My Menu] > [Edit] > [Register] and navigate to the menu setting that you want to add. Select [OK] and then press SET twice to add this setting to your customised “My Menu”.

Standard Frame Rates

What frame rate are you shooting?	23.98	24.00	25.00	29.97	50.00	59.94	100.00	119.88
Canon C500 settings								
[4K 4K/2K] ▶ System Priority	4K	4K	4K	4K	4K	4K	4K	4K
[4K 4K/2K] ▶ System Frequency	59.94	24.00	50.00	59.94	50.00	59.94	50.00	59.94
[4K 4K/2K] ▶ [4K (4096/3840)] ▶ Resolution	RAW/3840x2160	RAW/3840x2160	RAW/3840x2160	RAW/3840x2160	RAW/3840x2160	RAW/3840x2160	HRAW/3840x1080	HRAW/3840x1080
[4K 4K/2K] ▶ [4K (4096/3840)] ▶ Frame Rate	23.98	24.00	25.00	29.97	50.00	59.94	50.00	59.94
[4K 4K/2K] ▶ Special Rec	Off	Off	Off	Off	Off	Off	Slow & Fast Motion	Slow & Fast Motion
[4K 4K/2K] ▶ S&F Frame Rate	N/A	N/A	N/A	N/A	N/A	N/A	[100]	[120]
Single Link or Dual Link signal (cable setup)	Single Link	Single Link	Single Link	Single Link	Dual Link*	Dual Link*	Dual Link*	Dual Link*
Codex Onboard S Settings								
[Setup] ▶ [Video] ▶ Format	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x1080	Canon-3840x1080
[Setup] ▶ [Video] ▶ Fps	23.98	24.00	25.00	29.97	50.00	59.94	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	SQ	SQ	SQ	SQ
[Setup] ▶ [Video] ▶ Channels	1	1	1	1	1	1	1	1
[Setup] ▶ [Video] ▶ Variframe	Off	Off	Off	Off	Off	Off	Off	Off
[Setup] ▶ [Timecode] ▶ Tc Source	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC
[Setup] ▶ [Timecode] ▶ Fix Tc Breaks	No	No	No	No	No	No	No	No
[Setup] ▶ [Timecode] ▶ Metadata	Canon	Canon	Canon	Canon	Canon	Canon	Canon	Canon

Non-standard Frame Rates

What frame rate are you shooting?	1.00-25.00	0.99-29.97	1.00-30.00	26.00-50.00	31.96-59.94	32.00-60.00	52.00-100.00	61.94-119.88
Canon C500 Settings								
[4K 4K/2K] ▶ System Priority	4K	4K	4K	4K	4K	4K	4K	4K
[4K 4K/2K] ▶ System Frequency	50.00	59.94	24.00	50.00	59.94	24.00	50.00	59.94
[4K 4K/2K] ▶ [4K (4096/3840)] ▶ Mode	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	HRAW/3840x1080	HRAW/3840x1080
[4K 4K/2K] ▶ [4K (4096/3840)] ▶ Frame Rate	25.00**	23.98**	24.00**	50.00**	59.94**	24.00**	50.00**	59.94**
[4K 4K/2K] ▶ Special Rec	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion	Slow & Fast Motion
[4K 4K/2K] ▶ S&F Frame Rate	1-25.00	1-30.00 (/1.001)	1-30.00	[26.00]-[50.00]	[32.00]-[60.00] (/1.001)	[32.00]-[60.00]	[52.00]-[100.00]	[62.00]-[120.00] (/1.001)
Single Link or Dual Link signal (cable setup)	Single Link	Single Link	Single Link	Dual Link*	Dual Link*	Dual Link*	Dual Link*	Dual Link*
Codex Onboard S Settings								
[Setup] ▶ [Video] ▶ Format	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x2160	Canon-3840x1080	Canon-3840x1080
[Setup] ▶ [Video] ▶ Fps	25.00	29.97	30.00	50.00	59.94	60.00	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer	10-bit Bayer
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	SQ	SQ	SQ	SQ	SQ
[Setup] ▶ [Video] ▶ Channels	1	1	1	1	1	1	1	1
[Setup] ▶ [Video] ▶ Variframe	On	On	On	On	On	On	On	On
[Setup] ▶ [Timecode] ▶ Tc Source	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC	HD VANC
[Setup] ▶ [Timecode] ▶ Fix Tc Breaks	No	No	No	No	No	No	No	No
[Setup] ▶ [Timecode] ▶ Metadata	Canon	Canon	Canon	Canon	Canon	Canon	Canon	Canon

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