



TECHNICAL BULLETIN

2K | HD QUICK SETTINGS GUIDE

ONBOARD S RECORDER AND CANON C500

REVISION 24.05.2013

Canon



2K 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	2K	2K	2K	2K	2K	2K	2K	2K
[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)] ▶ Mode	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10-bit	RGB 444 10-bit	YCC 10-bit	YCC 10-bit
[4K/2K] ▶ [4K (4096/3840)] ▶ Resolution	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080
[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	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p
[Setup] ▶ [Video] ▶ Fps	23.98	24	25	29.97	50.00	59.94	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10/12-bit 4:4:4	10/12-bit 4:4:4	10/12-bit 4:4:4	10/12-bit 4:4:4	10-bit 4:4:4	10-bit 4:4:4	10-bit 4:2:2	10-bit 4:2:2
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	1:1	3:1	3:1	3:1
[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	2K	2K	2K	2K	2K	2K	2K	2K
[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	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10-bit	RGB 444 10-bit	RGB 444 10-bit	YCC 10-bit	YCC 10-bit
[4K/2K] ▶ [4K (4096/3840)] > Resolution	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080	2048x1080
[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	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p	2048x1080p
[Setup] ▶ [Video] ▶ Fps	25.00	29.97	30.00	50.00	59.94	60.00	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10/12-bit 4:4:4	10/12-bit 4:4:4	10/12-bit 4:4:4	10-bit 4:4:4	10-bit 4:4:4	10-bit 4:4:4	10-bit 4:2:2	10-bit 4:2:2
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	3:1	3:1	3:1	3:1
[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.

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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	2K	2K	2K	2K	2K	2K	2K	2K
[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)] ▶ Mode	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10-bit	RGB 444 10-bit	YCC 10-bit	YCC 10-bit
[4K/2K] ▶ [4K (4096/3840)] ▶ Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
[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	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p
[Setup] ▶ [Video] ▶ Fps	23.98	24	25	29.97	50.00	59.94	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10/12-bit 4:4:4	10/12-bit 4:4:4	10/12-bit 4:4:4	10/12-bit 4:4:4	10-bit 4:4:4	10-bit 4:4:4	10-bit 4:2:2	10-bit 4:2:2
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	1:1	3:1	3:1	3:1
[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	2K	2K	2K	2K	2K	2K	2K	2K
[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	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10/12-bit	RGB 444 10-bit	RGB 444 10-bit	RGB 444 10-bit	YCC 10-bit	YCC 10-bit
[4K/2K] ▶ [4K (4096/3840)] > Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
[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	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p	1920x1080p
[Setup] ▶ [Video] ▶ Fps	25.00	29.97	30.00	50.00	59.94	60.00	100.00	119.88
[Setup] ▶ [Video] ▶ Storage	10/12-bit 4:4:4	10/12-bit 4:4:4	10/12-bit 4:4:4	10-bit 4:4:4	10-bit 4:4:4	10-bit 4:4:4	10-bit 4:2:2	10-bit 4:2:2
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	3:1	3:1	3:1	3:1
[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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