



## TECHNICAL BULLETIN

2K | HD QUICK SETTINGS GUIDE

ONBOARD S RECORDER AND CANON C500

REVISION 08.07.2013

**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
<b>Canon C500 settings</b>								
[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*
<b>Codex Onboard S Settings</b>								
[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	None	None	None	None	None	None	None	None

## 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
<b>Canon C500 Settings</b>								
[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*
<b>Codex Onboard S Settings</b>								
[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	None	None	None	None	None	None	None	None

\* 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.

# HD 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
<b>Canon C500 settings</b>								
[ 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*

<b>Codex Onboard S Settings</b>								
[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	None	None	None	None	None	None	None	None

## 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
<b>Canon C500 Settings</b>								
[ 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*

<b>Codex Onboard S Settings</b>								
[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	None	None	None	None	None	None	None	None

\* 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.