

Power

Connect 10.5-34V power input.

14-24V is recommended.

Power Up:

Press the power button on top to start the recorder.

Approximate power draw is 20W when monitoring and 30W when recording.

Shutdown:

It is important to shutdown correctly.

To shutdown press the power button on top, and then the 'Shutdown' button on the side Control Panel. Shutdown is complete when the lights on the Control Panel switch off.

Menu Chart

Monitor

Options – set Tc Rate

Filecard – edit Metadata for shots

Next Scene – increment Scene number

Review – gate check for last Take

Play

Options – set Tc/Play Rate

Shots – choose another shot to play

Setup

Video – change video settings for recording

Source – change camera ID letter

Audio – change audio input settings

Timecode – set timecode input

GPI – set up record trigger

Slate – set up how shots are named

Project – enter general project info

System – general system settings

Storage

Create – to create a Roll for recording

Delete – to delete a Roll

Contact

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Resources

www.codexdigital.com/support/recorders

For general further documentation:

www.codexdigital.com/support

Unloading Media

To unload a Capture Drive lift the drive port cover. The Capture Drive will be ejected and the LED will become solid blue, meaning it is safe to pull the Capture Drive out of the drive port.

To load a Capture Drive lift the drive port cover at the front of the Onboard S. Slide the Capture Drive into the port (with cooling ridges facing upwards) and push so that the connector is fully mated. Close the drive port cover to complete the loading process. The LED on the Capture Drive will flash blue whilst it loads, and turn off when it finishes loading.




Loading Media

Creating a Roll

You must create a Roll before recording.

Press the  button and then the

 Storage button.

The disks should be shown as <Free>. (If they are <Good> there is already a Roll created.)

The RAID type is shown. This is normally RAID-0.

Press  **Create** and enter a number for

the Roll.

Then press  **Create** again to finish creating

the Roll.

Now press  and then  **Monitor** if you

want to begin recording.

Recording

You must be in Monitor mode, with the LED ring Orange, to start a recording.



Record Times

On a Capture Drive:

Canon 4096x2160 @ 24fps = 27 minutes

Canon 4096x2160 @ 25fps = 26 minutes

Canon 4096x2160 @ 30fps = 22 minutes

Canon 4096x2160 @ 50fps = 52 minutes

Canon 4096x2160 @ 60fps = 44 minutes

Canon 4096x1080 @ 100fps = 52 minutes

Canon 4096x1080 @ 120fps = 44 minutes

Warnings and Errors

Warning and error messages are displayed below the timecode display. Do not ignore these!

No video input signal detected – check video cables are connected and in good condition. If necessary replace cables.

No video input signal B detected – same as above, but for signal into input 2.

Video CRC error – the incoming video signal has errors. Depending on how severe this is, it may not prevent recording. Change cables.

Video frame dropped – recording stopped during a take. Most commonly due to cable problems. Change cables.

Input video signal wrong type – the input video signal from the camera does not match the settings on the recorder. Confirm correct settings on the camera

and recorder.

Timecode break – the recording has a duplicate or skipped timecode. This should not happen if the timecode is from the camera. In this case check settings are correct.

Invalid format for Datapack – the format settings require more disk bandwidth than is available. Check format settings, and Roll.

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?									
Canon C500 settings									
[⌘ 4K/2K] ▶ System Priority	4K	4K	4K	4K	4K	4K	4K	4K	4K
[⌘ 4K/2K] ▶ System Frequency	59.94		59.94	59.94	59.94	59.94	59.94	50.00	59.94
[⌘ 4K/2K] ▶ [4K (4096/3840)] ▶ Resolution	RAW/4096x2160	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	29.97	50.00	59.94	50.00	59.94
[⌘ 4K/2K] ▶ Special Rec	Off	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	N/A	[100]	[120]
Single Link or Dual Link signal (cable setup)	Single Link	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-4096x2160	Canon-4096x1080	Canon-4096x1080
[Setup] ▶ [Video] ▶ Fps	23.98	24.00	25.00	29.97	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	10-bit Bayer
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	1:1	SQ	SQ	SQ	SQ
[Setup] ▶ [Video] ▶ Channels	1	1	1	1	1	1	1	1	1
[Setup] ▶ [Video] ▶ Variframe	Off	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	HD VANC
[Setup] ▶ [Timecode] ▶ Fix Tc Breaks	No	No	No	No	No	No	No	No	No
[Setup] ▶ [Timecode] ▶ Metadata	Canon	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
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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)	[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.