

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.



Loading Media

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.

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



Then press Create again to finish creating



Now press Monitor if you



want to begin recording.

Recording

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

Start Recording



Stop Recording

Record Times

On a Capture Drive:

- ARRIRAW 2880x1620 @ 24fps = 47 minutes
- ARRIRAW 2880x1620 @ 25fps = 45 minutes
- ARRIRAW 2880x1620 @ 30fps = 37 minutes
- ARRIRAW 2880x1620 @ 48fps = 23 minutes
- ARRIRAW 2880x1620 @ 50fps = 22 minutes
- ARRIRAW 2880x1620 @ 60fps = 18 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.

16:9 ARRIRAW Quick Settings Guide – Codex Onboard S Recorder and ARRI Alexa

Standard Frame Rates

What frame rate are you shooting?	23.98	24.00	25.00	29.97	30.00	48.00	50.00	59.94	60.00
ARRI Alexa settings									
MENU▶RECORDING▶REC OUT▶▶HD-SDI format	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 DL	ARRIRAW 36 DL	ARRIRAW 36 DL	ARRIRAW 36 DL
MENU▶RECORDING▶REC OUT▶▶Frame rate	23.98	24.00	25.00	29.97	30.00	48.00	50.00	59.94	60.00
MENU▶RECORDING▶REC OUT▶▶REC OUT fps sets sensor fps	On	On	On	On	On	On	On	On	On
MENU▶RECORDING▶REC OUT▶▶SDI remote	On	On	On	On	On	On	On	On	On
MENU▶RECORDING▶REC OUT▶▶Variflag	On	On	On	On	On	On	On	On	On
TIMECODE▶OPTIONS	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC
TIMECODE▶MODE	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run
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	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p
[Setup] ▶ [Video] ▶ Fps	23.98	24.00	25.00	29.97	30.00	48.00	50.00	59.94	60.00
[Setup] ▶ [Video] ▶ Storage	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1
[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	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI
[Setup] ▶ [GPI] ▶ Record Trigger	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI

Non-standard Frame Rates

Note: it is recommended to use the settings in the rightmost column below (0.75-60.00). With these settings you can record all sensor rates the Alexa is capable of in 16:9 ARRIRAW mode.

What frame rate are you shooting?	0.75-23.98	0.75-24.00	0.75-25.00	0.75-29.97	0.75-30.00	0.75-48.00	0.75-50.00	0.75-59.94	0.75-60.00
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ARRI Alexa Settings

MENU▶RECORDING▶REC OUT▶▶HD-SDI format	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 DL	ARRIRAW 36 DL	ARRIRAW 36 DL	ARRIRAW 36 DL
MENU▶RECORDING▶REC OUT▶▶Frame rate	23.98	24.00	25.00	29.97	30.00	48.00	50.00	59.94	60.00
MENU▶RECORDING▶REC OUT▶▶REC OUT fps sets sensor fps	Off	Off	Off	Off	Off	Off	Off	Off	Off
MENU▶RECORDING▶REC OUT▶▶SDI remote	On	On	On	On	On	On	On	On	On
MENU▶RECORDING▶REC OUT▶▶Variflag	On	On	On	On	On	On	On	On	On
HOME▶FPS	< Your Choice >	< Your Choice >	< Your Choice >	< Your Choice >	< Your Choice >	< Your Choice >	< Your Choice >	< Your Choice >	< Your Choice >
TIMECODE▶OPTIONS	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC	Int TC or Ext LTC
TIMECODE▶MODE	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run	Free Run
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	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p	ARRI-2880x1620p
[Setup] ▶ [Video] ▶ Fps	23.98	24.00	25.00	29.97	30.00	48.00	50.00	59.94	60.00
[Setup] ▶ [Video] ▶ Storage	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer	12-bit Bayer
[Setup] ▶ [Video] ▶ Quality	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1
[Setup] ▶ [Video] ▶ Channels	1	1	1	1	1	1	1	1	1
[Setup] ▶ [Video] ▶ Variframe	On	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	HD VANC
[Setup] ▶ [Timecode] ▶ Fix Tc Breaks	No	No	No	No	No	No	No	No	No
[Setup] ▶ [Timecode] ▶ Metadata	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI	ARRI
[Setup] ▶ [GPI] ▶ Record Trigger	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI

Note: when triggering recording from the Alexa REC button make sure the hold switch on the Control Panel of the Onboard S is activated, so a padlock symbol is shown on the screen. If this is not done the Stop button on the Onboard S is still active.