

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

Email Support: support@codexdigital.com

UK Tel: +44 207 292 6918

US Tel: +1 323 969 9980

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

want to begin recording.

Now press and then **Monitor** if you

the Roll.

Then press **Create** again to finish creating

the Roll.

Press **Create** and enter a number for

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

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

Storage button.

Press the button and then the

You must create a Roll before recording.

Creating a Roll

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



Start Recording

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

Recording

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 camera and recorder.

Timecode break – the recording has a duplicate or skipped timecode. This should 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.

Warnings and Errors

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

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 DL	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	0n	0n	0n	0n	0n	0n	0n	0n	0n
MENU▶RECORDING▶REC OUT▶SDI remote	0n	0n	0n	0n	0n	0n	0n	0n	0n
MENU▶RECORDING▶REC OUT▶Variflag	0n	0n	0n	0n	0n	0n	0n	0n	0n
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
-----------------------------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

ARRI Alexa Settings

MENU▶RECORDING▶REC OUT▶HD-SDI format	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 SL	ARRIRAW 36 DL	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	0n	0n	0n	0n	0n	0n	0n	0n	0n
MENU▶RECORDING▶REC OUT▶Variflag	0n	0n	0n	0n	0n	0n	0n	0n	0n
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	0n	0n	0n	0n	0n	0n	0n	0n	0n
[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.