



## Setup Guide Odyssey7Q + ALEXA

Updated 18-Aug-2014 | Firmware Release v2.11.110

ARRIRAW (16:9 or 4:3) 23.98/24/25/30/48/59.98/60





# Odyssey7Q + ALEXA At a Glance

	Format	Frame Size	Frame Rate (fps)	Data Sampling	Bit Depth	Single or Dual Link	SSD Data-Rate (MB/Sec)	File Format (on SSD)	Record Time (Minutes) ***	No. of SSD's Required *	SSD Data Packed **	SSD Transfer Time in Seconds for 60 Seconds of Recording ****	
												USB 3.0	Thunderbolt
HD 10-Bit	HD - 1080p	1920x1080	23.98/24	RGB 444	10-Bit	1.5G DL or 3G SL	200	dpx	83	1	No	60	34
	HD - 1080p	1920x1080	25	RGB 444	10-Bit	1.5G DL or 3G SL	208	dpx	80	1	No	62	36
	HD - 1080p	1920x1080	29.97/30	RGB 444	10-Bit	1.5G DL or 3G SL	233	dpx	72	2	Yes	70	40
	HD - 1080p	1920x1080	48	RGB 444	10-Bit	1.5G DL or 3G SL	233	dpx	72	2	No	70	40
	HD - 1080p	1920x1080	50	RGB 444	10-Bit	1.5G DL or 3G SL	388	dpx	43	2	No	116	67
	HD - 1080p	1920x1080	59.94/60	RGB 444	10-Bit	1.5G DL or 3G SL	466	dpx	36	2	Yes	140	80
Apple ProRes	HD - 1080p	1920x1080	23.98/60	YCC422	10-Bit	1.5G SL	XXX	mov	310	1	No	XXX	XXX
ARRIRAW 16:9	ARRIRAW	2880x1620	23.98/24	Raw	12-Bit	1.5G DL or 3G SL	170	ari	98	1	No	51	29
	ARRIRAW	2880x1620	25	Raw	12-Bit	1.5G DL or 3G SL	177	ari	94	1	No	53	30
	ARRIRAW	2880x1620	29.97/30	Raw	12-Bit	1.5G DL or 3G SL	212	ari	79	1	No	64	36
	ARRIRAW	2880x1620	48	Raw	12-Bit	3G DL	338	ari	49	2	No	101	58
	ARRIRAW	2880x1620	50	Raw	12-Bit	3G DL	352	ari	47	2	No	106	60
	ARRIRAW	2880x1620	59.94/60	Raw	12-Bit	3G DL	422	ari	39	2	No	127	72

- \* If 2 or More SSD cards are required, use the CD Clip Merge Utility.
- \*\* If 'YES', use CD Data Unpacker Utility for Off-load.
- \*\*\* Record times assume all slots filled with 512 GB SSD's. IE, max recording time.
- \*\*\*\* Assumes USB 3.0 transfer rate = 200MB/sec; Thunderbolt = 350MB/sec.



For the latest firmware, product manuals and other information visit [Convergent-Design.com](http://Convergent-Design.com)

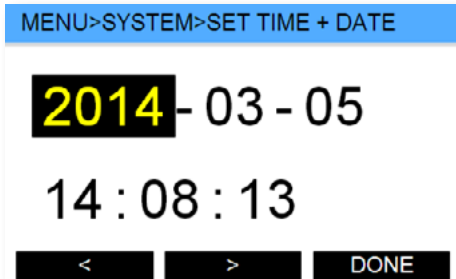


QUESTIONS or FEEDBACK? We're always available to help! [CDSupport@Convergent-Design.com](mailto:CDSupport@Convergent-Design.com)



## 1 Set Time & Date

MENU » System » Set Time + Date

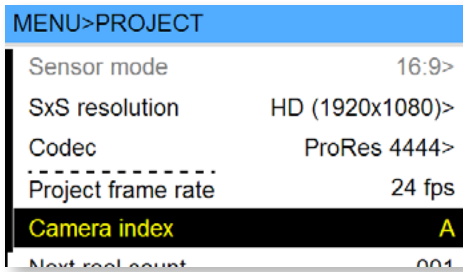


Set Time & Date so both the ALEXA and Odyssey7Q match.

*This is REQUIRED for using internal media as proxy.*

## 2 Set Meta Data

MENU » Project » Camera Index » A  
(BACK) » NEXT REEL COUNT » 001  
(BACK) » PROJECT INFO » 001



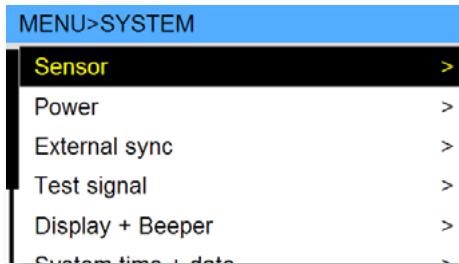
Set all necessary metadata for post production.

*Note: All metadata set in the camera is fed to the Odyssey7Q and is accessible via ARRIRAW files, as well as the clip.xml file each time there is a recording.*



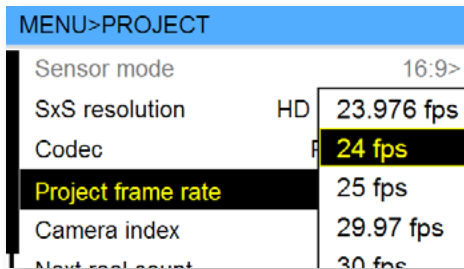
## 1 Set System Sensor

MENU » System » Sensor » 16:9



## 2 Set Project Frame Rate

MENU » Project » Project Frame Rate » 23.98 [23.976-30p]\*

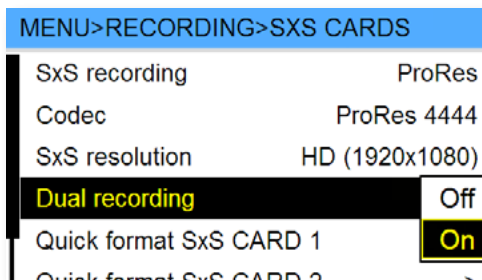


\*Note that the Project rate will be the rate at which the NLE will import footage.

\*\*Note that when using Variflag, the Project rate plays a large roll into the speed of playback of the footage (Slow/Fast motion)

## 3 Setup Dual Record (*internal + Odyssey7Q*)

MENU » Recording » SxS Cards » Dual Recording » On



( Continued on Next Page » )



QUESTIONS or FEEDBACK? We're always available to help! [CDSupport@Convergent-Design.com](mailto:CDSupport@Convergent-Design.com)



# Odyssey7Q + ALEXA ARRIRAW 16:9

## 4 Set the Source

MENU » Recording » Rec Out » HD-SDI Format » (RAW 3G/RAW1.5G/3G DL)

MENU>RECORDING>REC OUT	
Frame rate	444 1.5G DL
<b>HD-SDI format</b>	444 3G SL
Scan format	444 3G DL
Output range	RAW 1.5G DL
REC OUT fps sets s	RAW 3G SL
	<b>RAW 3G DL</b>

**ARRIRAW 3G** - If recording with a single 3G HD-SDI rated cable connected to the Odyssey7Q (16:9, 23.976 - 30p)

**ARRIRAW 1.5G** - If recording with two 1.5G HD-SDI rated cables connected to the Odyssey7Q (16:9, 23.976 - 30p)

**ARRIRAW 3G DL** - If recording with two 3G HD-SDI rated cable connected to the Odyssey7Q (4:3, 23.976 - 48p)  
(16:9, 48-60p)

## 5 Set the Output

MENU » Recording » Rec Out » Frame Rate » 23.976 [23.976-60p]

MENU>RECORDING>REC OUT	
<b>Frame rate</b>	<b>23.976 fps</b>
HD-SDI format	24 fps
Scan format	25 fps
Output range	29.97 fps
REC OUT fps sets sensor	30 fps
	48 fps

\*Note that the Project rate will be the rate at which the NLE will import footage.

\*\*Note that when using Variflag, the Project rate plays a large roll into the speed of playback of the footage (Slow/Fast motion)

NOTE: If MENU » Recording » Rec Out » REC OUT fps sets sensor fps is set to ON you may skip step 6

## 6 Set the Sensor FPS

HOME » FPS (Button) » Select 23.976 fps



## 7 Verify Camera Settings

INFO » FPS INFO (Button) » (Confirm your settings)

( Next Step: Set up OdysseyQ7 for ARRIRAW)



# Odyssey7Q + ALEXA Configure Recorder

## 1 Set Odyssey7Q to ARRIRAW Mode

MENU » SETUP » MONITOR --> RECORD » ARRIRAW

ODYSSEY SETUP RECORD INPUTS OUTPUTS  
 MONITOR --> RECORD

- 4:2:2 -> PRORES HD (.MOV)
- C500 RAW -> RAW (.DNG)
- CANON RAW -> RAW (.RMF)
- ARRIRAW -> RAW (.ARI)
- 4:2:2/4:4:4 -> 4:4:4 (.DPX)
- C500 4K RAW -> PRORES HD (.MOV)

Odyssey7Q will show a prompt to read ARRIRAW into memory. Click OK and the unit will reboot.

## 2 Set Date & Time to match ALEXA

MENU » ODYSSEY » SET » TIME

ODYSSEY SETUP RECORD INPUTS OUTPUTS  
 SET ACTIVATION  
 SSD'S TIME 07:30:11 OK X  
 ABOUT DATE  
 MFG RESET

Click on the month, year, etc. to highlight the field, then use the + and - buttons on screen to change the values of the field. Click OK when you are done.

MENU » ODYSSEY » SET » DATE

ODYSSEY SETUP RECORD INPUTS  
 SET ACTIVATION  
 SSD'S TIME  
 ABOUT DATE 2014 MAR 19  
 MFG RESET

( Continued on Next Page » )



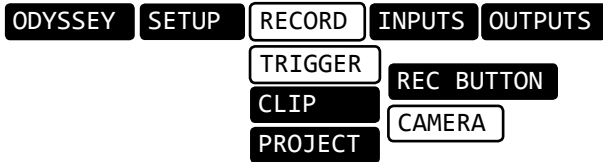
QUESTIONS or FEEDBACK? We're always available to help! [CDSupport@Convergent-Design.com](mailto:CDSupport@Convergent-Design.com)



# Odyssey7Q + ALEXA Configure Recorder

## 3 Make ALEXA the Record Trigger

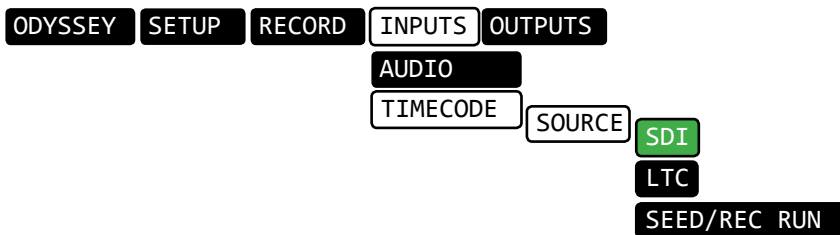
MENU » RECORD » TRIGGER » CAMERA



Clip name comes from the camera.

## 4 Set Timecode Source

MENU » INPUTS » TIMECODE » SOURCE » SDI



## 5 Connect Odyssey7Q to ALEXA

Connect ALEXA 3G-SDI outputs to Odyssey7Q SDIA inputs.

*For ARRIRAW 16:9 48-60 two 3G-SDI cables are required.*

( Next Step: SSD RAID Configuration )



**Convergent Design, Inc.**

4525 Northpark Dr. | Colorado Springs, CO 80918 | USA

TEL: ++ (720) 221-3861 | FAX: ++ (720) 227-9296 | Office Hours: 8:00 A.M. to 5:30 P.M., Monday - Friday [Mountain Time (GMT - 6)]

EMAIL: CDSupport@Convergent-Design.com | WEBSITE: www.Convergent-Design.com



## Recording Across Two SSDs

SSD1	SSD2
1, 3, 5, 7...	0, 2, 4, 6...

16:9 2K ABOVE 30P = RAID (TWO DRIVES)

*Note: You can use any Convergent Design media; they need not be matching (ie, one 256GB card and one 512GB card).*

( Next Step: Off-loading Data )



## Notes



QUESTIONS or FEEDBACK? We're always available to help! [CDSupport@Convergent-Design.com](mailto:CDSupport@Convergent-Design.com)



# Odyssey7Q + ALEXA Off-Loading Data

## 1 Connect SSD Drive to Adapter

Connect the Convergent Design 2.5" Premium SSD Media to any off-the-shelf 2.5" adaptor (example: Seagate GoFlex Thunderbolt Adaptor or USB 3.0 Adaptor)

## 2 Connect Adapter to Computer

The SSD will mount within 10-20 Seconds. (You will see this mount on the desktop or within finder on MAC, or within My Computer on Windows machines).

## 3 Copy Files for Playback/Editing

All Clips or Takes are located within the "Clips" directory, navigate to this and copy all of your files to a local or external drive or RAID for playback and/or editing.

## i Free Software Utilities

### CD Clip Merger *(Free Download from Website)*

Use the Clip Merger for any Raided Record (ie if your recorded clip required more than one SSD). See the *At A Glance Chart*, "No. of SSD's Req" column, on page 2.

### CD Data Unpacker *(Free Download from Website)*

Use CD Data Unpacker to convert "packed" files to "unpacked" data.

**DOWNLOAD HERE:** <http://convergent-design.com/support/firmware-downloads.html>

## ! ATTENTION MAC OSX USERS

Before installing Convergent Design Software on Mac OSX You must first change the following settings.

- 1) Navigate to **Applications » Utilities » System Preferences**
- 2) Select **Security and privacy**
- 3) Under **General** » Allow applications downloaded from: Select **Anywhere.**
- 4) Now you will be able to run the installer for installing any Convergent Design Applications.



QUESTIONS or FEEDBACK? We're always available to help! [Support@Convergent-](mailto:Support@Convergent-)



### Convergent Design, Inc.

4525 Northpark Dr. | Colorado Springs, CO 80918 | USA  
TEL: ++ (720) 221-3861 | FAX: ++ (720) 227-9296 | Office Hours: 8:00 A.M. to 5:30 P.M., Monday - Friday [Mountain Time (GMT - 6)]  
EMAIL: [CDsupport@Convergent-Design.com](mailto:CDsupport@Convergent-Design.com) | WEBSITE: [www.Convergent-Design.com](http://www.Convergent-Design.com)

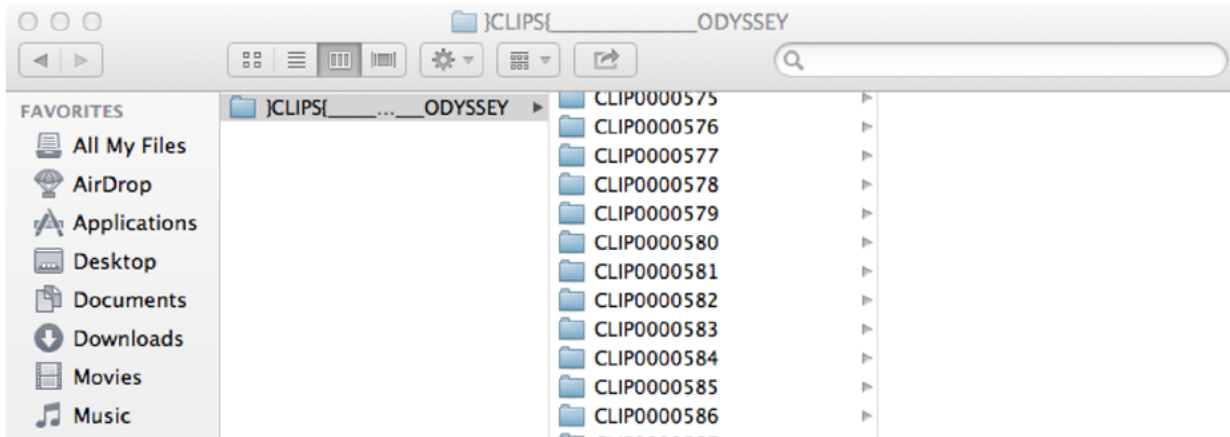


# ARRIRAW File Support

## WORKING WITH FILES RECORDED BY THE ODYSSEY7Q

There are numerous post systems and NLEs that can read natively the various file formats recorded by the Odyssey7Q. Some NLEs may require plug-ins in order to read certain file formats. Blackmagic Design Resolve software is available for free and can read all formats recorded by the Odyssey7Q.

## FILE STRUCTURE



## ARRI ALEXA ARRIRAW SUPPORT

All ARRI Alexa ARRIRAW recordings on the Odyssey7Q are recorded as 12 bit ARRIRAW file, also NOTE that with ari files Timecode, and Clip Metadata is stored in every frame, as well as in the XML file within each clip. All audio is recorded 48Hz 16 bit uncompressed wav audio.

### Native ARRIRAW Support

Adobe CS6 / Adobe CSCC 2014	Black Magic DaVinci Resolve	The Foundry Nuke
AutoDesk Smoke	Cineform Studio	ColorFront OnSet Dailies
Assimilate Scratch Lab	Eyeon Fusion	

For a more extensive list on ARRIRAW and workflow please visit:

[http://www.arri.com/camera/digital\\_cameras/workflow/working\\_with\\_arriraw/recording/arriraw\\_t\\_link/](http://www.arri.com/camera/digital_cameras/workflow/working_with_arriraw/recording/arriraw_t_link/)



QUESTIONS or FEEDBACK? We're always available to help! [CDSupport@Convergent-Design.com](mailto:CDSupport@Convergent-Design.com)



© 2014 Convergent Design, Inc. - All Rights Reserved.  
All copyrights and trademarks remain the property of their respective owners.

18-Aug-2014



**Convergent Design, Inc.**

4525 Northpark Dr. | Colorado Springs, CO 80918 | USA  
TEL: ++ (720) 221-3861 | FAX: ++ (720) 227-9296 | Office Hours: 8:00 A.M. to 5:30 P.M., Monday - Friday [Mountain Time (GMT - 6)]  
EMAIL: [CDSupport@Convergent-Design.com](mailto:CDSupport@Convergent-Design.com) | WEBSITE: [www.Convergent-Design.com](http://www.Convergent-Design.com)