



New Features

Advanced Playback Controls for All Formats

This is a complete revamp of the Playback system. Standard deck-style controls for Play/Pause, single-frame step forward or step-back, and skip forward or back to next/pervious clip. Additionally, an interactive scrub bar allows the user to quickly access any section of a clip simply by dragging a finger across the OLED touchscreen. All recordable formats are supported and more detailed information is noted in the Play List.

Playback Controls:
Clip Preview (First frame of clip)
Playback Scrubbing
Pause
Next Clip / Previous Clip
Fast Forward / Rewind

Expanded HD Format Support in Apple ProRes 422 (HQ)

In addition to 1080p video, the Odyssey7 and Odyssey7Q now support 1080i and 720p signals, as well as 24p signals embedded within 1080i video streams using “3:2 Pulldown”. Additionally, upon selecting 3:2 PULLDOWN, the Odyssey7 and Odyssey7Q will remove the excess material and record a pure 1080p23.98 video stream for more efficient storage and ease of post.

Added Formats:
1080i 59.94
1080i 50
1080i (23.98p over 59.94i) (3:2 Pulldown Support with removal)
720p 59.94
720p 50

Monitoring LUTs for HD Video

Monitoring LUTs for the LOG outputs from several popular cameras are now supported in HD video recording in both Apple ProRes 422(HQ) and Uncompressed DPX (Odyssey7Q only). All monitoring LUTs conform selected LOG signals to REC709. Monitoring LUTs are applied to the OLED screen, video outputs and Image Analysis tools, but not to the recorded files.

Supported LOG Formats:
ARRI Log-C
Canon C-Log
Sony F3 S-Log
Sony F5 / F55 S-Log2
Sony F5 / F55 S-Log3
Sony FS700 S-Log2



Waveform Opacity

Opacity is now selectable when using the Waveform. The background of the waveform can be either translucent as in previous firmware, or selected to be solid black so that the waveform display can be more clearly seen.

Image Analysis Tools Resets

Menu page resets are now available in the settings for False Color, Focus Assist and OLED menus.

Odyssey Utility Drive Functionality

Added support for firmware updates via the new Odyssey Utility Drive.

Timecode Triggering

Added record triggering via rolling of timecode when recording in Apple ProRes 422 (HQ) (1080 formats over SDI only).

Internal Timecode Generator

Activated internal timecode generator.

- Seed Record Run
- Seed Time of Day Timecode
- Seed Time of Day Timecode Drop Frame

LTC Timecode Support

Enabled LTC timecode input. Record triggering over LTC not supported

Incoming Video Format Menu Setting

For setting type of 1080 signal between 1080p/psf, 1080i and 1080 23.98 over 60i (3:2 Pulldown). Selecting 3:2 Pulldown sets recording to remove 3:2 pulldown cadence and record material as 1080p23.98. 3:2 Pulldown in 720p not supported.

[INPUTS] [VIDEO] [PROGRESSIVE / INTERLACE / 3:2 PULLDOWN TO 24P]



SMPTE Color Bars

On startup in Apple ProRes 422 (HQ) recording mode and in modes when input does not match selected recording mode.

Dual-Link RGB 4:4:4 Support for Sony F3 (Odyssey7Q ONLY)

Record RGB 4:4:4 from the Sony F3 via 1.5G Dual-Link SDI at 1080/23.98psf, 1080/25psf and 1080/29.97psf.

New Features, RECORD OPTIONS (ODYSSEY7Q ONLY)

Sony FS700 4K RAW 100p/120p Super SloMo

Record 100fps or 120fps in 4K RAW in a 440 frame burst using the camera's internal memory buffer. Triggering is set on the camera at either the start of the memory buffer (capture the 440 frames after trigger is pressed) or at the end of the buffer (capture the 440 frames that occurred before the trigger is pressed). Selecting End Half Trigger captures the 220 frames prior to the trigger being pressed. Note triggering must be from FS700 in this mode.

440 frames equals 3.7 seconds of real time at 120fps and 4.4 seconds at 100fps. 440 frame played back at 24fps lasts more than 18 seconds. Transfer output speed from camera to Odyssey7Q is at 60fps (120fps material) or 50fps (100fps material).

ARRIAW & Canon 4K RAW Record Option Rentals Now Available

- Rentals are based on a 24hr period. Rentals can be added in any 24hr increment to a maximum of 31 days for one rental.
- A rental commences the first time a record is performed in the rental codec. This starts the 24-hour clock.
- Note that once a 24hr rental period commences the Odyssey7Q's clock cannot be adjusted.
- After 24hrs the clock may be adjusted. When the next record is performed the next 24hr rental commences, locking out changes to the clock.
- Once a rental is input into a unit, there is no way of retrieving or transferring to another unit.



- Rentals are unit specific, and must be performed via our website.
- To activate a rental, enter the 8-character key into the Odyssey7Q's activation section in the menu.
- To check the status of a rental tap the Record Status box in the Upper Tool Bar.
- When the total rental period gets down to 2 days the rental info in the Record Status box will change to yellow.
- When the total rental period drops below 24hrs the remaining rental time will display in the form of minutes in the Record Status box and will flash for the final hour.
- When the total rental period drops below one minute and a recording is already in progress, that entire clip will be recorded without a watermark regardless of length up to a maximum of 80 mins. This will allow a final shot to be completed, after which the time remaining indicator will change to zero minutes in white text.
- Note that rentals can be performed on an Odyssey7Q for which a full purchased Record Option has been purchased and activated, but then deactivated by the owner. This allows owners to rent out an Odyssey7Q without a Record Option included and then charge separately for the rental of the Record Option.

Added Support for ARRIRAW 1.5 DL and 3G DL 23.98-60p

FIXES & IMPROVEMENTS

- FIXED Occasional file corruption when using PIXEL ZOOM while recording Apple ProRes 422(HQ)
- FIXED Occasional file corruption when recording a 1080psf signal
- FIXED Playback issues at end of a file
- FIXED Image scaling in psf and interlaced signals that showed jagged lines in PIXEL ZOOM.
- FIXED Black line in image from Canon 5Dmk3 in 1080p23.98
- IMPROVED Hide Menu/Video Functionality
- IMPROVED SSD detection
- IMPROVED PIXEL ZOOM movement & image refresh



- IMPROVED HDMI detection
- IMPROVED Firmware update ease by accepting file or folder

FIXES & IMPROVEMENTS, RECORD OPTIONS & OTHER (ODYSSEY7Q ONLY)

- FIXED Canon C500 QHD RAW (3840x2160) file corruption at 50p & 60p
- FIXED Project Rate Playback for DPX & RAW files (i.e., 50p/60p inputs at 24p Project Rates will playback in slow motion)
- IMPROVED Sony FS700 4K/2K RAW S-Log2 to REC709 LUT
- IMPROVED Sony FS700 4K2HD S-Log2 to REC709 LUT
- IMPROVED Sony FS700 4K2HD REC709 (800%) to REC709 LUT
- IMPROVED Sony FS700 4K2HD REC709 color science (internal LUT) FIXED Occasional file corruption when using PIXEL ZOOM while recording Apple ProRes 422(HQ)

KNOWN ISSUES

Audio

- Occasionally in DPX mode the audio will swap channels during recording
- Occasionally the SDI/HDMI output will not have audio. Cycle power on Odyssey to correct.
- Occasionally the SDI/HDMI output audio will have a static pop on startup.
- Occasionally when recording in Apple ProRes 422(HQ), the audio will record static for the last few frames. Add two seconds of pre- and post-roll to avoid.
- Occasionally headphones output will flip channels



Pixel Zoom

- Occasionally when recording a PSF or Interlaced signal in Apple ProRes 422 (HQ), engaging PIXEL ZOOM can result in a black image on the OLED panel and video outputs. The recorded signal is not affected and the issue is corrected by cycling through the PIXEL ZOOM settings.
- Occasionally in Playback, engaging PIXEL ZOOM can result in a horizontally stretched image on the OLED panel. The recorded signal is not affected and the issue is corrected by cycling to Record mode and then back to Playback.
- In Playback with 1080i60 material, PIXEL ZOOM is not supported and will blank the screen.

Playback

- In Playback with 1080i60 material, PIXEL ZOOM is not supported and will blank the screen.
- In Playback, audio sync may slip up to four frames after scrubbing through a clip. This does not affect the recorded file.
- In Playback, very fast scrubbing can result in shifted colors. Normal colors return when scrubbing completed.

Frame Rate

- Occasionally when changing frame rates the Odyssey does not detect the source change. To remedy this disconnect and reconnect the source, or cycle power on the Odyssey.

KNOWN ISSUES, RECORD OPTIONS & OTHER (ODYSSEY7Q ONLY)

Playback

- Occasionally in Playback, when scrubbing through RAW or DPX files the image will become pixelated, but will correct itself after scrubbing.
- In Playback, when scrubbing RAW files there is no audio.



- Occasionally in Playback, when selecting 2K and then 4K RAW clips the preview will become blue & yellow or pixelated. To correct select a different clip, then reselect the original clip.
- Occasionally in Playback, when viewing FS700 2K RAW files playback will show bad colors on initial clip selection. To resolve de-select then re-select the clip.

Other

- Occasionally in ARRIRAW when switching between 1.5 DL and 3G DL the image will be incorrect. To correct, disconnect and reconnect one of the SDI inputs.
- 2K 12-bit/10-bit RGB 4:4:4 from the C500 has pink line on the SDI and HDMI output but not in the recorded image.
- In FS700 RAW, there is a vertical line on the right side of the OLED and video output in some images. This is an artifact of the debayer and not in the recorded image.
- Occasionally when recording in DPX or RAW, engaging PIXEL ZOOM can result in a horizontally stretched image on the OLED panel. The recorded signal is not affected and the issue is corrected by cycling through the PIXEL ZOOM settings.
- Occasionally in ARRIRAW after switching from 1.5 DL to 3G DL a Camera Trigger issue can cause the unit to record 2-4 6-frame clips, then work correctly.

OTHER NOTES

Not Supported At This Time

- 720p 24/25/30 signal (720p with 3:2 or 2:2 Pulldown)
- SD NTSC/PAL video
- 1080p 50/59.94 recording in Apple ProRes 422 (HQ)
- Analog audio input
- File name matching from the camera in video recording



- LTC Timecode Trigger
- HDMI Timecode in
- HDMI Record Trigger

Other

To playback Apple ProRes 422(HQ) files in QuickTime Player X, the files must be first run through our Apple ProRes 422(HQ) Utility to be optimized for the recently released Apple ProRes 422(HQ) Codec update. If files are not optimized, then they will play the first second of audio only. This is not an issue when playing in FCPX.

Other (Odyssey7Q ONLY)

Other

- FS700 LUTs have been adjusted to better mimic the camera when recording in RAW or 4K2HD.
- Adobe Premier FS700 Raw (CinemaDNG file support) is pending next update from Adobe to correct issue with highlights turning to pink.
- Adobe Speed Grade FS700 Raw (CinemaDNG file support) is pending next update from Adobe to correct imported frames showing as green. Also note that if files are first imported via Premium, this circumvents issue.
- In Resolve 11 Lite, FS700 RAW (CinemaDNG file support) underexposed images may appear green when using “Auto-Color”. We are in contact with BlackMagic Design about this issue.

Not Supported At This Time

- HDMI source in Multi-Stream Monitoring
- 720p 50/60 signal in Multi-Stream Monitoring
- Multi-Stream Recording
- User-Loadable and custom LUTs
- C500 120fps, 2K @ 50p, 59.94p