

Working with ARRIRAW

■ ALEXA XT / XR Module ■ ARRIRAW T-Link

XR Module

All ALEXA XT models come with the new XR Module, a side panel that was co-developed with Codex and which replaces the previous SxS Module. The XR Module allows in-camera ARRIRAW recording up to 120 fps onto exceptionally fast and rugged XR Capture Drives. The XR Module not only provides for a smaller, lighter and more affordable camera package, it also simplifies setup and operation while avoiding unnecessary cabling. The result is an even faster and more reliable workflow on set. The XR Module is also available as an upgrade for all classic ALEXAs.

XR Capture Drives

The new XR Capture Drives by Codex are equipped with the latest in solid state drive technology, enabling the extreme data throughput of almost 850 MB per second, which is required for ARRIRAW recording at 120 fps. XR Capture Drives offer around 450 GB storage space for ARRIRAW recording. They are compatible with the Codex Capture Drives (used in the Codex Onboard S recorder) and the Codex Transfer Drives, so they can be accessed using the standard Codex docking stations. With the current ALEXA Firmware, the XR Module will only record to the XR Capture Drives.



Like SxS PRO cards, the same capture drive can be used to record different frame rates and/or compression codecs. Compressed ProRes/DNxHD and uncompressed ARRIRAW cannot be recorded on the same drive, however, as the formats need to be recorded using different file systems.

Format	fps Range	Resolution	Frame Size	Data Volume @24 fps	Record Time @ 24 fps	Recording Time @ max fps
16:9 ARRIRAW 2.8K	0.75 - 60	2880 x 1620	7 MB	562 GB/h	47 min	19 min
16:9 ARRIRAW 2.8K HS	60 - 120	2880 x 1620	7 MB	-	-	9 min
4:3 ARRIRAW 2.8K	0.75 - 90	2880 x 2160	9.3 MB	751 GB/h	35 min	9 min
ARRIRAW Open Gate	0.75 - 75	3414 x 2198	11.3 MB	976 GB/h	29 min	9 min

High Quality Monitoring

Recording ARRIRAW in the camera frees up the camera's REC OUT connectors so they can be used to deliver a clean monitoring image with full quality in-camera debayering. This, of course, also works when playing back recorded footage. Because the recorded footage is unprocessed ARRIRAW, it is even possible to switch between different Gamma settings for the MON OUT and REC OUT, to monitor the live image or the playback in Log C or Rec 709 video encoding, or with an ARRI Look file applied.