

# Data Rates

For in-camera recording with ALEXA Classic cameras  
with SUP 11 (ALEXA Classic)

Sensor Mode <sup>(1)</sup>	Recording File Type <sup>(2, 3, 4)</sup>	Recording Resolution	Recording File Setting	Output Resolution	Bit Depth	Target Data Rate @ 24 fps <sup>(5)</sup>	Data Volume @ 24 fps in GByte/h	Recording Time @ 24fps on 5x5 PRO 64GB
16:9	ProRes	HD	422	1920 x 1080	10	126 Mbit/s	56	65 min
			422 HQ	1920 x 1080	10	188 Mbit/s	85	43 min
			4444	1920 x 1080	12	283 Mbit/s	127	29 min
		2K	422	2048 x 1152	10	143 Mbit/s	64	57 min
			422 HQ	2048 x 1152	10	214 Mbit/s	97	38 min
			4444	2048 x 1152	12	322 Mbit/s	145	25 min
	DNxHD	HD	145	1920 x 1080	8	120 Mbit/s	54	72 min
			220x	1920 x 1080	10	190 Mbit/s	86	48 min
			444	1920 x 1080	10	405 Mbit/s	182	24 min
4:3	ProRes	2K	422	2048 x 1536	10	286 Mbit/s	86	42 min
			422 HQ	2048 x 1536	10	286 Mbit/s	129	28 min
			4444	2048 x 1536	12	429 Mbit/s	193	19 min

- (1) 4:3 sensor mode is only available in the following ALEXA Classic cameras: ALEXA Plus 4:3, ALEXA M and ALEXA Studio
- (2) ProRes is a variable bit rate codec. While it is usually close to the target data rate, the actual data rate can vary with image content.
- (3) The ALEXA ProRes target data rate is the Apple target data rate plus metadata and other overhead.
- (4) DNxHD requires the purchase of a DNxHD license for ALEXA, ALEXA Plus andf ALEXA M; a DNxHD license is included in ALEXA Plus 4:3 and ALEXA Studio.
- (5) The remaining time indicated by the camera is always calculated based on the theoretical maximum data rate, not the target data rate, to be on the safe side.

# Data Rates

For in-camera recording with ALEXA XT cameras  
with SUP 11 (ALEXA XR/XT) <sup>(1)</sup>

Sensor Mode	Recording File Type <sup>(2,3,4)</sup>	Recording Resolution	Recording File Setting	Output Resolution	Bit Depth	Target Data Rate @ 24 fps <sup>(5)</sup>	Data Volume @ 24 fps in GByte/h	Recording Time @ 24fps on XR Capture Drive	Recording Time @ 24fps on SxS PRO 64GB	Recording Time @ 24fps on CFast 2.0 128 GB
16:9	ProRes	HD	422	1920 x 1080	10	126 Mbit/s	56 GB/h	240 min	65 min	120 min
			422 HQ	1920 x 1080	10	188 Mbit/s	85 GB/h	160 min	43 min	80 min
			4444	1920 x 1080	12	283 Mbit/s	127 GB/h	107 min	29 min	53 min
			4444 XQ	1920 x 1080	12	424 Mbit/s	191 GB/h	71 min	19 min	35 min
		2K	422	2048 x 1152	10	143 Mbit/s	64 GB/h	210 min	57 min	105 min
			422 HQ	2048 x 1152	10	214 Mbit/s	97 GB/h	140 min	38 min	70 min
			4444	2048 x 1152	12	322 Mbit/s	145 GB/h	93 min	25 min	46 min
			4444 XQ	2048 x 1152	12	482 Mbit/s	217 GB/h	62 min	16 min	31 min
		3.2K	422	3164 x 1778	10	341 Mbit/s	153 GB/h	210 min	23 min	43 min
			422 HQ	3164 x 1778	10	511 Mbit/s	230 GB/h	56 min	15 min	28 min
			4444	3164 x 1778	12	767 Mbit/s	345 GB/h	37 min	10 min	19 min
			4444 XQ	3164 x 1778	12	1,15 Gbit/s	517 GB/h	25 min	-	12 min
	DNxHD	HD	145	1920 x 1080	8	120 Mbit/s	54 GB/h	264 min	72 min	132 min
			220x	1920 x 1080	10	190 Mbit/s	86 GB/h	175 min	48 min	87 min
			444	1920 x 1080	10	405 Mbit/s	182 GB/h	87 min	24 min	43 min
	ARRIRAW	2.8K		2880 x 1620	12	1,34 Gbit/s	605 GB/h	47 min	-	-
4:3	ProRes	2K	422	2048 x 1536	10	190 Mbit/s	86 GB/h	157 min	42 min	79 min
			422 HQ	2048 x 1536	10	286 Mbit/s	129 GB/h	105 min	28 min	52 min
			4444	2048 x 1536	12	429 Mbit/s	193 GB/h	70 min	19 min	35 min
			4444 XQ	2048 x 1536	12	643 Mbit/s	289 GB/h	46 min	12 min	23 min
	ARRIRAW	2.8K	Full	2880 x 2160	12	1,79 Gbit/s	806 GB/h	39 min	-	-
		2.6K	Cropped	2578 x 2160	12	1,60 Gbit/s	722 GB/h	35 min	-	-
Open Gate	ARRIRAW	3.4K		3414 x 2198	12	2,16 Gbit/s	973 GB/h	29 min	-	-

(1) ALEXA Classic cameras with the XR Module upgrade have the same maximum fps, except for Open Gate ARRIRAW, which is only available on ALEXA XT cameras.

(2) ProRes is a variable bit rate codec. While it is usually close to the target data rate, the actual data rate can vary with image content.

(3) The ALEXA ProRes target data rate is the Apple target data rate plus metadata and other overhead.

(4) DNxHD requires the purchase of a DNxHD license for ALEXA XT and XT M; a DNxHD license is included in ALEXA XT Plus and ALEXA XT Studio.

(5) The remaining time indicated by the camera is always calculated based on the theoretical maximum data rate, not the target data rate, to be on the safe side.