

ALEXASXT THE BEST JUST GOT BETTER

SXT Crib Sheet 2017 04-10

16:9

For TV series or commercials using spherical lenses. Max 120 fps.

6:5

For all projects using anamorphic lenses with a 2.39:1 CinemaScope deliverable. Allows fewer processing steps in post and higher frame rates for some formats than 4:3. Max 96 fps.

4:3

For projects using spherical lenses with a 16:9 or 1.85:1 deliverable requiring extra room above and below the image for VFX markers or repositioning. Max 96 fps.

Open Gate

For all projects wanting the maximum image area and pixel count from a Super 35 format ALEXA. Best for resizing, repositioning, rotating, stabilizing, tracking and 4K up-sampling in post. Max 90 fps.

 COLOR>MON COLOR SPACES

 MON OUT 1
 REC 709

 MON OUT 2
 REC 2020

 MON OUT 3
 REC 709

1. New recording formats

- 14 carefully fine-tuned recording options
- All sensor modes in ARRIRAW or ProRes
- 7 new recording formats

Sensor Mode	Recording File Type	Recording Resolution						
		HD						
	ProRes	2K						
16:9		3.2K						
		4K UHD						
	ARRIRAW	2.8K						
	ARRIRAW	3.2K						
		2K Anamorphic						
6:5	ProRes	4K Cine Anamorphic						
	ARRIRAW	2.6K						
4.3	ProRes	2.8K						
4:3	ARRIRAW	2.8K						
Open Gate	ProRes	3.4K						
	Proces	4K Cine						
	ARRIRAW	3.4K						

2. New ARRI Look Management

- Look management from prep to post
 - maintain and share the cinematographer's intended look on set, in dailies and in editing
 - wide range of unique looks possible
 - same look file and tools for ALEXA SXT,
 - new ARRI Look File (ALF-2) contains name of target color space, ASC CDL values and 3D LUT
- Look file is always stored in metadata for
 - live grading on set
 - automated dailies creation
 - editing with looks

3. Super flexible on-set monitoring

- High Dynamic Range (HDR) monitoring
- Four independent monitoring outputs
- Rec 709 or Rec 2020 output
- Better frame grabs

4. Improved image quality

- Optional mild ARRI Noise Reduction (ANR)
- Advanced defect pixel correction
- More range for baked-in looks with 3D LUTs

MENU>FRAME GRAB	S		MENU>FRAME GRABS	
File format	Jpeg	•	File format	Jρε
Frame grab path	MON OUT 1		Frame grab path MON	Tif
Compare grab 2 live in	MON OUT 2		Compare grab 2 live image	Dp
	MON OUT 3			
	ARRIRAW			
'				

Download HDR look files at www.arri.com/goto/hdr_faq

16:9 ProRes 4K UHD

Easiest and fastest path to the best 4K UHD image, with the immediacy and speed of ProRes. Exactly the same format as on ALEXA Mini and AMIRA.

6:5 ProRes 2K/4K Anamorphic

The most economical path to the best overall image quality with anamorphic lenses. Camera creates a ready-to-view ProRes file in the DCI delivery format, with no de-bayering, cropping, rescaling or de-squeezing needed in post.

Open Gate ProRes 3.4K
Maximum image area
and photo site count
from a Super 35 ALEXA
in combination with the
immediacy and speed of
ProRes. Same pixel count as
ARRIRAW Open Gate 3.4K.

16:9 ARRIRAW 3.2K

The largest number of pixels that can be processed at 120 fps. Use full 3.2K image area for most ARRI Super 35 PL lenses, or use 2.8K center for lenses with a smaller image circle (and gain padding).

4:3 ProRes 2.8K

This format provides extra height for VFX tracking markers or repositioning when shooting 16:9 or 1.85 projects. Lower data rate and smaller image circle than Open Gate. Same pixel count as 4:3 ARRIRAW 2.8K.

Open Gate ProRes 4K Cine

Unique to ALEXA SXT. Recorded file contains 4K cine standard width with extra height for VFX tracking markers or repositioning.



Download "ALEXA SXT - ARRI Look Management" white paper at www.arri.com/alexa/downloads

Example of how the four independent monitoring outputs might be used on set



look, frame lines, surround view and status info



Director: Rec 2020 monitor with custom look, frame lines and surround view



Assistant: Rec 709 on-board monitor with frame lines, surround view, status info and LDS info



DIT: Rec 709 monitor with Log C, clean





XR and SXR Capture Drives recorded in ALEXA SXT require Codex Production Suite 4.1 for downloading

Requires
ARRI RAID
driver on
Mac for
downloading
(included
in Codex
Production
Suite 4.1)

Scan the QR Code for downloading the ALEXA SXT Primer App



Not supported by ALEXA SXT

DNxHD, Fiber Remote Option, iOS SDK, SxS PRO 8, 16 and 32 GB cards, all SanDisk CFast 2.0 cards, LEXAR CFast 2.0 128 GB cards

Recording Format					Pixel Math			Max fps ((media duration in hr:m	in at max fps/at 24 fps	5)	
Sensor Mode	Recording File Type	Recording Resolution	Recording File Setting	Sensor Active Image Area (photo sites)	Recording File Container Size (pixel)	Recording File Image Content (pixel)	SXS Pro/Pro+ 64GB	SXS Pro/Pro+ 128GB	CFast 2.0 256GB	XR Capture Drive 512GB	1TB	SXR Capture Drive 2TB
			422				120 (00:13/01:05)	120 (00:25/02:03)	120 (00:52/04:18)	120 (00:48/04:02)	120 (01:37/08:04)	120 (03:14/16:09)
		HD	422 HQ	2880 x 1620	1920 x 1080	1920 x 1080	120 (00:09/00:43)	120 (00:16/01:22)	120 (00:34/02:52)	120 (00:32/02:42)	120 (01:05/05:23)	120 (02:09/10:46)
		no [4444	2000 X 1020	1320 X 1060	1320 X 1080	96 (00:07/00:29) [60]	96 (00:14/00:55) [60]	120 (00:23/01:55)	120 (00:22/01:48)	120 (00:43/03:35)	120 (01:26/07:11)
			4444 XQ				60 (00:08/00:19) [48]	60 (00:15/00:36) [48]	120 (00:15/01:17) [75]	120 (00:14/01:12) [75]	120 (00:29/02:24)	120 (00:57/04:47)
			422				120 (00:11/00:57) [60]	120 (00:22/01:48) [60]	120 (00:45/03:46) [60]	120 (00:42/03:32) [60]	120 (01:25/07:04)	120 (02:50/14:08)
		21/	422 HQ	2000 1620	2048 x 1152	2048 x 1152	120 (00:08/00:38) [60]	120 (00:14/01:12) [60]	120 (00:30/02:31) [60]	120 (00:28/02:21) [60]	120 (00:57/04:43)	120 (01:53/09:25)
		-	4444	2880 x 1620	2048 X 1152	2048 X 1152	80 (00:08/00:25) [60]	80 (00:14/00:48) [60]	120 (00:20/01:40) [60]	120 (00:19/01:34) [60]	120 (00:38/03:08)	120 (01:15/06:17)
	ProRes		4444 XQ				50 (00:08/00:17) [40]	50 (00:15/00:32) [40]	120 (00:13/01:07) [60]	120 (00:13/01:03) [60]	120 (00:25/02:06)	120 (00:50/04:11)
16:9	FIURES		422				72 (00:08/00:23) [30]	72 (00:15/00:44) [30]	72 (00:31/01:33) [30]	72 (00:29/01:27) [30]	72 (00:58/02:54)	72 (01:56/05:47)
10.5		3.2K	422 HQ	3200 x 1800	3200 x 1824	3200 x 1800	50 (00:07/00:16) [30]	50 (00:14/00:29) [30]	72 (00:21/01:02) [30]	72 (00:19/00:58) [30]	72 (00:39/01:56)	72 (01:17/03:52)
		3.2K	4444	3200 X 1600	3200 X 1624	3200 X 1800	30 (00:08/00:10)	30 (00:16/00:20)	72 (00:14/00:41) [30]	72 (00:13/00:39) [30]	72 (00:26/01:17)	72 (00:51/02:34)
			4444 XQ				-	-	50 (00:13/00:27) [30]	60 (00:10/00:26) [30]	72 (00:17/00:51)	72 (00:34/01:43)
			422		3840 x 2160		50 (00:08/00:16)	50 (00:15/00:31)	50 (00:31/01:04)	50 (00:29/01:00)	50 (00:58/02:01)	50 (01:56/04:01)
		4K UHD	422 HQ	3200 x 1800		3840 x 2160	30 (00:09/00:11)	30 (00:16/00:20)	50 (00:21/00:43)	50 (00:19/00:40)	50 (00:39/01:20)	50 (01:17/02:41)
		4K UHD	4444	3200 X 1600	3640 X 2160	3640 X 2160	-	-	50 (00:14/00:29)	50 (00:13/00:27)	50 (00:26/00:54)	50 (00:51/01:47)
			4444 XQ				-	-	30 (00:15/00:19)	40 (00:11/00:18)	50 (00:17/00:36)	50 (00:34/01:11)
	ARRIRAW	2.8K		2880 x 1620	2880 x 1620	2880 x 1620	-	-	-	120 (00:10/00:48)	120 (00:19/01:35)	120 (00:38/03:10)
	ARRIRAW	3.2K		3168 x 1782*	3168 x 1782	3168 x 1782	-	-	-	100 (00:09/00:39)	120 (00:16/01:19)	120 (00:31/02:37)
			422	2560 x 2146	2048 x 858	2048 x 858	96 (00:19/01:16)	96 (00:36/02:25)	96 (01:16/05:04)	96 (01:11/04:45)	96 (02:22/09:29)	96 (04:45/18:58)
		2K 422 H Anamorphic 4444	422 HQ				96 (00:13/00:51)	96 (00:24/01:36)	96 (00:50/03:22)	96 (00:47/03:09)	96 (01:35/06:18)	96 (03:09/12:37)
	ProRes -		4444				96 (00:08/00:34)	96 (00:16/01:04)	96 (00:34/02:15)	96 (00:32/02:06)	96 (01:03/04:13)	96 (02:06/08:25)
			4444 XQ				70 (00:08/00:23)	70 (00:15/00:43)	96 (00:22/01:30)	96 (00:21/01:24)	96 (00:42/02:48)	96 (01:24/05:37)
6:5		4K Cine Anamorphic	422	-	4096 x 1716	4096 x 1716	60 (00:08/00:19)	60 (00:14/00:36)	60 (00:30/01:16)	60 (00:28/01:11)	60 (00:57/02:22)	60 (01:54/04:45)
			422 HQ				40 (00:08/00:13)	40 (00:14/00:24)	60 (00:20/00:51)	60 (00:19/00:47)	60 (00:38/01:35)	60 (01:16/03:10)
			4444				25 (00:08/00:08)	25 (00:15/00:16)	60 (00:13/00:34)	60 (00:13/00:32)	60 (00:25/01:03)	60 (00:51/02:06)
			4444 XQ				-	-	40 (00:13/00:22)	50 (00:10/00:21)	60 (00:17/00:42)	60 (00:34/01:24)
	ARRIRAW	2.6K		2578 x 2160	2592 x 2160	2578 x 2160	-	-	-	96 (00:10/00:40)	96 (00:20/01:19)	96 (00:40/02:38)
4:3	ProRes	Res 2.8K	422			60 (00:09/00:22)	60 (00:16/00:41)	60 (00:34/01:26)	60 (00:32/01:20)	60 (01:04/02:41)	60 (02:09/05:22)	
			422 HQ	2880 x 2160	2944 x 2176		45 (00:08/00:14)	45 (00:15/00:27)	60 (00:23/00:57)	60 (00:21/00:54)	60 (00:43/01:47)	60 (01:26/03:34)
			4444				30 (00:08/00:10)	30 (00:15/00:18)	60 (00:15/00:38)	60 (00:14/00:36)	60 (00:29:/01:11)	60 (00:57/02:23)
			4444 XQ				-	=	50 (00:12/00:25)	60 (00:10/00:24)	60 (00:19/00:48)	60 (00:38/01:35)
	ARRIRAW	2.8K		2880 x 2160	2944 x 2176	2880 x 2160	-	-	-	90 (00:10/00:36)	96 (00:18/01:11)	96 (00:36/02:23)
Open Gate	ProRes —	3.4K	422	3424 x 2202 3456 x 2202		55 (00:08/00:18)	55 (00:15/00:34)	60 (00:28/01:11)	60 (00:27/01:07)	60 (00:53/02:13)	60 (01:47/04:26)	
			422 HQ		3456 x 2202	3424 x 2202		35 (00:15/00:22)	60 (00:19/00:47)	60 (00:18/00:44)	60 (00:36/01:29)	60 (01:11/02:58)
			4444		3 12 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			25 (00:14/00:15)	60 (00:12/00:32)	60 (00:12/00:30)	60 (00:24/00:59)	60 (00:47/01:58)
			4444 XQ				-	-	40 (00:13/00:21)	50 (00:09/00:20)	60 (00:16/00:39)	60 (00:32/01:19)
		4K Cine	422				40 (00:07/00:12)	40 (00:14/00:24)	48 (00:25/00:49)	48 (00:23/00:46)	48 (00:46/01:33)	48 (01:33/03:05)
			422 HQ	3414 x 2198**	4096 x 2636	4096 x 2636	25 (00:08/00:08)	25 (00:15/00:16)	48 (00:16/00:33)	48 (00:15/00:31)	48 (00:31/01:02)	48 (01:02/02:03)
			4444			.330 x 2030	-	-	40 (00:13/00:22)	48 (00:10/00:21)	48 (00:21/00:41)	48 (00:41/01:22)
			4444 XQ				-	=	25 (00:14/00:15)	30 (00:11/00:14)	48 (00:14/00:27)	48 (00:27/00:55)
	ARRIRAW	3.4K		3424 x 2202	3424 x 2202	3424 x 2202	-	-	-	75 (00:09/00:29)	90 (00:16/00:59)	90 (00:31/01:58)