

ARRI SDI Metadata

incl. changes for ALEXA 35 SUP 1.2

WHITE PAPER

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1 Version History

Version	Author	Change Note
2023-07-14	C. Grafwallner	Create new document for Extended SDI Metadata in ALEXA 35 SUP 1.2

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3 Introduction

This document shows how to read the extended metadata in the SDI signal for all current ARRI digital cameras and how to find it in the reconstructed ARRI v3 4k header.

4 Change Notes

The following table describes all SDI metadata that has changed or been added with SUP 1.2 for the ALEXA 35.

ID	Name	Description
LDI26	Lens Effective Focal Length	Distance between back nodal point and the back focus point
LDI27	Lens Entrance Pupil Position	Distance between the center of the entrance pupil of the lens and sensor plane
CDI02	Camera Type ID	10= ALEXA 35
CID15	ReelName	11 characters string <i>A_0001_1234</i>
CID16	Camera Clip Name	30 characters string <i>A_0001C001_YYMMDD_HHMMSS_a1234</i>

5 SDI Metadata

Several types of metadata are embedded in the SDI output. Metadata is any data besides the image content. This data is in the HANC and VANC space of the SDI signal.

The following table gives an overview of the insertion positions in SDI.

Line	Position	Stream	Link	P / Psf	Content
Line 9 (571)	HANC after EAV	Y	A	P + Psf	Audio Control
Line 9 (571)	HANC after Audio	Y	A + B	P + Psf	HD-SDI Record Start/Stop
Line 9 (571)	HANC after Start/Stop	C	A	P + Psf	Timecode ATC_VITC (incl. Vari-Frame)
All Lines but not 8 (570)	HANC	Y	A + B	P + Psf	Audio Data
Line 10 (572)	HANC after EAV	Y	A + B	P + Psf	Payload ID
Line 10 {572}	HANC after Payload ID	Y	A	P + Psf	Timecode ATC_LTC (incl. Vari-Frame)
Line 9 {571}	VANC	Y	A	P + Psf	Extended Metadata 4K
Line 10 {572}	VANC	Y	A	P + Psf	Extended Metadata 4K, c'd -1-
Line 11 {573}	VANC	Y	A	P + Psf	Extended Metadata 4K, c'd -2-
Line 13 {575}	VANC	Y	A	P + Psf	Extended Metadata LUT
Line 14 {576}	VANC	Y	A	P + Psf	Extended Metadata LUT, c'd -1-
Line 15 {577}	VANC	Y	A	P + Psf	Extended Metadata LUT, c'd -2-
Line 16 {578}	VANC	Y	A	P + Psf	Extended Metadata LUT, c'd -3-

Remarks on insertion positions in SDI:

Line numbers with a () suffix, e.g. (571), indicate that in all cases of Psf transport (not P transport), a second insert shall be made in the second field on the given line (offset is 562).

Line numbers with a { } suffix, e.g. {572}, indicate that in cases of Psf transport where the first and second fields contain different sensor frames (e.g. Dual Link 60p), a second insertion should be made in the second field in the given line, otherwise not.

The presence of some elements depends on user settings. If an element is not present, the insertion position of the remaining elements is shifted towards EAV. In the HANC space there are no gaps between the element.

6 Extended Metadata

Extended metadata is camera specific information, which is embedded into the SDI as ANC packets. It has the same length and structure as the ArriFileV3 header, split into several packets.

6.1 KLV Encoding of the Metadata Block

The ARRI metadata block is wrapped into a KLV structure according to SMPTE 336M-2007.

6.1.1 KLV Encoding of the Metadata Block

Key	is a 16 byte SMPTE Universal Label (UL) that allows identifying data. All Extended Metadata are registered under a class 14 node as ARRI Metadata. The key is: 06 0E 2B 34 02 05 01 0D 0E 17 00 00 00 11 01 01 (hex)
Length of Value	is a 4 byte field that gives the byte length of "Value" ("BER Coding") Length of Value is 4096 (dec) and represents the length of the ARRI Metadata block. The coded value is: 83 00 10 00 (hex)
Value	is the "payload". It represents the ARRI Metadata block consisting of 4096 bytes. It is defined in the document "ArriFileV3.h".

6.1.2 KLV Encoding of a LUT

Key	The key is: 06 0E 2B 34 02 05 01 0D 0E 17 00 00 00 A1 01 01 (hex)																								
Length of Value	for a 12 bit LUT is 6144 (dec). (4096 entries each 12 bit wide and packed without gaps) The coded value is: 83 00 18 00 (hex)																								
Value	is the LUT in binary format. It is packed in a byte array as follows: E0/11 is the MSB of the first element, E4095/0 is the LSB of the last element; the relation o(i) for even and odd i is as follows: <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>LUT index i</th> <th>Byte offset o</th> <th>Byte content</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>E0/11 _____ E0/4</td> </tr> <tr> <td>0, 1</td> <td>1</td> <td>E0/3 __ E0/0, E1/11 __ E1/8</td> </tr> <tr> <td>1</td> <td>2</td> <td>E1/7 _____ E1/0</td> </tr> <tr> <td>2</td> <td>3</td> <td>E2/11 _____ E2/4</td> </tr> <tr> <td>2, 3</td> <td>4</td> <td>E2/3 __ E2/0, E3/11 __ E3/8</td> </tr> <tr> <td>...</td> <td>...</td> <td>...</td> </tr> <tr> <td>4095</td> <td>6143</td> <td>E4095/7_____ E4095/0</td> </tr> </tbody> </table> <p>The LUT is referenced by the accompanying Metadata block (see before).</p>	LUT index i	Byte offset o	Byte content	0	0	E0/11 _____ E0/4	0, 1	1	E0/3 __ E0/0, E1/11 __ E1/8	1	2	E1/7 _____ E1/0	2	3	E2/11 _____ E2/4	2, 3	4	E2/3 __ E2/0, E3/11 __ E3/8	4095	6143	E4095/7_____ E4095/0
LUT index i	Byte offset o	Byte content																							
0	0	E0/11 _____ E0/4																							
0, 1	1	E0/3 __ E0/0, E1/11 __ E1/8																							
1	2	E1/7 _____ E1/0																							
2	3	E2/11 _____ E2/4																							
2, 3	4	E2/3 __ E2/0, E3/11 __ E3/8																							
...																							
4095	6143	E4095/7_____ E4095/0																							

6.1.3 KLV Key Structure

The 16 byte Key (K1.. K16, left to right) has a structure according SMPTE 336M-2007.

K1..K4	06 0E 2B 34	SMPTE
K5..K7	02 05 01	Data structure = Defined Length Pack (4K Block and LUT)
K8..K10	0D 0E 17	SMPTE definition for ARRI
K11..K16		ARRI
K11..K13	00 00 00	Reserved for future extension
K14 / K15		Main-category / Sub-category of ARRI Metadata
	11 / 01	General Metadata / Universal 4K Metadata Block
	A1 / 01	Look and LUT Metadata / Tonemap LUT
K16	01	Version of the ARRI Metadata definition. Incremented only if no more downwards compatible.

6.2 ANC Packet Assembly for Metadata

The complete KLV encoded metadata block (length = 16 + 4 + 4096 = 4116 bytes) is packed into SMPTE 291M Ancillary Data packets (ANC packets). Since ANC packets have a maximal payload size of 255 bytes the metadata block must be segmented. This is done according to SMPTE RP 214-2002, "Packing KLV Encoded metadata and Data Essence into SMPTE 291M Ancillary Data Packets". 18 ANC packets are needed.

6.2.1 ANC Packet Structure for Metadata

ANC Packet #1

ADF (3)	DID, SDID(2)	DC(1)	MID(1)	PSC(2)	Key(16)	Length(4)	Value, first part (210)	CS(1)
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ANC Packets #2 ... #17

ADF (3)	DID, SDID(2)	DC(1)	MID(1)	PSC(2)	Value, subsequent parts(230)			CS(1)
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ANC Packet #18

ADF (3)	DID, SDID(2)	DC(1)	MID(1)	PSC(2)	Value, last part(206)	„0-padding“(24)	CS(1)
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6.2.2 ANC Packet Parameters for Metadata

ADF (3)	= 000, 3FF, 3FF (hex)	Ancillary Data Flag (packet header)
DID, SDID (2)	= 44, 04 (hex)	Packet Id for VANC space (vertical ancillary data space)
DC (1)	= 233 (dec)	length of "User Data Words" (UDW) is 233 for all packets
MID (1)	= e.g. 1 (dec)	Message ID for all metadata packets; it is an arbitrary but identical number for all packets of this KLV object.
PSC (2)	= 1 .. 18 (dec)	18 packets are needed, numbered from 1 to 18.
payload (230)		each ANC packet has a segmented payload of 230 bytes. 18 packets are needed for the 4116 bytes KLV block.
	packet #1	carries "Key", "Length of Value" and the first part of "Value" (as shown above)
	packet #2 ... #17	carry subsequent parts of "Value". Key and Length is not repeated. Identification just by MID, PSC.
	packet #18	carries the last part of "Value" and "zero padding" (24) up to the packet end
CS (1)		checksum to be calculated according to SMPTE 291M

6.2.3 ANC Packet Assembly for LUT

The complete KLV encoded LUT (length = 16 + 4 + 6144 = **6164** bytes) is packed into SMPTE 291M Ancillary Data packets (ANC packets). The segmentation is done in the same way as for the metadata. Here 27 ANC packets are needed are necessary.

6.2.4 ANC Packet Parameters for LUT

The structure and length of each ANC packet is the same as before (see previous page).

ADF (3)	= 000, 3FF, 3FF (hex)	Ancillary Data Flag (packet header)
DID, SDID (2)	= 44, 04 (hex)	Packet Id for VANC space (vertical ancillary data space)
DC (1)	= 233 (dec)	Length of "User Data Words" (UDW) is 233 for all packets
MID (1)	= e.g. 2 (dec)	Message ID for all LUT packets; it is an arbitrary but identical number for all packets of this KLV object.
PSC (2)	= 1 ... 27 (dec)	27 packets are needed, numbered from 1 to 27.
payload (230)		each ANC packet has a segmented payload of 230 bytes. 27 packets are needed for the 6164 bytes KLV block.
	packet #1	carries "Key", "Length of Value" and the first part of "Value"
	packet #2 ... #26	carry subsequent parts of "Value"
	packet #27	carries the last part of "Value" and "zero padding" (46) up to the packet end
CS (1)		checksum to be calculated according to SMPTE 291M

6.2.5 ANC Packet Insert

The Extended Metadata packets are inserted in the same way in all modes of the camera (YUV / RGB / Raw, Single Link / Dual Link, Progressive / Segmented Frame, ..).

All ANC packets are inserted in the VANC space (Vertical Ancillary Data Space). If a LUT is included, seven VANC lines are required, otherwise three lines. The user can specify the lines to be inserted. For compatibility with some recording devices only the Y-stream is used (corresponds to G in case of Dual Link). Packets are inserted just into one link. In case of Dual Link, Link B is unused.

On the next page the content and the position of each ANC packet within the VANC space is given.

Length of KL-Header (*1)	Length of ANC packet complete (*2)	Length of ANC packet payload (*3)
20	240	230

Packet No. PSC	Link ID Of HD-SDI	Stream ID	Line No.	Sample No. at start of ANC Packet	Sample No. at end of ANC Packet	Data Index in KLV wrapped object at start of packet	Data Index in stripped object at start of packet
[1 ... 18]	[A B] (*4)	[Y C] (*5)	[9 ... 20 for psf] [9 ... 41 for p] (*6)	[~ 0 ... 1919] (*7)	[~ 0 ... 1919] (*8)	[~ 0 ... 4115] (*9)	[~ 0 ... 4095] (*10)
Metadata (4kb, MID = 1)							
1	A	Y	9	0	239	0	-20
2	A	Y	9	240	479	230	210
3	A	Y	9	480	719	460	440
4	A	Y	9	720	959	690	670
5	A	Y	9	960	1199	920	900
6	A	Y	9	1200	1439	1150	1130
7	A	Y	9	1440	1679	1380	1360
8	A	Y	9	1680	1919	1610	1590
9	A	Y	9	0	239	1840	1820
10	A	Y	10	240	479	2070	2050
11	A	Y	10	480	719	2300	2280
12	A	Y	10	720	959	2530	2510
13	A	Y	10	960	1199	2760	2740
14	A	Y	10	1200	1439	2990	2970
15	A	Y	10	1440	1679	3220	3200
16	A	Y	10	1680	1919	3450	3430
17	A	Y	11	0	239	3680	3660
18	A	Y	11	240	479	3910	3890
LUT (6kb, MID = 2)							
1	A	Y	13	0	239	0	-20
2	A	Y	13	240	479	230	210

3	A	Y	13	480	719	460	440
4	A	Y	13	720	959	690	670
5	A	Y	13	960	1199	920	900
6	A	Y	13	1200	1439	1150	1130
7	A	Y	13	1440	1679	1380	1360
8	A	Y	13	1680	1919	1610	1590
9	A	Y	14	0	239	1840	1820
10	A	Y	14	240	479	2070	2050
11	A	Y	14	480	719	2300	2280
12	A	Y	14	720	959	2530	2510
13	A	Y	14	960	1199	2760	2740
14	A	Y	14	1200	1439	2990	2970
15	A	Y	14	1440	1679	3220	3200
16	A	Y	14	1680	1919	3450	3430
17	A	Y	15	0	239	3680	3660
18	A	Y	15	240	479	3910	3890
19	A	Y	15	480	719	4140	4120
20	A	Y	15	720	959	4370	4350
21	A	Y	15	960	1199	4600	4580
22	A	Y	15	1200	1439	4830	4810
23	A	Y	15	1440	1679	5060	5040
24	A	Y	15	1680	1919	5290	5270
25	A	Y	15	0	239	5520	5500
26	A	Y	15	240	479	5750	5730
27	A	Y	15	480	719	5980	5960
						6210	6190

Remarks:

(*1) UL Label = 16 Bytes, Length = 4 Bytes

(*2) total length of ANC Packet

(*3) total length – 10 (ADF(3) + DID(2) + Data Count(1) + Segment Message ID(1) + Segment Packet Count(2) + Checksum(1))

(*4) relevant in case of Dual-Link

(*5) Stream Y in Single-Link corresponds to stream G in Dual Link, Link A

(*6) default values are 9-11, 13-16; effective values depend on user settings.

! In case of Psf-transport of 2 sensor frames a second insert takes place in the second field. For Details see appendix A1.

(*7) Sample No. at ANC packet ADF Flag (000)

(*8) Sample No. at ANC packet checksum

(*9) Index pointer in the complete KLV encoded block [0 ... 4115] on the 1st byte of the “UDW-payload”

(*10) Index pointer in the “Value” field of the KLV encoded block [0 ... 4095] on the 1st byte of the “UDW-payload”

7 Timecode

Timecode (ATC) is embedded in the HD-SDI stream according to SMPTE 12M. It represents the timecode of the camera. This timecode is also available in the Extended Metadata as "Master TC" with identical content.

Timecode is inserted as "ATC_LTC" and "ATC_VITC" at the preferred locations in HANC space. This is line 9 for ATC_VITC and line 10 for ATC_LTC [SMPTE 12M-2, page 15], in case of Psf-transport additionally in line 571 and 572. For further details, see appendix A1.

Each sensor image has an ATC_LTC and ATC_VITC packet. For camera frame rates above 30 fps, the implementation follows the "preferred implementation" in paragraph 12.1 of SMPTE 12M-1. which essentially states that the frame counter should be incremented every second frame.

7.1 Panasonic Vari-Frame

A so-called "Vari-Frame Flag" or "Active Frame Flag" is generated according to the Panasonic specification for Vari-Frame. This flag is inserted into the User Data Words (UDW) of the ATC_LTC and ATC_VITC timecode packets, as described previously.

Vari-Frame allows the camera sensor to operate at frame rates lower than the frame rate of the SDI connection. In this case, the in-camera frame buffer provides "duplicated" images to match the speed of the SDI connection. All duplicated frames are marked as "inactive" and should not be recorded.

The Vari-Frame flag consists of two bits that can indicate the status for both fields of a frame separately. Since ARRI cameras always deliver progressive captured sensor frames, there are only two states.

This also applies to psf transport modes where both transport fields carry different sensor frames (e.g. Dual Link 60p). Each sensor frame is accompanied by a timecode packet that marks the frame as active or inactive.

UDW2	UDW2	Interpretation of the Vari-Frame Flag Bits
Bit 5	Bit 4	Status
0	0	Frame is inactive
0	1	Not defined
1	0	Not defined
1	1	Frame is active

The Vari-Frame Flag is also part of the ARRI Extended Metadata. From SUP 7.0 on, the Vari-Frame Flag is always active in the UDW.

7.2 ANC Insert

Inserted into bit 4 and 5 of Timecode User Data Word 2 (UDW2) in ATC_LTC and ATC_VITC (see Basic Metadata)

The Vari-Frame Flag is also included in the ARRI Extended Metadata. This can be used to determine any cloned frames that have been captured accidentally.

8 Recorder Control

For a very basic remote RECORD START/STOP function with the ARRI digital cameras, the recorder should recognize a flag in the SDI signal.

This flag is inserted in the HANC data space according to SMPTE 291 as a type 2 ancillary data packet with DID=0x52 and SDID=0x4D. The data count of the packet is DC=0x0B and the RECORD START/STOP flag is in data word 11, at bit position LSB+1. In REC PAUSE or STOP the bit is '0', in RECORD the bit is '1'.

Note: The data packet position in the HANC data space may shift, depending on SDI mode and enabled/disabled embedded audio. Therefore, identifying the packet by the DID/SDID values is highly recommended instead of decoding by fixed line/sample numbers.

8.1 ANC data packets and code values

ANC data	ANC OFF smpl:cv Y, cv Cb/Cr	ANC ON, STOP smpl:cv Y, cv Cb/Cr	ANC ON, RECORD smpl:cv Y, cv Cb/Cr
ADF	1928:0001000000,1000000000	1928:0000000000,1000000000	1928:0000000000,1000000000
ADF	1929:0001000000,1000000000	1929:1111111111,1000000000	1929:1111111111,1000000000
ADF	1930:0001000000,1000000000	1930:1111111111,1000000000	1930:1111111111,1000000000
DID	1931:0001000000,1000000000	1931:0101010010,1000000000	1931:0101010010,1000000000
SDID	1932:0001000000,1000000000	1932:1001001101,1000000000	1932:1001001101,1000000000
DC	1933:0001000000,1000000000	1933:0100001011,1000000000	1933:0100001011,1000000000
UDW	1934:0001000000,1000000000	1934:1000000001,1000000000	1934:1000000001,1000000000
UDW	1935:0001000000,1000000000	1935:1000000000,1000000000	1935:1000000000,1000000000
UDW	1936:0001000000,1000000000	1936:1000000000,1000000000	1936:1000000000,1000000000
UDW	1937:0001000000,1000000000	1937:1000000001,1000000000	1937:1000000001,1000000000
UDW	1938:0001000000,1000000000	1938:1000000000,1000000000	1938:1000000000,1000000000
UDW	1939:0001000000,1000000000	1939:1000000000,1000000000	1939:1000000000,1000000000
UDW	1940:0001000000,1000000000	1940:1000000001,1000000000	1940:1000000001,1000000000
UDW	1941:0001000000,1000000000	1941:1000000000,1000000000	1941:1000000000,1000000000
UDW	1942:0001000000,1000000000	1942:1000000000,1000000000	1942:1000000000,1000000000
UDW	1943:0001000000,1000000000	1943:1000100000,1000000000	1943:1000100000,1000000000
UDW	1944:0001000000,1000000000	1944:1000000000,1000000000	1944:1000000010,1000000000
CS	1945:0001000000,1000000000	1945:1011001101,1000000000	1945:1011001111,1000000000

Note: The positions of the samples given are only valid without audio in the SDI signal. When audio is embedded in the SDI signal, the horizontal position is shifted.

9 Audio

When audio is active on the ALEXA camera, two audio channels (48 KHz, 24 bit) are embedded as a stereo pair in channel 1 (left) and 2 (right) of audio group 1 in the SDI stream.

For AMIRA cameras 4 audio channels (48 KHz, 24 Bit) are embedded in the SDI stream as channel 1; 2; 3 and 4 of the Audio Group 1.

The insert positions of the audio data and audio control packets are compliant with the SMPTE specification [SMPTE 299, page 18 and 24].

10 Metadata Overview List

The SDI metadata, corresponds to the ARRIRAW ArriFileV3.h header and has a size of 4 KB.

Not all fields of the 4 KB block are filled with content by the camera. The following table gives an overview of the data provided by the cameras.

Note: Some are not identical to the recorded metadata, e.g. image width and height (IDI02 and IDI03), target color space (ICI 16) or image line size (FLI 05 - FLI 10), the values refer to the SDI OUT image.

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
--	Magic Num	0x0000	4	Not documented, since not in use for SDI output	
--	Byte Order	0x0004	4	Not documented, since not in use for SDI output	
--	Header Size	0x0008	4	Not documented, since not in use for SDI output	
--	Version Number	0x000C	4	Not documented, since not in use for SDI output	
Image Data Info					
IDI02	Image Width	0x0014	4	SDI output pixel width: 1920 px or 3840 px	
IDI03	Image Height	0x0018	4	SDI output pixel height: 1080 px or 2160 px	
--	Data Type	0x001C	4	Not documented, since not in use for SDI output	
--	Data Space	0x0020	4	Not documented, since not in use for SDI output	
IDI06-1	Active Image Left	0x0024	4	SDI Pixel Active Image Left: 0px	
IDI06-2	Active Image Top	0x0028	4	SDI Pixel Active Image Top: 0px	
IDI06-3	Active Image Width	0x002C	4	SDI Pixel Active Image width: 1920px or 3840px	
IDI06-4	Active Image Height	0x0030	4	SDI Pixel Active Image height: 1080px or 2160px	
--	Full Image Left	0x0034		Not documented, since not in use for SDI output	
--	Full Image Top	0x0038		Not documented, since not in use for SDI output	
IDI07-3	Full Image Width	0x003C	4	SDI Pixel Full Image Width: 1920px or 3840px	
IDI07-4	Full Image Height	0x0040	4	SDI Pixel Full Image Height: 1080px or 3840px	
--	Image Data Offset	0x0044	4	Not documented, since not in use for SDI output	
--	Image Data Size	0x0048	4	Not documented, since not in use for SDI output	
--	Sensor Readout Offset Horizontal	0x004C	2	Not documented, since not in use for SDI output	
--	Sensor Readout Offset Vertical	0x004E	2	Not documented, since not in use for SDI output	
--	Reserved	0x0050	4	Not documented, since not in use for SDI output	
Image Content Info					
ICI02	Version	0x0058	4	Not documented, since not in use for SDI output	
ICI03	White Balance	0x005C	4	min ="2000" max ="11000" increment in 100k steps	
ICI04	Green Tint Factor	0x0060	4	default="0" min ="-15" max ="+15"	
ICI05	WB Factor R	0x0064	4	Not documented, since not in use for SDI output	
ICI06	WB Factor G	0x0068	4	Not documented, since not in use for SDI output	
ICI07	WB Factor B	0x006C	4	Not documented, since not in use for SDI output	
ICI08	WB Applied In Camera	0x0070	4	0 =No 1 = Yes	
ICI09	Exposure Index ASA	0x0074	4	ASA rating: min =160 max = 6400	
--	Black Level	0x0078	4	Not documented, since not in use for SDI output	
--	White Level	0x007C	4	Not documented, since not in use for SDI output	
--	Color Matrix	0x0080	48	Not documented, since not in use for SDI output	
--	Color Matrix Desat Gain	0x00B0	4	Not documented, since not in use for SDI output	
--	Color Matrix Desat Offset	0x00B4	4	Not documented, since not in use for SDI output	
--	Highlight Desaturation Flag	0x00B8	4	Not documented, since not in use for SDI output	
ICI16	Target Color Space	0x00BC	4	TargetColorSpace 0 = Rec709; 0x2 = LogCWGam; 0x30323032 = Rec2020	
ICI17	Sharpness	0x00C0	4	Sharpness always default = 100 (no sharpening)	

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
ICI18	Pixel Aspect Ratio	0x00C4	4	1.0 for spherical lenses 1.25; 1.3; 1.33; 1.5; 1.65; 1.8; 1.85 and 2.0 for anamorphic lenses	
ICI19	Image Orientation	0x00C8	4	0 = No flip, 1 = H flip (in camera), 12 = H+V flip by reader	
ICI20	Look File	0x00CC	32	32 characters for look file name	
ICI21	Look LUT Mode	0x00EC	4	Not documented, since not in use for SDI output	
ICI22	Look LUT Offset	0x00F0	4	Not documented, since not in use for SDI output	
ICI23	Look LUT Size	0x00F4	4	Not documented, since not in use for SDI output	
ICI24	Look Live Grading Flags	0x00F8	4	Not documented, since not in use for SDI output	
ICI25	CDL Saturation	0x00FC	4	min ="0" max ="2" "1.0 = default"	
ICI26	CDL Slope RGB	0x0100	12	min ="0.5" max ="2" "1.0 = default"	
ICI27	CDL Offset RGB	0x010C	12	min ="-0.5" max ="0.5" "0.0 = default"	
ICI28	CDL Power RGB	0x0118	12	min ="0.5" max ="2" "1.0 = default"	
ICI29	Printer Lights RGB	0x0124	12	Not documented, since not in use for SDI output	
ICI31	CDL Application Mode	0x0130	4	Not documented, since not in use for SDI output Not documented, since not in use for SDI output	
--	Image Data Checksum Type	0x0134	4		
ICI43	Image Data Checksum	0x0138	4	Not documented, since not in use for SDI output	
ICI44	Color Order	0x013C	4	Not documented, since not in use for SDI output	
--	Colorimetric Data Set Type	0x0140	4	Not documented, since not in use for SDI output	
--	Camera Specific Colorimetric Data Offset	0x0144	4	Not documented, since not in use for SDI output	
--	Camera Specific Colorimetric Data Size	0x0148	4	Not documented, since not in use for SDI output	
--	Camera Specific Colorimetric Data CRC	0x014C	4	Not documented, since not in use for SDI output	
--	Reserved	0x0150	16	Not documented, since not in use for SDI output	
Camera Device Info					
				1 = ARRI_CAM_TYPE_D21; 2 = ARRI_CAM_TYPE_ALEXA 3 = ARRI_CAM_TYPE_ALEXA65 4 = ARRI_Mini 5 = AMIRA 8 = ALEXA LF 9 = ALEXA Mini LF 10= ALEXA 35	
CDI02	Camera Type ID	0x0164	4		X
--	Camera Revision	0x0168	4	Not documented, since not in use for SDI output	
--	Firmware Version	0x016C	4	Not documented, since not in use for SDI output	
CDI05	Camera Serial Number	0x0170	4	4 digit number	
CDI06	Camera ID	0x0174	4	Camera ID Prefix R = default L = left eye and camera serial number translated to Base36.	
CDI07	Camera Index	0x0178	4	character A-Z	
CDI08-1	System Image Creation Date	0x017C	4	Date as YYYYMMDD (BCD: 1 digit -> 4 bits) (Dynamic)	
CDI08-2	System Image Creation Time	0x0180	4	Time as HHMMSScc	
CDI09-1	System Image Time Zone Offset	0x0184	4	UTC offset time ±hh:mm from -12:00 to + 14:00	
CDI09-2	System Image Time Zone DST	0x0188	4	DST time hh:mm is 0:00 or + 1:00	
CDI10	Exposure Time	0x018C	4	min = "0,579 ms" max = "41,435 ms"	
CDI11	Shutter Angle	0x0190	4	min ="50" max ="3580"	
--	Speed Ramp Duration	0x0194	4	Not documented, since not in use for SDI output	
--	Speed Ramp Start Frame	0x0198	4	Not documented, since not in use for SDI output	
--	Speed Ramp End Frame	0x019C	4	Not documented, since not in use for SDI output	

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
CDI15	Sensor FPS	0x01A0	4	min ="750" max ="120000"	
CDI16	Project FPS	0x01A4	4	0=23.976fps, 1=24.000fps, 2=25.000fps, 3=29.970fps and 4=30.000fps	
CDI17-1	Master TC	0x01A8	4	Time code as HH:MM:SS:FF (BCD: 1 digit -> 4 bits)	
CDI17-2	Master TC Frame Count	0x01AC	4	7 digit number	
CDI17-3	Master TC Time Base	0x01B0	4	0=23.976fps, 1=24.000fps, 2=25.000fps, 3=29.970fp, 4=30.000fps	
	Master TC Drop Frame Flag	0x01B0	0	Not documented, since not in use for SDI output	
CDI17-5	Master TC User Bits	0x01B4	4	Not documented, since not in use for SDI output	
	Magazine Serial Number Long	0x0248	32	Not documented, since not in use for SDI output	
CDI26	Magazine Serial Number	0x0268	8	32 digit number	
	Reserved	0x0270	12	Not documented, since not in use for SDI output	
CDI28	SMPTE UMID	0x027C	32	64 digit number	
CDI29	Camera Type	0x029C	8	always Alexa	
CDI30	Recorder Type	0x02A4	32	Not documented, since not in use for SDI output	
CDI31	Mirror Shutter Running	0x02C4		0 = No, 1 = Yes Bit 0 in a bit field of 32 bits at offset 0x2c4	
CDI32	Vari Frame	0x02C4		0 = Valid Image, 1 = Duplicate Image Bit 1 in a bit field of 32 bits at offset 0x2c4	
CDI32-1	Return In Active	0x02C4		0 = SDI Return In inactive, 1 = SDI Return In active Bit 2 in a bit field of 32 bits at offset 0x2c4	
CDI32-2	Intercom Active	0x02C4		0 = SDI Return In inactive, 1 = SDI Return In active Bit 2 in a bit field of 32 bits at offset 0x2c4	
--	Reserved Flags	0x02C4		Not documented, since not in use for SDI output	
--	Exposure Phase	0x02C8		Not documented, since not in use for SDI output	
--	Sub Second Frame Count	0x02CC		Not documented, since not in use for SDI output	
CDI36	ARRI UUID	0x02D0	16	8-4-4-4-12 for a total of 36 characters (32 alphanumeric characters and four hyphens)	
CDI37	Camera SUP Name	0x02E0	24	24 alphanumeric characters	
CDI38	Camera Model	0x02F8	20	The text field is a combination of the fixed prefix 'Alexa' followed by possible combinations of the product type and product sub type as strings.	
CDI39	Camera Product	0x030C	2	1 = Alexa50 2 = Alexa50_Plus / Product String: Plus 3 = Alexa50_Rcu / Product String: Rcu 4 = Alexa_Studio / Product String: Studio 5 = Alexa_M / Product String: M 6 = ALEXA	
CDI40	Camera Sub Product	0x030E	2	0 = No sub product 1 = 4:3 2 = HD 4 = XT 8 = XR 16 = B&W 32 = SXT 64 = SXR	
--	Reserved	0x0310	96	Not documented, since not in use for SDI output	
Lens Data Info					
LDI02	Lens Distance Unit	0x0374	4	0=Inch, 1=Meter, 2=Default Unit.	
LDI03	Lens Focus Distance	0x0378	4	Distance in the specified focus unit (1/1000 inch or mm). Special values for: 0 = Focus distance invalid (or not available yet) -1 = Focus distance infinite	
LDI04	Lens Focal Length	0x037C	4	Focal length in 1/1000 mm or 0 if no value is available	
LDI05	Lens Serial Number	0x0380	4	32 digit number	
LDI06-2	Lens Iris	0x0384	4	Conversion of Aperture linear range into T-Stop $\text{int}16 n = (\text{Aperture}/1000)-1$; $T_{\text{stop}} = 2^{(n/2)}$; Near Close = -3, Close = -2, Invalid = -1	

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
LDI07-1	ND Filter Type	0x0388	2	(0) no Filter (1) ND 1.4 (2) ND 0.6 (3) ND 1.2 (4) ND 2.1 (5) ND 1.8	
LDI07-2	ND Filter Density	0x038A	2	Optical density of ND filter * 1000	
--	UV Filter	0x038C	4	Not documented, since not in use for SDI output	
--	IR Filter	0x0390	4	Not documented, since not in use for SDI output	
--	IR BlackFilter	0x0394	4	Not documented, since not in use for SDI output	
LDI11	Lens Model	0x0398	32	Lens model as a 32 letter string	
LDI12-1	RawEncoderFocusLds	0x03B8	2	0 to 65535 (uint16)	
LDI12-2	RawEncoderFocusMotor	0x03BA	2	0 to 65535 (uint16)	
LDI13-1	RawEncoderFocalLds	0x03BC	2	0 to 65535 (uint16)	
LDI13-2	RawEncoderFocalMotor	0x03BE	2	0 to 65535 (uint16)	
LDI14-1	RawEncoderIrisLds	0x03C0	2	0 to 65535 (uint16)	
LDI14-2	RawEncoderIrisMotor	0x03C2	2	0 to 65535 (uint16)	
LDI15-1	EncoderLimFocusLdsMin	0x03C4	2	0 to 65535 (uint16)	
LDI15-2	EncoderLimFocusLdsMax	0x03C6	2	0 to 65535 (uint16)	
LDI16-1	EncoderLimFocalLdsMin	0x03C8	2	0 to 65535 (uint16)	
LDI16-2	EncoderLimFocalLdsMax	0x03CA	2	0 to 65535 (uint16)	
LDI17-1	EncoderLimIrisLdsMin	0x03CC	2	0 to 65535 (uint16)	
LDI17-2	EncoderLimIrisLdsMax	0x03CE	2	0 to 65535 (uint16)	
LDI18-1	EncoderLimFocusMotorMin	0x03D0	2	0 to 65535 (uint16)	
LDI18-2	EncoderLimFocusMotorMax	0x03D2	2	0 to 65535 (uint16)	
LDI19-1	EncoderLimFocalMotorMin	0x03D4	2	0 to 65535 (uint16)	
LDI19-2	EncoderLimFocalMotorMax	0x03D6	2	0 to 65535 (uint16)	
LDI20-1	EncoderLimIrisMotorMin	0x03D8	2	0 to 65535 (uint16)	
LDI20-2	EncoderLimIrisMotorMax	0x03DA	2	0 to 65535 (uint16)	
LDI21	Lds Lag Type	0x03DC	1	0 = no lag, 1 = constant lag 2 = unknown lag	
LDI22	Lds Lag Value	0x03DD	1	The lag value is 1 frame delay	
LDI23	Raw Encoder Lag Type	0x03DE	1	0 = no lag, 1 = constant lag 2 = unknown lag	
LDI24	Raw Encoder Lag Value	0x03DF	1	The lag value is 1 frame delay	
LDI25	Ef Is Active	0x03E0	4	invalid FF = No, 1 = Yes	
LDI26	Axial Effective Focal Length	0x03E4	4	Value in μm	X
LDI27	Entrance Pupil Position	0x03E8	4	Value in μm	X
LDI29	Reserved	0x03EC	76	Not documented, since not in use for SDI output	
VFX Info					
--	GPS Latitude North	0x043C	4	Not documented, since not in use for SDI output	
--	GPS Latitude Latitude	0x0440	4	Not documented, since not in use for SDI output	
--	GPS Longitude East	0x0444	4	Not documented, since not in use for SDI output	
--	GPS Longitude Longitude	0x0448	4	Not documented, since not in use for SDI output	
--	X	0x044C	4	Not documented, since not in use for SDI output	
--	Y	0x0450	4	Not documented, since not in use for SDI output	
--	Z	0x0454	4	Not documented, since not in use for SDI output	
--	Camera Pan	0x0458	4	Not documented, since not in use for SDI output	
VFX08	Camera Tilt	0x045C	4	min="-90.000" max="90.000"	
VFX09	Camera Roll	0x0460	4	min="-180.000" max="180.000"	
VFX10	MasterFlag	0x0464	4	0=independent 1=master 2=slave	
VFX11	Channel Info	0x0468	4	0 = single, 1 = left eye, 2 = right eye	
	PartnerId	0x046C	4	Not documented, since not in use for SDI output	
	Reserved	0x0470	128	Not documented, since not in use for SDI output	
Clip Info					

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
CID02	Circle Take	0x04F4	4	invalid FF = No, 1 = Yes	
CID03	Reel Name Old	0x04F8	8	max 8 characters string	
CID04	Scene Name	0x0500	16	max 16 characters string	
CID05	Take Name	0x0510	8	max 8 characters string	
CID06	Director	0x0518	32	max 24 characters string	
CID07	Cinematographer	0x0538	32	max 24 characters string	
CID08	Production	0x0558	32	max 24 characters string	
CID09	Company	0x0578	32	max 24 characters string	
CID10	Location	0x0598	256	max 24 characters string	
CID11	User Info 1	0x0598	0	max 24 characters string	
CID12	User Info 2	0x0598	0	max 24 characters string	
CID14	Operator	0x0598	0	max 24 characters string	
CID13	Camera Clip Name Old	0x0698	24	Only 20 characters fixed for A001C001_YYMMD_R123	
CID15	ReelName	0x06B0	11	11 characters string A_0001_1234	X
CID16	Camera Clip Name	0x06BB	34	30 characters string A_0001C001_YYMMDD_HHMMSS_a1234	X
	Reserved	0x06DD	56	Not documented, since not in use for SDI output	
Sound Info					
--	SoundTC Time Code	0x071C	4	Not documented, since not in use for SDI output	
--	SoundTC Frame Counter	0x0720	4	Not documented, since not in use for SDI output	
--	SoundTC Time Base	0x0724	4	Not documented, since not in use for SDI output	
--	SoundTC Drop Frame Flag	0x0724	0	Not documented, since not in use for SDI output	
--	SoundTC User Bits	0x0728	4	Not documented, since not in use for SDI output	
--	Sound File Name	0x072C	20	Not documented, since not in use for SDI output	
SID04	Sound Roll Name	0x074C	32	max 8 character string	
--	Scene File Name	0x076C	32	Not documented, since not in use for SDI output	
--	Take File Name	0x078C	32	Not documented, since not in use for SDI output	
--	Info	0x07AC	32	Not documented, since not in use for SDI output	
--	Audio Data Offset	0x07CC	4	Not documented, since not in use for SDI output	
--	Audio Data Size	0x07D0	4	Not documented, since not in use for SDI output	
--	Reserved	0x07D4	32	Not documented, since not in use for SDI output	
Camera Info					
--	Temp Sensor	0x07F8	4	Not documented, since not in use for SDI output	
--	Temp Alog Fpga	0x07FC	4	Not documented, since not in use for SDI output	
--	Temp Apic Fpga	0x0800	4	Not documented, since not in use for SDI output	
--	Temp Acom Fpga	0x0804	4	Not documented, since not in use for SDI output	
--	Temp Alog Board	0x0808	4	Not documented, since not in use for SDI output	
--	Temp Apic Board	0x080C	4	Not documented, since not in use for SDI output	
--	Temp Acom Board	0x0810	4	Not documented, since not in use for SDI output	
--	Main Voltage	0x0814	4	Not documented, since not in use for SDI output	
--	On Board Voltage	0x0818	4	Not documented, since not in use for SDI output	
--	User Pixel Mask	0x081C	4	Not documented, since not in use for SDI output	
--	User Pixel Map Data Offset	0x0820	4	Not documented, since not in use for SDI output	
--	User Pixel Map Data Size	0x0824	4	Not documented, since not in use for SDI output	
--	Def Data	0x0828	4	Not documented, since not in use for SDI output	
--	Def Data Offset	0x082C	4	Not documented, since not in use for SDI output	
--	Def Data Size	0x0830	4	Not documented, since not in use for SDI output	
--	Reserved	0x0834	20	Not documented, since not in use for SDI output	
Frame Line Info					
--	Version	0x084C	4	Not documented, since not in use for SDI output	
FLI03	Frame Line File 1	0x0850	32	max 32characters string or 32 x 0xFF if not set	

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
FLI04	Frame Line File 2	0x0870	32	max 32characters string or 32 x 0xFF if not set	
FLI05 struct	Frame Line Rectangle Frame Line 1A	0x0890	48	Struct for Frame Line 1A	
FLI05-1	Frame Line 1A Type	0x0890	4	Type 0 = Inactive 1 = Master and 2 = Aux	
FLI05-2	Frame Line 1A Name	0x0894	32	max 32 characters string	
FLI05-3	Frame Line 1A Left	0x08B4	2	Pixel range from minimum = 0 to maximum = rectangle Width	
FLI05-4	Frame Line 1A Top	0x08B6	2	Pixel range from minimum = 0 to maximum = rectangle height	
FLI05-5	Frame Line 1A Width	0x08B8	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
FLI05-6	Frame Line 1A Height	0x08BA	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
--	Frame Line 1A Horizontal Line Len	0x08BC	2	Not documented, since not in use for SDI output	
--	Frame Line 1A Vertical Line Len	0x08BE	2	Not documented, since not in use for SDI output	
FLI06 struct	Frame Line Rectangle Frame Line 1B	0x08C0	48	Struct for Frame Line 1B	
FLI06-1	Frame Line 1B Type	0x08C0	4	Type 0 = Inactive 1 = Master and 2 = Aux	
FLI06-2	Frame Line 1B Name	0x08C4	32	max 32 characters string	
FLI06-3	Frame Line 1B Left	0x08E4	2	Pixel range from minimum = 0 to maximum = rectangle Width	
FLI06-4	Frame Line 1B Top	0x08E6	2	Pixel range from minimum = 0 to maximum = rectangle height	
FLI06-5	Frame Line 1B Width	0x08E8	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
FLI06-6	Frame Line 1B Height	0x08EA	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
--	Frame Line 1B Horizontal Line Len	0x08EC	2	Not documented, since not in use for SDI output	
--	Frame Line 1B Vertical Line Len	0x08EE	2	Not documented, since not in use for SDI output	
FLI07 struct	Frame Line Rectangle Frame Line 1C	0x08F0	48	Struct for Frame Line 1C	
FLI06-1	Frame Line 1C Type	0x08F0	4	Type 0 = Inactive 1 = Master and 2 = Aux	
FLI07-2	Frame Line 1C Name	0x08F4	32	max 32 characters string	
FLI07-3	Frame Line 1C Left	0x0914	2	Pixel range from minimum = 0 to maximum = rectangle Width	
FLI07-4	Frame Line 1C Top	0x0916	2	Pixel range from minimum = 0 to maximum = rectangle height	
FLI07-5	Frame Line 1C Width	0x0918	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
FLI07-6	Frame Line 1C Height	0x091A	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
--	Frame Line 1C Horizontal Line Len	0x091C	2	Not documented, since not in use for SDI output	
--	Frame Line 1C Vertical Line Len	0x091E	2	Not documented, since not in use for SDI output	
FLI08 struct	Frame Line Rectangle Frame Line 2A	0x0920	48	Struct for Frame Line 2A	
FLI08-1	Frame Line 2A Type	0x0920	4	Type 0 = Inactive 1 = Master and 2 = Aux	
FLI08-2	Frame Line 2A Name	0x924	32	max 32 characters string	
FLI08-3	Frame Line 2A Left	0x944	2	Pixel range from minimum = 0 to maximum = rectangle Width	
FLI08-4	Frame Line 2A Top	0x946	2	Pixel range from minimum = 0 to maximum = rectangle height	

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
FLI08-5	Frame Line 2A Width	0x948	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
FLI08-6	Frame Line 2A Height	0x94A	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
--	Frame Line 2A Horizontal Line Len	0x94C	2	Not documented, since not in use for SDI output	
--	Frame Line 2A Vertical Line Len	0x94E	2	Not documented, since not in use for SDI output	
FLI09 struct	Frame Line Rectangle Frame Line 2B	0x0950	48	Struct for Frame Line 2B	
FLI09-1	Frame Line 2B Type	0x0950	4	Type 0 = Inactive 1 = Master and 2 = Aux	
FLI09-2	Frame Line 2B Name	0x0954	32	max 32 characters string	
FLI09-3	Frame Line 2B Left	0x0974	2	Pixel range from minimum = 0 to maximum = rectangle Width	
FLI09-4	Frame Line 2B Top	0x0976	2	Pixel range from minimum = 0 to maximum = rectangle height	
FLI09-5	Frame Line 2B Width	0x0978	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
FLI09-6	Frame Line 2B Height	0x097A	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
--	Frame Line 2B Horizontal Line Len	0x097C	2	Not documented, since not in use for SDI output	
--	Frame Line 2B Vertical Line Len	0x097E	2	Not documented, since not in use for SDI output	
FLI10 struct	Frame Line Rectangle Frame Line 2C	0x0980	48	Struct for Frame Line 2C	
FLI10-1	Frame Line 2C Type	0x0980	4	Type 0 = Inactive 1 = Master and 2 = Aux	
FLI10-2	Frame Line 2C Name	0x0984	32	max 32 characters string	
FLI10-3	Frame Line 2C Left	0x09A4	2	Pixel range from minimum = 0 to maximum = rectangle Width	
FLI10-4	Frame Line 2C Top	0x09A6	2	Pixel range from minimum = 0 to maximum = rectangle height	
FLI10-5	Frame Line 2C Width	0x09A8	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
FLI10-6	Frame Line 2C Height	0x09AA	2	Pixel count from minimum = 0 to maximum = highest recording resolution	
--	Frame Line 2C Horizontal Line Len	0x09AC	2	Not documented, since not in use for SDI output	
--	Frame Line 2C Vertical Line Len	0x09AE	2	Not documented, since not in use for SDI output	
--	Reserved	0x09B0	32	Not documented, since not in use for SDI output	
Noise Reduction Info					
	Version	0x09D4	4	Not documented, since not in use for SDI output	
NRI03	Noise Reduction Mode	0x09D8	4	ARRI_NOISE_REDUCTION_OFF : no noise reduction ARRI_NOISE_REDUCTION_ANR 1 : ARRI Noise Reduction 0xFFFFFFFF : same as ARRI_NOISE_REDUCTION_OFF	
NRI04	Noise Reduction Strength	0x09DC	4	ANR 1 Default 2.5	
NRI05	Noise Reduction applied	0x09E0	4	0xFFFFFFFF or 0x0: noise reduction not yet applied or off 0x1: noise reduction already applied	
--	NoiseReductionFootprint	0x09E4	4	Not documented, since not in use for SDI output	
--	BurstNRActive	0x09E8	4	Not documented, since not in use for SDI output	
--	Reserved	0x09EC	28	Not documented, since not in use for SDI output	
Lens Converter Info					
LCI02	Model	0x0A0C	64	empty if no converter is present	
LCI03	Serial Number	0x0A4C	64	empty if no converter is present	
LCI04	Physical Length	0x0A8C	4	0 if no converter is present Physical length in µm	

ID	Name	Offset (Bytes)	Size (Bytes)	Value Range	New in SDI ALEXA 35
LCI05	Light Loss Factor	0x0A90	4	0 if no converter is present Light loss factor * 1000,	
LCI06	Focal Length Multiplier	0x0A94	4	0 if no converter is present Focal length multiplier * 1000,	
--	Reserved	0x0A98	8	Not documented, since not in use for SDI output	
ARRI Reserved					
--	Reserved	0x0AA4	1372	Not documented, since not in use for SDI output	

11 Contact

If you have any questions regarding SDI metadata, please feel free to contact us via email at digitalworkflow@arri.de.