

ARRI Metadata

Unreal Engine Plug-in with the UMC-4 and Alexa35

Plug In User Manual

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Version: 1.04

Version History

Version	Author	Change Note
V1.04 (2023-09- 06)	Kristin Wloka	Bug fixes for Alexa35 and additional metadata in Live Link Camera Frame Data
V1.03 (2022-09- 02)	Oestreich Andreas / Kristin Wloka	Updated for Alexa35
V1.02 (2021-12- 06)	Oestreich Andreas	Adding new features form Changelog (V1.02)
V1.01 (2021-07- 08)	Oestreich Andreas	Formatted and structured
V1.0 (2021-06- 23)	Oestreich Andreas	Initial Version

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1.0 UMC-4 / Alexa35 Configuration

1.1 UMC-4 Update Firmware

To update the device, proceed as follows:

- 1. Copy the firmware update package onto an SD card.
- 2. Insert the SD card in the SD card slot of the UMC-4.
- 3. Select Menu>System>Firmware Update and navigate to the update package on the SD card.
- 4. Select the package. A list of modules will be shown on the screen.
- 5. Press UPDATE. A new warning screen will be displayed. Proceed by simultaneously pressing the two UPDATE buttons. The screen will blackout and the status LED starts blinking red and green. The unit is being updated. This can take up to 30 seconds.
- 6. The UMC-4 will reboot after the update is completed. Depending on the update package content, additional modules might need to be updated after reboot; this is done automatically and is clearly indicated on the screen of the device. The second phase of the update procedure may take several minutes.

NOTE:

You may also update the Firmware via a Web browser if your device is accessible via Network. Navigate to the UMC's IP Address and follow the steps for the Firmware update in the Tab "Firmware".

1.2 UMC-4 Setup

NOTE:

Before using the UMC for Metadata streaming, make sure your UMC unit has a valid MAC address. To check this, navigate to: **MENU->SYSTEM->NETWORK->SHOW PARAMETERS** In the bottom line you will see the MAC address. If this is set to: 123456789AB, your UMC device needs to be sent to ARRI Service for repair.

- 1. Choose whether you want to stream the data via Unicast or Multicast and set the parameter in the Network settings of the UMC device (MENU->SYSTEM->NETWORK)
- 2. Configure the UMCs IP Address. Navigate to: MENU->SYSTEM->NETWORK. Either use DHCP or configure a manual IP Address. (Ask your IT admin what settings to use)
- Configure the streaming Address: Navigate to MENU->SYSTEM->NETWORK->Streaming Address.
- For Multicast: Set in range 239.192.x.x
 For Unicast: Set to the IP Address of the receiving device (e.g., 192.168.0.50)
 For Alexa Mini, Mini LF and AMIRA cameras:

Set the device to get its metadata from the camera: Navigate to: MENU->LENS->Set "Lens data source" to "CAM"

For ALEXA XT, SXT, LF and 65 or Thirdparty cameras:

Set the device to generate the metadata from the motor values: Navigate to: **MENU->LENS->Set "Lens data source" to "UMC"**

5. To activate the streaming navigate to: MENU -> METADATA -> STREAM->"ON"

The UMC-4 will now continuously send (and record on SD card, if enabled) the Lens Metadata to the designated multicast Address.

1.3 Alexa35 Configuration

For the detailed Configuration of the Alexa35, please refer to its user manual.

https://www.arri.com/resource/blob/284044/2c3e40c90b7faae31f794dc40a5f9c58/alexa-35-usermanual-data.pdf

The camera supports to stream real time metadata via Ethernet, to be used in virtual studios (aka volumes with an LED wall, aka mixed reality production systems). For more information please refer to

Streaming Addressing

► Select MENU > System > Network / WiFi > Streaming Metadata > Streaming Addressing to set the type of addressing.

Following options are available:

UnicastThe metadata is transmitted from the camera to an endpoint via any nodes.MulticastThe metadata is transmitted to multiple recipients or to a closed group of recipients.

Streaming Address

Select MENU > System > Network / WiFi > Streaming Metadata > Streaming Address to set the destination IP address.

Info: When streaming addressing is set to Multicast, the allowed address range is within IP subnet 239.192.0.0/16.

Streaming Port

► Select MENU > System > Network / WiFi > Streaming Metadata > Streaming Port to set the destination port between 1024 and 65535.

Enable Streaming

Select MENU > System > Network / WiFi > Streaming Metadata > Enable Streaming to enable metadata streaming.

2.0 Camera Setups

2.1 Alexa Mini LF / Alexa Mini / Amira

2.1.1 LDS - CForce

Alexa Mini LF / Alexa Mini / AMIRA LDS lens



2.1.2 LDA/LDM - CForce

Alexa Mini LF with LDM and LDA lenses



2.2 ALEXA SXT / XT / 65 / LF

2.2.1 LDS - CLM



2.2.3 LDS - CForce



3.0 Unreal Engine

3.1 Version Compatibility

3.1.1 Unreal Engine

The Arri Unreal Engine PlugIn (1.04) is now compatible with Unreal Engine Version 4.27.2 and newer. Due to changes to the way the Live Link camera works, 4.26.x and older is no longer supported.

3.1.2 UMC-4

This PlugIn Version (1.04) is compatible with UMC Firmware:

umc4-2.3.2645

3.2 Setup

Copy the Plug-in to either your project or engine folder and make sure it is activated in Unreal Engine.



Make sure you have activated the LiveLink Plug-in and, if necessary, the Live Link over nDisplay Plug-in.



For UE 4.27 you also have to activate the Live Link camera Plug-in



3.3 Live Link

3.3.1 Setup

Before Setting up your Live Link make sure your UMC-4 unit is configured to your needs, either streaming as Multicast or Unicast via UDP.

- Go To Window -> Live Link and hit the "+Source" button.
- Select Arri Live Link Source and configure the settings:

Mode	Multicast or Unicast (from UMC-4 configuration)
Subject Name	Name for your Live Link subject
IPAddress	Your network card's IP address, that is receiving the metadata from the streaming device.
	You can configure the IP Address with a wildcard (*), should you have multiple devices receiving the data. The devices must be in an identical subnet, e.g. 192.168.0.*
	This will ensure the creation of the subject on the correct IP-Address Endpoint over multiple machines from a live link preset.
UDP Port Number	The port number configured in the UMC-4 (Default is 5432)
Multicast Address	Multicast address in local scope 239.192.x.x (Default is: 239.192.1.1)

NOTE: If your machine has multiple network cards you need to make sure you set the IP address to your preferred network card, otherwise Unreal Engine might default to the wrong network interface (0.0.0.0) and you will not be able to receive the data.

U Live Link	×				- 🗆 X
+ Source - 🕅 Presets -					¢°
LiveLink Sources Hand Tracking Source Message Bus Source	Source Machine DESKTOP-FFD0VTA	Status Active		à	
Arri Live Link Source LiveLink VirtualSubject Sources Add Virtual Subject Subject Name	Connection Settings Mode Multicast Mo IPAddress 0.0.0.0	de 🔻	le		
✓ Arri Live Link controller ✓ Arri-UMC-4@192.16	UDPPort Num 5432 Multicast Adc 239.192.1.1	Add	nera		
			2		
• Applied 'LiveLinkPre	eset /Game/ARKI.ARKI'				
0 Error(s) 0 Warning(s)					Clear

If everything is setup correctly, your Live Link subject will be automatically created.

For troubleshooting you can always view the Output Log and monitor "LogArri" to see whether your sockets are being created or whether any Warnings or Errors are thrown.

3.3.2 Workflow

3.3.2.1 Adding your subject to the cine camera

- Create a new Cine Camera Actor and place it in your scene.
- Add a Live Link Component to it. In the Live Link component select your Live Link subject.
- Once you have selected the Arri-UMC subject, the camera data is applied to the cine camera.
- Lastly make sure you untick "World transform" in Role Controllers -> Transform Role -> Live Link or set the Transform Role to "None"

	CineCameraActo ↑ Cube ↑ Floor ↓ Light Source ↓ Player Start ↓ Sky Sphere ↓ SkyLight ↓ SphereReflection	r] Capture	CineCameraActor StaticMeshActor StaticMeshActor DirectionalLight PlayerStart Edit BP_Sky_Sphere SkyLight SphereReflectionCapture
CineCameraActor1	9 actors (1 selected)		Sew Options →
	CineCameraActor1 + Add Component Search Components		୍ଧ ଅଞ୍ଚ Blueprint/Add Script ହ
FilmbackPreset; 16:9 Digital Film Zoom: 25mm Av: (CifieCameraActori (Instand CifieCameraActori (Instand SceneComponent (Scen CameraComponent (C	ce) neComponent) (Inherited) CameraComponent) (Inherited)	
0			
<pre>.//.rengine/content/Sidte/ronts/Noboto-Regular //./Engine/Content/Sidte/Fonts/Roboto-Bold.tt //.Fngine/Content/Sidte/Fonts/FontAwe //.hrgine/Content/Sidte/Fonts/DroidSansMono. NumSamples 1 (Frame:1), rchicalLODOutliner' in 0.0003 seconds. Added 0 cl</pre>	Search Details D Subject Representation D Component to Control	Arri-UMC-4@192.168.0.220 Camera Role	• • 🔜 🔍
conds (updated 0 objects)	Disable Evaluate Live Link who Evaluate Live Link	• 2 2 -	
	▲ Role Controllers Basic Role	None 🔽	
'was aborted. riCamMetadataUnrealPlugIn/ArriCamMetadataDemo/Plu .//./Engine/Content/Slate/Fonts/Roboto-Light.t	▲ Transform Role ▲ Live Link	Live Link Transform Controlle	er 💌
.///Engine/Content/Slate/Fonts/Roboto-Italic. Component) .///Engine/Content/Slate/Fonts/Roboto-Light.t	World Transform	•	i e
rriCamMetadataDemo/Saved/CineCameraTest_Auto1A3D2 eCameraTest' took 0.033	Camera Role	Live Link Camera Controller	•
Tevers took 0.033	⊿ Tags		

3.3.2.2 Arri Live Link Camera Controller

For additional features you can enable the ArriLiveLinkCameraController from the Live Link Component Controller Menu. (LiveLinkComponentController->Role Controller->Camera Role)

	CineCameraActor1			ſ.
	+ Add Component -		og Blueprint/Add S	cript
	Search Components			Q
	😻 CineCameraActor1 (Instance)			
eraActor I	SceneComponent (SceneCompo Sy CameraComponent (CameraComponent (CameraComponent)	onent) (Inherited) component) (Inherited)		
-	LiveLinkComponentController			
and the second sec				
	Search Details		Ω	••
al Sila 17 and 95 770 mm LA	D Component to Control	🖏 CameraCompor 🗸 🐄		
an Finin (120 ann 1967 ann 1977	Disable Evaluate Live Link when Spawr			
	Evaluate Live Link			
		-		
	A Role Controllers			
G	Basic Role	None 💌		
	Transform Role	None 💌		_
	🖌 Camera Role	Live Link Camera Controller	•	
	Camera Calibration	C	ontrollers	
	Use Camera Range	•	Live Link Camera Controller	
	▷ Lens File Picker		Arri Live Link Camera Controller	
	Use Cropped Filmback			
	Cropped Filmback	Custom 🔻		
	Apply Nodal Offset			
	🔲 Overscan Multiplier	1,0 0		
	4 Sottingo			

3.3.2.3 Timecode

You can stream the timecode from the UMC-4 from your Live Link subject to the Unreal Engine's Timecode Provider.

To do this, create a new Media Profile:

- Right click in Content browser->Media->New Media Profile
- Open the Media Profile and go to: Timecode Provider
- Tick the "Override Project Settings"
- As Timecode Provider select the Live Link Timecode Provider and as subject the ARRI Live Link subject.
- Hit save and open the Timecode Provider Window. Your engine timecode is now streamed from the UMC-4.

⊿ Inputs		
▲ Media Sources		
0	None 💌 🕤	
1	None 💌 🕤	
⊿ Outputs		
✓ Media Outputs		
0	None	
∡ Timecode Provider		
Override Project Settings	✓ 5	
▲ Timecode Provider	🔵 Live Link Timecode Provider 🛛 👻 🕤	
∡ Timecode		
Subject Key	Arri Live Link controller Arri-UMC-4@192.168.0.220	LiveLinkTimecodeFrovider_0 25 fps
Evaluation	Lerp 👻	00:45:52:20 -
Override Frame Rate	24 fps (film) 👻	
Buffer Size	4 2	
p Settings		

9 actors (1 selected)	
Details	
CineCameraActor1	
+ Add Component -	
Search Components	
🐨 CineCameraActor1 (Instance)	
A SceneComponent (SceneComponent) (Inher	rited)
CameraComponent (CameraComponent)	(Inhented)
2 LiveLinkComponentController1	
Search Details	
Referenced Actor	
Component Name	CameraComponent
Disable Evaluate Live Link when Spawnable	
Evaluate Live Link	S
Update in Editor	
4 Bole Controllers	A
Basic Role	None
Transform Bole	
▲ Camera Role	Arri Live Link Camera Controller
🔺 Arri	
Depth Of Field Multiplier	1,0
Override Iris	•
New Iris	2.8
Set Filmback	P
Arri Camera	Alexa LF 🔹 🤉
Alexa Mini LFPreset	None
Alexa Mini Preset	None
Alexa LFPreset	ARRIRAW LF 16:9 4K UHD -
Amira Preset	None
Alexa 65Preset	None
D Camera Calibration	
▷ Settings	
D Debug	

3.3.2.4 Sensor Size & Metadata manipulation

The sensor size is not streamed from the UMC4. You can choose the correct sensor size from the Arri Live Link Camera Controller: Simply check "set Filmback" and choose your Arri camera and its sensor setting. This will automatically apply the correct sensor width and height to your CineCameraComponent. You can also

manipulate the Depth of field with a multiplier or override the Iris of the virtual camera.

3.3.2.5 Additional Metadata from Live Link

You can access additional metadata from the Live Link subject in Blueprints.

Open your Blueprint class or your level blueprint and create the following Nodes.

🗦 Event Tick 🛛 🗖	f Evaluate Live Link Frame		f Print String
	-	Valid Frame 🕨 🗕	——————————————————————————————————————
Delta Seconds 🔿	Subject	Invalid Frame D	- 🕒 In String
	Arri-UMC-4@192.168.0.220	Data Result 🔷	Print to Screen
	🏊 Role Camera Role 🖛 🔶 🔎		Print to Log 🗹
			Text Color
			Duration 2,0
	📑 Break LiveLinkCameraBlueprint	lata	Development Only
	Live Link Camera Blueprint Data	Static Data 📀	
		Frame Data 🌑 ———————————————————————————————————	
		X	
	📑 Break LiveLinkCameraFrameDat		
	Live Link Camera Frame Data	Field Of View 🔿	
		Aspect Ratio 🔿	
		Focal Length 🔿	
		Aperture 📀	
		Focus Distance 📀	\mathbf{N}
		Projection Mode	\
		Transform O)
		Meta Data Scene Time Scene Time	
		Property Values III	

You can access all the camera metadata from the Live Link camera, including the timecode.

Additionally, embedded in the Meta Data field of the Live Link Frame data, you will find the following properties. These can only be stored as Strings. If you want to use them, you need to take care of the conversion from String to designated datatype in Blueprints.

Кеу	Data type present in String
CameraHealth	ENUM
	Always was such as the FNUM Name and then the
	Always presented by the ENUM Name and then the
	current value, e.g.
	FArriCameraHealthState::G00D
	GOOD
	ERROR
	WARNING
	UNKNOWN
CameraMajorState	ENUM
	Always presented by the ENLIM Name and then the
	current value e.g.
	ourrent value, e.g.
	FArriCameraMajorState::CS_RECORDING
	CS_IDLE
	CS_STANDBY
	CS_REC_START
	CS_RECORDING
	CS_REC_STOP
	CS_PREREC_STOP
	CS_PLAYBACK
	CS_ERASE
	CS_DELETE
	CS_INITIALIZE
	CS_SHUTDOWN

	CS_UPDATE
ExposureIndex	integer
ExposureTime	float
ShutterAngle	float
NDDensity	float
CCT	integer
tint	float
Roll	float
Tilt	float
Clipname	String

3.4 Blueprint

You can access all the metadata without using Live Link.

NOTE: If you do this, make sure you are not using Live Link at the same time. You must use one or the other, or you will have a conflict in the created socket, resulting in undefined behaviour. **Exception:**

Should you be streaming the data via Multicast to two different network cards, you can setup a Live Link and Blueprint workflow simultaneously, since you can create a socket per network card. Just make sure you are using the correct IP address.

- Begin by creating an ArriDevice Variable:
- +Variable -> Variable Type -> Object Types -> ArriDevice -> Object Reference
- On Event Begin Play initialize the ArriDevice with your desired settings.
- Drag the ArriDevice Variable in the blueprint and set it from the Init Device output.
- Drag the Arri Device into your Blueprint again and use "get". Drag out from its output and use the function "get Metadata". Connect it to the Event Tick.
- The return value can now be broken (break ArriMetadata) and you will have access to all the metadata streamed from the UMC-4 or Alexa35.
- Lastly close the device on Event End Play with the function "close device".

You can now build your own logic with all the provided metadata.

🚨 My Blueprint 🛛 🛛	*		• 🚚 💷			
+ Add New - Search	🖸 👁 🗕 🛛 🗸 🖉	save Browse Find Hide Uni	related Class Settings Class Defaul	ts Play	No debug object selected Debug Filter	
⊿Graphs ▲ SeventGraph	+ Event G	raph ×				
 Event BeginPlay Event Tick Event End Play 	☆ ◆	♦ E CineCameraTest >	· Event Graph			
Functions (17 Overridable)	+					
Macros	+	C Event BeginPlay	∫ Init Device		PET	
⊿ Variables	+		•	•		
O ArriDevice			Mode Multicast Mode	Return Value 🔿	Arri Device	
Event Dispatchers	+		D IBAddroop 102 168 0 50			
			UDDDark Number [5422]			
			Multicast Address			
			239.192.1.1			
			f Get Matadata			
		C Event Tick	Target is Arri Device			
					📑 Break ArriMetadata	
		Delta Seconds O	Target Return Value		🔷 🕒 Arri Metadata 🛛 Camera State 💿	
					Camera Model 📀	
		Arri Device				
			f Close device			
		Event End Play	Target is Arri Device			
		End Play Reason Arri De	vice			

3.4.1 Metadata types and availability based on camera system

Metadate	Alexa MiniLF AMIRA Alexa Mini	ALEX A XT SXT 65 LF	Alexa 35	LiveLi nk	Bluepri nt	comment	datatype
							ENUM
camera health	x	x	x	x	x	Current health state of the camera	GOOD ERROR WARNING UNKNOWN
							ENUM
camera major state	x	x	x	x	x	Current state of the camera as displayed e.g. on the Home Screen	CS_IDLE CS_STANDBY CS_REC_START CS_RECORDING CS_REC_STOP CS_PREREC_START CS_PRE_RECORDING CS_PREREC_STOP CS_PLAYBACK CS_DELETE CS_INITIALIZE CS_SHUTDOWN CS_UPDATE
camera model	x		x		x	For UMC-4 workflow this metadate will be set to "UMC-4"	String
umc4 serial	x				x	The serial number of the UMC-4 device	String
umc4 software version	x				x	The UMC-4's software version	String
camera serial	x		x		x	The camera's serial	String
camera software	x		x		x	The camera's software	String
nd filter density	x		x	x	x	ND filter density (e.g 0.6	float
lens model	x		х		х	name of the lens in use	String
lens serial number	x		X		x	serial number of the lens	String
Lens scale raw encoder source			x		x	This item indicates if focus, iris, focal length values are provided by cine lens or ENG lens encoders	String
						LDS" OF "ENG"	
Motor Raw Encoder Limits	x	x	x		x	attached lens motors: motorRawEncoder LimitsFocusMin motorRawEncoder LimitsFocusMax motorRawEncoder LimitsIrisMin motorRawEncoder LimitsIrisMax motorRawEncoder LimitsIrisMax	Integer
Lens Limits Focus Imperial			x		x	Focus distance limits of the lens in imperial form	Integer > 0 value in 1/1000" -1 infinity 0 not available
Lens Limits Focus Metric			x		x	Focus distance limits of the lens in metric form	Integer > 0 value in mm -1 infinity 0 not available
Lens limits Iris			x		x	Linear iris limits of the lens	Integer ≥ 0 1/1000 of a stop with T1 = 1000 -1 -1 not available -2 closed -3 near close
Lens limits zoom			x		x	Focal length limits of the lens	lnteger > 0 value in µm 0 not available
focus distance metric	x	x	х	x	x	Lens focus distance in metric form in cm	float

Focus distance imperial	x	x	x		x	Lens focus distance in imperial form	
iris / aperture	x	x	x	x	x	presented as aperture in	float
focal length	x	x	х	x	x	focal length in mm	float
Lens squeeze			x		x	Anamorphic squeeze	float
factor			~		~	factor of the lens	nout
Entrance Pupil						center of the entrance	
Offset			х		Х	pupil of the lens and	integer
						sensor plane	
						The CoC is a perceptual parameter representing	
						the diameter in mm, at	
						which a point of light on	
						the sensor starts to	
Circle of						disc in the delivery	() (
confusion			х		x	format. The value is	float
						typically selected as a	
						acquisition format and	
						delivery format or simply	
						if more or less critical	
						lens encoder values for	
lens raw encoder	x		х		x	lenses with LDS (lens	integer
values						data system)	
motor raw encoder values	х	х	х		х	motor encoder values of the external lens motors	integer
						This item describes the	
						current raw position of	
						the lens ring as	
Lens scale raw			х		x	built into lens. Its value is	Integer ≥0 raw value
encoder values						in the range from Lens	-1 not available
						Scale Raw Encoder Min	
						Encoder Max.	
Lens converter						Focal length multipler of	
focal length	х		х		х	the converter	integer
Lens converter						Light loss factor of the	
light loss factor	X		X		X	converter	Integer
model	Х		Х		Х	converter	
Lens converter physical length	x		х		х	Physical length of the converter in µm	integer
Lens converter	х		х		х	Serial number of the lens	String
serial number						converter the shutter angle set in	
shutter angle	х		x		x	the camera in degrees	float
exposure time	х		х		х	the sensor's exposure time in milliseconds	integer
exposure index	х		х		Х	the exposure index (ASA)	integer
recording media	x		x		x	recording media in	integer
capacity						seconds	
timecode	x	x	х	x	x	Timecode in unreal format:	Unreal Engine timecode in HH:MM:SS:FF
framerate	x	x	x	x	x	the framerate of the	Unreal Engine Framerate
						dropframe flag for	
dropframe	Х	X	х	х	X	timecode	boolean
						"the framenumber,	
framenumber	x	x	х	х	x	combination with	Unreal Engine Frametime
						framerate and	
					~	dropframe"	
					~	number of recorded clips	
clip number	х		x		x	on the recording media -	integer
						> check known issues	

camera index	х	х		x	camera index, e.g "AA" or "B"	String
color temperature	x	x		x	the color temperature setting of the camera, e.g 5600	integer
tint	х	х		x	the green or magenta tint in range -16 to 16 ->	float
tilt	х	х	х	х	tilt value of UMC-4's IMU	float
roll	х	х	х	х	roll value of UMC-4's IMU	float

4.0 Troubleshooting

Contact

If you are having issues with the UMC-4, Alexa35 or the Unreal Plug-In, please contact:

mrplugins@arri.de

For convenience, please include the Output Logs from Unreal Engine.

Debugging

If you would like to monitor the metadata, you can access the verbose Logs by typing the following command in the Output Log's command line:

Log LogArri Verbose

You can now easily monitor all metadata streamed from the UMC-4, without needing to access it via Blueprints.

Make sure to set this back to normal by typing:

Log LogArri Log

This sets the log back to its default state.

5.0 Known issues

5.1 UMC Firmware update

1. When updating the UMC-4's Firmware, make sure you activate the Streaming after the update is complete and restart the UMC-4. Otherwise, it can happen, that you won't have an active ethernet stream. A reboot will solve this, when the UMC-4 comes up with streaming enabled.

5.2 Metadata

- 1. There is an issue with the "clip number" metadate. This is currently always set to 1. Please refrain from using it for take automation until this issue is fixed.
- 2. The tint value is currently not conversed correctly between camera and UMC-4 unit, making its resolution narrower. It will only contain full numbers, without the decimal point.