

ALEXA Mini LF SUP 7.0.1

Software Update Package (SUP) Mini LF 7.0.1

RELEASE NOTES

Date: July 21, 2021



Important Notes

Please read the part “F. Update Procedure” carefully and follow the steps accurately!

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A. Introduction

This document describes changes for ALEXA Mini LF cameras with the Software Update Package (SUP) Mini LF 7.0.1 in contrast to ALEXA Mini LF SUP 6.0.22. We recommend that you take your time to go through these release notes, the known issues section of this document and the user manual before you start using the camera.

Please note, that Mini LF SUP 7.0.1 is a maintenance release for Mini LF SUP 7.0. It includes an important bug fix for a bug that would make the FSND filter module inoperable on a limited number of cameras. The features of Mini LF SUP 7.0 and 7.0.1 are identical. We recommend updating to Mini LF SUP 7.0.1 for all cameras.

For more information on the camera, please visit www.arri.com/alexaminilf.

For a listing of answers to frequently asked questions please visit the frequently updated [ALEXA Mini LF FAQs](#).

ALEXA Mini LF SUP 7.0 Features and Changes Overview

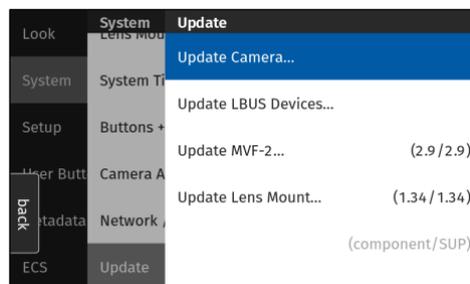
A more detailed listing can be found below in the section "C. New Features and Changes in ALEXA Mini LF SUP 7.0".

- **Expanded recording format names**
- **New Super 35 recording formats**
- **New large format recording formats**
- **Improved MAGNIFICATION monitoring icon**
- **Support for Signature Zoom Extender 1.7x**
- **Expanded list of default framelines**
- **Increased number of framelines**
- **User setup file forwards/backwards compatibility**
- **Camera Access Protocol (CAP) enhancements**
- **Improved communication with LBUS devices**
- **ECS improvements**
- **Improved logfile exporting**
- **Powerline Communication**
- **System stability improvements**

Updating Camera, Viewfinder and Lens Mount

- ALEXA Mini LF SUP 7.0 can be installed on all previously shipped ALEXA Mini LF cameras. However, we recommend updating from SUP 6.0.22 to SUP 7.0 (note: this can take up to 20 Minutes). If your camera is not running Mini LF SUP 6.0.22, please update it to 6.0.22 before updating to SUP 7.0. ALEXA Mini LF SUP 6.0.22 is still available on the ARRI website.
- We do not recommend updating in the middle of a production.
- When connected to the camera, the MVF-2 viewfinder and lens mount will also be updated automatically.

In case of using an MVF-2 or lens mount with older software with a camera with newer software, please make sure to make a component update of the MVF-2 or lens mount. The version numbers in brackets should be equal (MENU > System > Update).



- Please note that the viewfinder might switch off during the update process and does not give visual feedback of the update all the time. On the other hand, the SDI outputs will stay active (which they did not do in previous software versions). Make sure not to power off the camera during an SUP update. Make sure not to unplug the viewfinder during an SUP update. Detailed instructions for the update process can be found at the end of this document.

- Always use a 'private' or 'incognito' browser window when using the webremote to operate the camera and to perform a SUP update. This prevents possible erroneous behavior.

Updating LBUS Accessories

- The camera SUP does not contain any LBUS accessory software. LBUS accessories (like cforce mini motors, cforce Plus motors, ARRI master Grips, ARRI Operator Control OCU-1 or ARRI LCUBE) connected to the camera during a camera SUP update will therefore not be updated.
- To update LBUS accessories, download the LBUS device update file from the ARRI website, copy it onto a USB stick in the folder ARRI/ECS/, place the USB stick into the camera, connect the LBUS device to LBUS connector on the camera and then initiate the update from MENU > System > Update > Update LBUS Devices.

Downdating

While it is possible to downgrade ALEXA Mini LF cameras to previous SUP versions from this version, we strongly recommend against this, since this SUP includes important bug fixes and significantly enhances stability.

For a downgrade to a previous SUP version, both the license file of the installed and of the previous version (always included in the SUP zip file and named: 'mini_lf_fw_update_aes_X.X.X.lic') need to be available on the USB memory stick under /ARRI/A-MINI-LF/LICENSES.

Codex Compact Drive 1TB Update

A firmware patch is now available to address a firmware error with Codex Compact Drives with the serial number range from 10020001 to 10022568. Drives outside this serial number range already run the latest firmware and require no update. On rare occasions, this firmware error could cause a Compact Drive to take a long time to load in the camera, Dock or Reader, not load at all or result in the camera status "INVALID". For all ALEXA Mini LF owners we recommend updating their Compact Drives to this new firmware. To have the update installed free of charge, affected drives can be sent to any [Codex](#) or [ARRI Service station](#).

Please note that Mini LF SUP 7.0 will not update Compact Drives. ALEXA Mini LF cameras running SUP 7.0 are compatible with Compact Drives with and without the update. More information can be found on the ARRI Website [here](#).

Software Compatibility Notes

To properly process files recorded with ALEXA Mini LF cameras with SUP 7.0 or later installed, please update the ARRIRAW Converter (ARC) and the ARRI Meta Extract (AME) to the latest release version. The latest release version of the ARC is 4.4, the latest release version of the AME is 4.4.

Please note, that macOS X version 10.14.4 or later is required to successfully transfer data from a Codex Compact Drive with the Codex USB-C Compact Drive Reader, or the SXR Capture Drive Dock with the Compact Drive Adapter. Using older versions of macOS will result in a copy error for files larger than 9.66 GB.

Please note that macOS X version 10.15 with the Apple MXF plug-in installed (part of "Pro Video Formats 2.1") is required to play back downloaded MXF/Apple ProRes footage in Apple QuickTime Player.

A document providing an overview of postproduction tools that support files recorded with ALEXA Mini LF cameras ("ALEXA Mini LF Supporting Tools & Software Overview.pdf") can be found in the download section of the ALEXA Mini LF webpage.

Please make sure to use the latest version of any 3rd party tool for your workflow.

Sample footage shot with the ALEXA Mini LF camera can be downloaded [here](#).

Registration

If you have not done so already, please make sure you register your camera using our online customer registration. Your registration ensures that you receive information about future software updates as soon as they are available. If you register your new camera within 1 month of purchase, you will get a 12-month extended warranty for free. You can find the registration [here](#).

B. Legal

Important Notes on Audience and Intended Use

The product is solely and exclusively available for commercial customers and shall be used by skilled personnel only. Every user should be trained according to ARRI guidelines. Use the product only for the purpose described in this document. Always follow the valid instructions and system requirements for all equipment involved.

Important Notes on Vital Precautions

High voltage! Risk of electric shock and fire!

Short-circuits may entail lethal damage!

Before use, read and follow all valid instructions.

Use solely and exclusively as described in the instructions.

Never open. Never insert objects.

For operation, always use a power source as indicated in the instructions.

Always unplug the power cable by gripping the power plug, not the cable.

Never try to repair. All repair work should be done by a qualified ARRI Service Center.

Never remove or deactivate any safety equipment (incl. warning stickers or paint-marked screws).

Always protect from moisture, cold, heat, dirt, vibration, shock, or aggressive substances.

Never cover any fan openings.

Heavy weight! Risk of injury and damage!

If placed on an unstable surface, the camera can fall and cause serious harm!

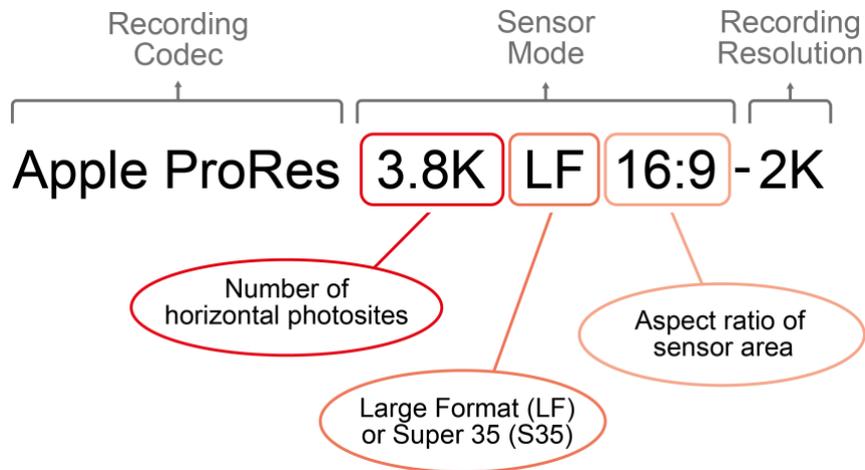
Always place the camera on proper support devices. Safely attach it as described in the instructions.

For further important safety information, please refer to the user manual.

C. New Features and Changes in ALEXA Mini LF SUP 7.0

Expanded Recording Format Names

In order to distinguish between the different recording formats without ambiguity, we have expanded the recording format names.



- The **Recording Codec** defines the image content encoding. The options are ARRIRAW or Apple ProRes.
- **Sensor Mode** defines the size of the area on the sensor that is read out. This influences the maximum possible frame rate, the data rate and what lenses can be used, as some lenses may not cover a large sensor area. The Sensor Mode part of the name is further divided into three parts:
 - First is the number of horizontal photosites used on the sensor in “K”.
 - Second is Large Format “LF” or Super 35 “S35”, provided so a quick choice can be made without memorizing resolution numbers. “LF” in this context is any sensor mode with an area larger than the ALEXA Mini sensor in Open Gate, and “S35” is any sensor mode with an area equal to or smaller than the ALEXA Mini sensor in Open Gate.
 - Third is the aspect ratio of the sensor area that is being read out.
- **Recording Resolution** shows the horizontal resolution of the file that is being recorded in-camera. Sometimes, as in “ARRIRAW 3.4K S35 3:2 - 3.4K”, the number of photosites read from the sensor and the number of pixels recorded into the file are the same (here 3.4K); no in-camera processing has been applied. In other cases, as for instance in “Apple ProRes 3.8K LF 16:9 - 2K” the number of photosites read out from the sensor is larger than the number of pixels recorded into the file. In this case, the in-camera processing has downsampled the 3.8K image from the sensor to a 2K image to reduce the data rate. The aspect ratio of the recorded file remains the same as that of the sensor mode and is therefore not noted again.

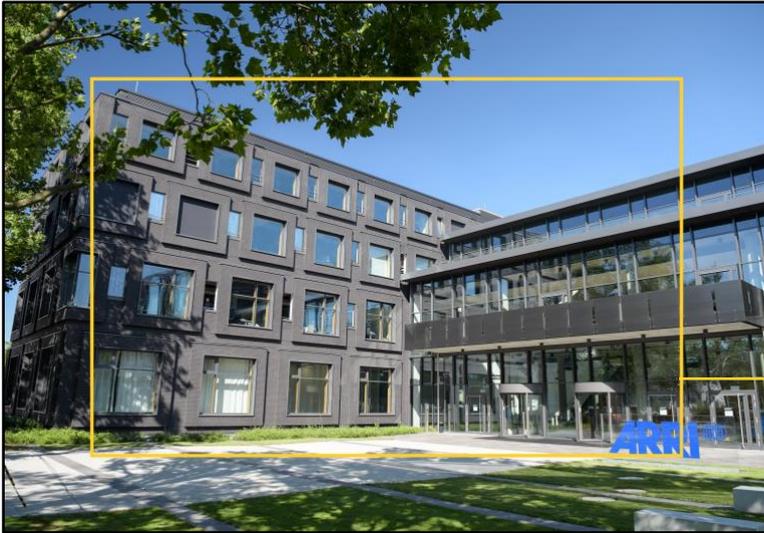
Super 35 Recording Formats

These Super 35 (S35) recording formats allow the use of an ALEXA Mini LF instead of or alongside an ALEXA Mini with identical recording formats. The same workflow can then be used for Mini LF and Mini (except that Apple ProRes has an .mxf container on Mini LF and a .mov container on Mini). If all you need is the S35 sensor area, these new formats also provide a lower data rate than the LF formats. Please note that these S35 recording formats, like their equivalents in the ALEXA Mini, are not Netflix 4K approved.

1. MXF/ARRIRAW 3.4K S35 3:2 - 3.4K

Sensor photo-sites used: 3424 x 2202, recorded file resolution: 3424 x 2202

This format is great for shooting with many S35 lenses. This is the most flexible format for S35 projects and used by many feature films, drama series and commercials. The maximum frame rate of this Mini LF recording format (60 fps) is twice that of the same recording format on the ALEXA Mini (30 fps).



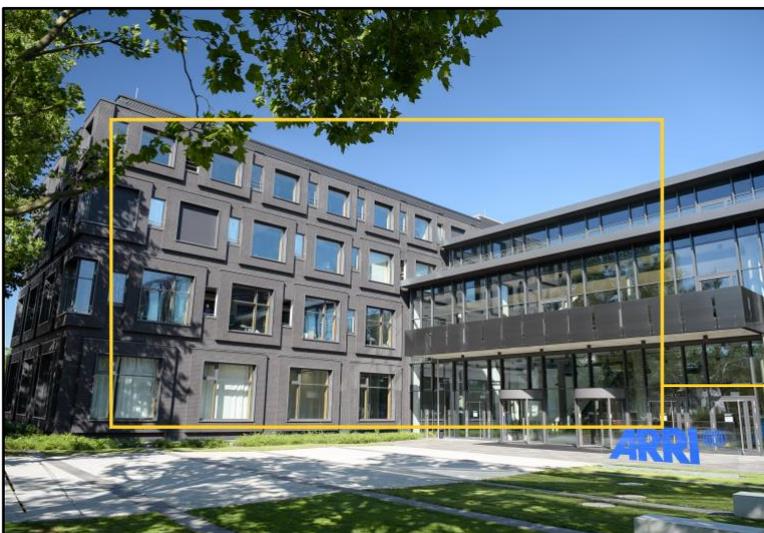
ALEXA Mini LF Sensor
4448 x 3096 photosites

3.4K S35 3:2 - 3.4K recording format
3424 x 2202 photosites

2. MXF/Apple ProRes 3.2K S35 16:9 - 3.2K

Sensor photo-sites used: 3200 x 1800, recorded file resolution: 3200 x 1800

Very popular for drama series and commercials without a 4K sensor resolution mandate, this format is ideal for shooting with most spherical S35 lenses for a 16:9 target deliverable. Using fewer photosites than S35 Open Gate reduces the data rate by 76%. Various post workflows are possible: for instance, if cropping to an HD image, this format provides ample extra resolution for resizing, repositioning, rotating, stabilizing, or tracking in post. Alternatively, up-sampling to UHD in post is easy and delivers great results. The maximum frame rate of this Mini LF recording format (75 fps) is higher than the same recording format on the ALEXA Mini (60 fps).



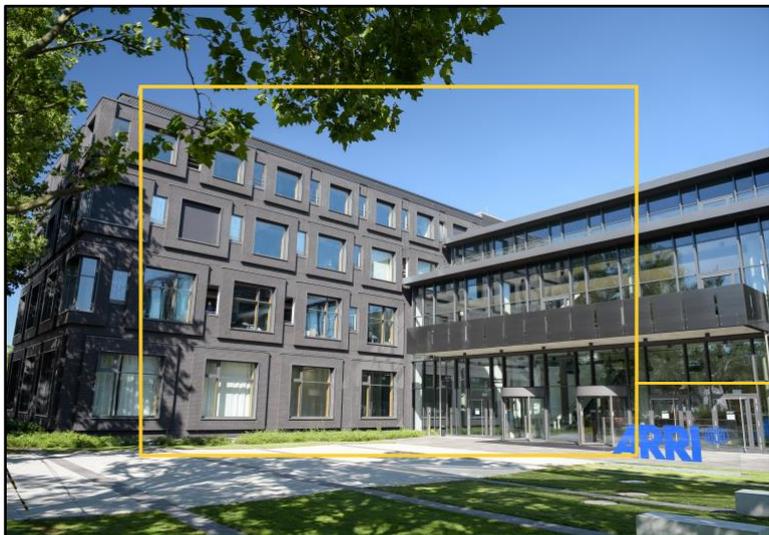
ALEXA Mini LF Sensor
4448 x 3096 photosites

3.2K S35 16:9 – 3.2K recording format
3200 x 1800 photosites

3. MXF/Apple ProRes 2.8K S35 4:3 - 2.8K

Sensor photo-sites used: 2880 x 2160, recorded file resolution: 2880 x 2160

This format is designed for shooting with anamorphic S35 2x lenses for a target deliverable of 2.39:1 or for shooting with spherical S35 lenses for a target deliverable of 1.85:1 with extra room above and below the image. This is a popular format for the S35 ALEXA cameras, and was chosen to be included in Mini LF SUP 7.0 instead of the S35 6:5 as it provides a lot more flexibility for only a slightly increased data rate. The maximum frame rate of this Mini LF recording format (75 fps) is higher than the same recording format on the ALEXA Mini (50 fps). Please note that the recorded file container (border of black pixels around the image) differs in this format in size from the equivalent ALEXA Mini format.



ALEXA Mini LF Sensor
4448 x 3096 photosites

2.8K S35 4:3 – 2.8K
2880 x 2160 photosites

4. MXF/Apple ProRes 2.8K S35 16:9 - HD

Sensor photo-sites used: 2880 x 1620, recorded file resolution: 1920 x 1080 (downsampled)

This was the first recording format ever released with the ALEXA Classic EV in 2010. It allows for shooting with any spherical S35 lens (they all cover the sensor area of 2880 x 1620), with a target deliverable of 16:9 HD (1920 x 1080). This is your format of choice if you want the quickest way to an HD deliverable with a super low data rate and the assurance that the sensor area is covered by any S35 lens. The maximum frame rate of this Mini LF recording format (100 fps) is lower than that of the same recording format on the ALEXA Mini (200 fps).



ALEXA Mini LF Sensor
4448 x 3096 photosites

2.8K S35 16:9 – HD
2880 x 1620 photosites

New Large Format Recording Formats

The new large format (LF) recording formats are designed to combine the advantages of the large format look (by using almost the full width of the large format sensor) with a budget-friendly lower data rate (the image is downsampled in-camera to UHD or HD).

Note 1: An LF 2:1 4K Cine format was not included since it is so close to LF Open Gate that you may as well shoot LF Open Gate and crop. An LF 2:1 UHD format was also omitted since it is so close to LF 16:9 that you may as well shoot LF 16:9 and crop.

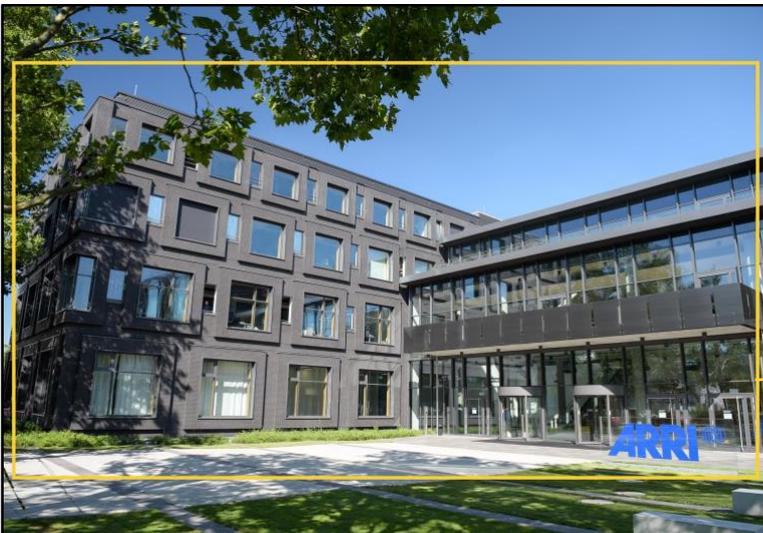
Note 2: MXF/Apple ProRes 4.3K LF 16:9 - UHD is officially approved by Netflix. MXF/Apple ProRes 4.3K LF 16:9 - HD is not approved by Netflix since it does not fulfill the Netflix 4K mandate.

Note 3: These formats are slightly less wide than the full sensor width because that results in a better downsampling factor for downsampling to UHD or HD, which results in better image quality in contrast to using the full sensor width.

1. MXF/Apple ProRes 4.3K LF 16:9 - UHD

Sensor area: 4320 x 2430, recorded file: 3840 x 2160 (downsampled)

By using almost the entire width of the LF sensor, this format delivers the unique large format aesthetic. At the same time, in-camera downsampling to UHD reduces the data rate and avoids cropping and resizing in postproduction when your target deliverable is 16:9 UHD.



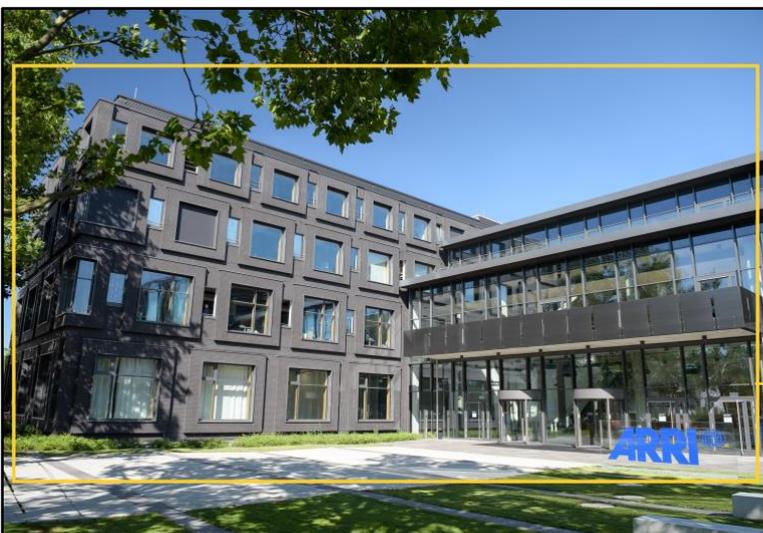
ALEXA Mini LF Sensor
4448 x 3096 photosites

4.3K LF 16:9 - UHD
4320 x 2430 photosites

2. MXF/Apple ProRes 4.3K LF 16:9 - HD

Sensor photo-sites used: 4320 x 2430, recorded file resolution: 1920 x 1080 (downsampled)

By using almost the entire width of the LF sensor, this format delivers the unique large format aesthetic. At the same time, in-camera downsampling to HD dramatically reduces the data rate and avoids cropping and resizing in postproduction when your target deliverable is 16:9 HD. Please note, that MIRROR V+H is not available in this recording format.



ALEXA Mini LF Sensor
4448 x 3096 photosites

4.3K LF 16:9 - HD
4320 x 2430 photosites

Overview Table of ALEXA Mini LF Recording Formats

Please note that for “ARRIRAW 3.4K S35 3:2 - 3.4K” the maximum frame rate is twice that of the equivalent recording format of the ALEXA Mini. “Apple ProRes 3.2K S35 16:9 - 3.2K” and “Apple ProRes 2.8K S35 4:3 - 2.8K” also have a higher maximum frame rate than the equivalent ALEXA Mini formats. “Apple ProRes 2.8K S35 16:9 - HD” has half the maximum frame rate of the equivalent ALEXA Mini recording format, but 100 fps is a very useful maximum frame rate for slow motion.

Please also see the Appendix “Overview Table of Recording Formats for ALEXA Mini LF, ALEXA Mini & ALEXA LF”

Please also see the [Formats & Data Rate Calculator](#) on our website for more information.

Codec	ALEXA Mini LF Mini LF SUP 7.0								
	Recording Format	Max. fps (1)	Compact Drive 1TB (h:m) @ 24 fps (2)	Sensor Photosites		Recorded Image Pixels		Sensor Active Image Area	
				h	v	h	v	h	v
ARRIRAW (3)	4.5K LF 3:2 Open Gate - 4.5K	40	0:32	4448	3096	4448	3096	36.70	25.54
	3.8K LF 16:9 - UHD	60	0:54	3840	2160	3840	2160	31.68	17.82
	4.5K LF 2.39:1 - 4.5K	60	0:54	4448	1856	4448	1856	36.70	15.31
	3.4K S35 3:2 - 3.4K	60	0:59	3424	2202	3424	2202	28.25	18.17
Apple ProRes (4)	4.5K LF 3:2 Open Gate - 4.5K	40	1:13	4448	3096	4448	3096	36.70	25.54
	4.3K LF 16:9 - UHD	48	2:01	4320	2430	3840	2160	35.64	20.05
	4.3K LF 16:9 - HD	75	7:57	4320	2430	1920	1080	35.64	20.05
	3.8K LF 16:9 - UHD	60	2:01	3840	2160	3840	2160	31.68	17.82
	3.8K LF 16:9 - 2K	90	7:00	3840	2160	2048	1152	31.68	17.82
	3.8K LF 16:9 - HD	90	7:57	3840	2160	1920	1080	31.68	17.82
	4.5K LF 2.39:1 - 4.5K	60	2:01	4448	1856	4448	1856	36.70	15.31
	3.2K S35 16:9 - 3.2K	75	2:35	3200	1800	3200	1800	26.40	14.85
	2.8K S35 4:3 - 2.8K	75	2:24	2880	2160	2880	2160	23.76	17.82
2.8K S35 16:9 - HD	100	7:57	2880	1620	1920	1080	23.76	13.37	

(1) = All Apple ProRes flavors have the same maximum frame rate on ALEXA Mini LF

(2) = Record Duration for Apple ProRes stated for Apple ProRes 4444

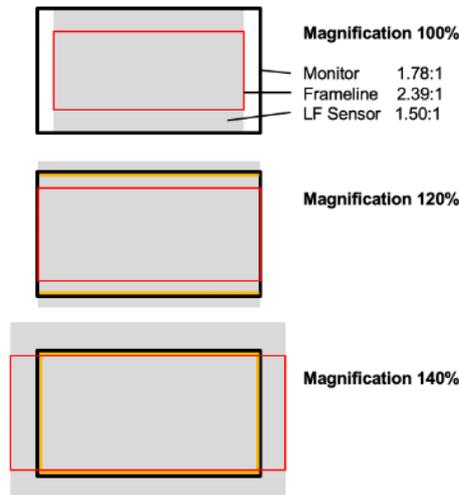
(3) = The file format for ARRIRAW is: .mxf for ALEXA Mini LF and ALEXA Mini, .ari for ALEXA LF

(4) = The file format for Apple ProRes is: .mxf for ALEXA Mini LF, .mov for ALEXA LF and ALEXA Mini

yellow background = new format in Mini LF SUP 7.0

Improved MAGNIFICATION Monitoring Icon

With Software Update Packages prior to ALEXA Mini LF SUP 7.0, when the MAGNIFICATION feature was used and less than the recorded area was shown on the EVF or on the SDI image, an orange line was shown at the frame boundaries of the monitoring image, as shown in the graphic below.



While MAGNIFICATION itself is a useful and popular feature, the orange line could get distracting when shooting in low light levels. From ALEXA Mini LF SUP 7.0 on, if less than the recorded area is shown on the EVF image, SDI image or flip-out monitor image, the orange line will not be shown any longer. Instead, new icons will be shown in the status area to the left of the image and in the status icon tab in the flip-out monitor status bar below the image. For more details about status information and status overlays, please refer to Chapter 18 in the ALEXA Mini LF User Manual.

	Indicates that the recorded image content horizontally (left and right) extends beyond what is visible on the output.
	Indicates that the recorded image content vertically (above and below) extends beyond what is visible on the output.
	Indicates that the recorded image content horizontally and vertically extends beyond what is visible on the output.



Support for Signature Zoom Extender 1.7x

ALEXA Mini LF SUP 7.0 includes support for the Signature Zoom Extender 1.7x. When using the extender, the focus distance, iris value and focal length are calculated and displayed in brackets.

System	Info	Lens Info
Setup	Media Info	Serial No. 04
User Butt	USB Info	Extender SZE 1.7x
Metadata	Network I	Focal Length [5 10.0mm]
S	Lens Info	Focus [2.34 m]
Info	User Butt	Iris [T 4.0 6/10]



Increased Number of Framelines

The ALEXA Mini LF with SUP 7.0 can now contain up to 256 framelines in total (previously: 100).

Expanded List of Default Framelines

The ALEXA Mini LF can contain up to 100 framelines in the menu for each recording resolution. For the Open Gate recording resolutions (4.5K LF 3:2 Open Gate – 4.5K and 3.4K S35 3:2 – 3.4K) the list of default framelines has been expanded so framelines for a combination of the most commonly used target aspect ratios (1.33:1, 1,78:1, 1.85:1, 2.00:1, 2.39:1) and the most commonly used lens squeeze factors (1.25x, 1.3x, 1.5x, 1.65x, 1.8x and 2x) can be quickly set. Recording resolutions that are specifically designed for spherical lenses provide default framelines for the most commonly used target aspect ratios (1.33:1, 1,78:1, 1.85:1, 2.00:1, 2.39:1). Custom framelines can, of course, always be generated with the online [Frame Line and Lens Illumination](#) Tool.

User Setup Files Compatibility

The ALEXA Mini LF with SUP 7.0 can now also accept user setup files created on previous ALEXA Mini LF SUP versions. Previously, it was only possible to load user setup files created with the same camera SUP.

Camera Access Protocol (CAP) Enhancements

The Camera Access Protocol is a list of commands an external device can use to communicate with the camera. A number of new CAP commands have been added. For more information about CAP please contact digitalworkflow@arri.de

- CAP can read and adjust audio gains of audio channels 1+2
- CAP can control sharpness
- CAP can add and remove framelines
- CAP can read reel and clip number of the camera
- CAP can add and remove values from lists (Fps, Shutter Angle, Exposure Time, White Balance)
- CAP can delete look files
- CAP can upload and download setup files

Improved communication with LBUS devices

The camera sends a "capability" request to a newly connected LBUS device and then treats the device according to the information received.

ECS improvements

The speed with which the Wireless Compact Unit WCU-4 overrides the Operator Control Unit OCU-1 has been greatly improved.

Improved logfile exporting

When using the command MENU > Info > Export logfiles, the camera now combines the camera logfiles, HW Info File, User Setup File and other diagnostic files into a zip archive (example name: 'logs_A-MINI-LF_30120_210114_1119.zip') and stores the archive in the LOGFILES folder on the USB medium. Sensitive data such as WiFi passwords and look files will not be exported in the zip archive. The HW Info File and User Setup Files can still be exported individually to the USB medium.

Powerline Communication

With Mini LF SUP 6.0.22 we added a basic powerline communication ability to the Mini LF, and an extended version is in the Mini LF SUP 7.0. Powerline communication will allow power sources connected to the power input (BAT) of the camera in the future to communicate with the camera without additional data cables.

System Stability Improvements

A number of changes have been made to the internal communications that further improve system stability and should significantly reduce the occurrence of error messages #4, #5, #14, #93, #138 or #200. If you still encounter any of these errors with a camera running Mini LF SUP 7.0, you most likely have a hardware issue. In that case, please [contact ARRI Service](#), as we have seen some limited cases where these errors were based on hardware. ARRI Service will be able to diagnose and repair affected cameras.

D. Known Issues – Mechanical Accessories

RAB-1 Clamp 2 may experience poor clamping performance

Some early RAB-1 Clamp 2 units (K2.0023406) ran into assembly issues leading to poor clamping performance or the inability to release adequately. If a RAB-1 Clamp 2 is found to slip on the Rear Accessory Bracket RAB-1 (K2.0013937) or not to release correctly, please contact ARRI Service to get the part repaired or exchanged.

Compact Bridge Plate CBP-1 and CBP-2 lever malfunction

To release the Compact Bridge Plate CBP-1 or CBP-2 from a balance plate, the safety catch on the main locking lever of the CBP must be released for the main locking lever to be moved from the BALANCE to the RELEASE position. Some early CBP-1 and CBP-2 units could have the main locking lever moved directly from the LOCK position to the RELEASE position. In that case, please contact ARRI Service to get the part repaired or exchanged.

E. Known Issues – Software

Lenses

No UDM overlay with some EF Mount lenses

UDM value is not shown in the SDI overlay and EVF overlay although activated (MENU > MONITORING > SDI > SDI PROCESSING > OVERLAYS > STATUS COMPONENTS > LENS DATA > UDM or MENU > MONITORING > EVF/MONITOR > EVF OVERLAYS > STATUS COMPONENTS > UDM) when EF Mount lenses that provide lens data are used while Lens Mount is enabled. Possible workaround: create and use a LDA Table. In case you are experiencing this problem, please inform us and let us know which lens is in use.

ALURA 1.4x and 2.0x Extender are not recognized

ALURA 1.4x and 2.0x Extender are not recognized by the camera and therefore the lens information shown in the menu, the SDI overlays and the WCU-4 show the information of the lens without taking into account the use of the extenders.

Focus pulling with EF mount photo lenses not smooth

Some EF mount photo lenses when used with the EF Mount (LBUS) software 1.10 (which is part of Mini LF SUP 7.0) will not focus as smoothly as with the previous EF Mount (LBUS) software (1.5, which was part of Mini LF SUP 6.0.22). As a workaround we recommend to update the camera to Mini LF SUP 7.0 with the EF Mount (LBUS) not attached to the camera. That way the EF Mount (LBUS) lens mount software will not be updated. From then on, the camera will occasionally prompt a message that the lens mount software is outdated ('Software of lens mount is outdated, please update at MENU > System > Update.'). Please ignore this message. In case you have installed a beta version of ALEXA Mini LF SUP 7.0, please downgrade the camera to SUP 6.0.22 with the mount attached, then update to the release version of SUP 7.0 without the mount attached.

Monitoring

MVF-2 can show subtle flickering in upper part

Sometimes a subtle flickering can be observed in the upper part of the image of the MVF-2 viewfinder (through the eyepiece, not the flip-out monitor).

MVF-2 shows orange MAGNIFICATION border during playback

Sometimes during playback, the MVF-2 flip-out monitor shows orange MAGNIFICATION borders even though it should not.

MVF-2 shows ARRI logo continuously

Sometimes, especially directly after a software update, the MVF-2 may display the ARRI Logo for an extended time. In this case unplug and replug the viewfinder. If this does not solve the issue, please check the software version of the MVF-2 viewfinder in MENU > System > Update.

Brightness flicker when EVF Zoom is activated or EVF Surround view is off

Brightness flicker in the upper part of the OLED display can be noticed.

MVF-2 flip-out monitor shows vertical stripe

Sometimes the MVF-2 flip-out monitor shows a vertical stripe on the left side of the image which is part of the image from the right. This can be fixed by unplugging and replugging the VF cable.

Post

No Mirror image function for MXF/Apple ProRes in DaVinci Resolve

The vertical "Mirror image" function does not work for MXF/Apple ProRes in DaVinci Resolve. However, it will work with ARRIRAW.

Recording

Activating SDI ZOOM at fps setting over 70 fps in 2.8K S35 4:3 - 2.8K results in image artifacts

Under the following conditions, clearly visible image artifacts will occur on all monitor outputs and in the recorded material:

- Recording format: 2.8K S35 4:3 - 2.8K
- FPS \geq 70
- SDI Zoom (via User Button or CAP, not MVF-2 Zoom)

Remote Control

WiFi still on when camera is in host mode

When the camera is in WiFi host mode (MENU > System > Network/WiFi > WiFi Mode > Host), a client is connected and WiFi Power is turned off, WiFi Power stays on.

Webremote reconnect takes long after switching WiFi power OFF and back ON.

Sometimes the reconnect of the Webremote takes unexpectedly long after switching WiFi power OFF and back ON.

Web remote function not working properly after SUP update

After updating the camera, the web remote function may not work properly unless the browser cache of your web browser has been cleared.

SmallHD Cine 7 partial functionality

When remote controlling the camera with a SmallHD Cine 7, not all features will work as expected.

Sync

SDI out of sync

If two cameras are being synchronized by syncing one of them to timecode, the recorded images will be in sync, but the SDI outputs will be slightly out of sync.

Warning message unavailable

A camera in setting Slave mode inherits all settings from the master camera. When attempting to change settings on a camera in settings Slave mode not all items prompt the warning that these settings can only be changed on the master camera, but instead are not modifiable.

Disabling EXT Sync leads to error message

When disabling EXT Sync the camera can display a software error (#4) and prompt the user to reboot. After rebooting the camera will resume working as expected.

Usability

Cannot overwrite existing User Pixel Mask

Saving a User Pixel Mask on the USB stick is only possible when the sensor folder on the USB stick does not already contain a User Pixel Mask. If you want to save a User Pixel Mask, make sure the folder is empty or re-name any existing User Pixel Masks. Even then, sometimes a new User Pixel Mask cannot be saved and the monitor gets stuck with the message 'Exporting user pixel mask, please wait...'. Restarting fixes all of this.

Menu item selection highlight scrolls past bottom of menu

In some menus the menu item selection highlight can be scrolled past the bottom of the menu.

Audio icon deactivated in playback of clip with audio

When RECORDING settings do not allow to record audio, the audio icon is shown deactivated erroneously in playback of a clip that contains audio.

Updating

ALEXA Mini LF SUP 7.0 camera update might fail

In a few cases the camera update to SUP 7.0 may fail with the message 'Last SUP installation was incomplete. Please re-install SUP. (#135)'.

F. Update Procedure

Where to download the new Software Update Package (SUP)

You can find the Software Update Package in the [Software Update Packages download section](#). A SUP can be installed on the camera by using a USB stick as described in detail below.

Camera Update Procedure

The ALEXA Mini LF software is updated from a USB memory stick. The SUP will update the ALEXA Mini LF camera along with the Viewfinder (MVF-2) and the lens mount – provided they are connected to the camera.

The update can be started through the menu of the MVF-2 viewfinder or through the Web Remote. The Web Remote requires a connection to the camera via WiFi or Ethernet (with ALEXA Ethernet/RJ-45 Cable KC-153-S, K2.72021.0). Open a web browser and enter the URL: <http://mini-LF-xxxxx.local> (replace xxxxx with your camera's 5-digit serial number). For further information on the Web Remote, please refer to the User Manual.

- After the download, please double click the downloaded file (*.zip) to unpack it or unpack it manually. This will place two update files (*.SUP and *.lic) onto your computer.
- If not done beforehand, prepare the USB memory stick for use with ALEXA Mini LF by connecting it to the camera. Then choose *Menu > Media > Prepare USB Medium...* in the camera's menu on the MVF-2 flip-out monitor and press CONFIRM. This will create the required folder structure on the USB stick.
- Connect the USB stick to your computer and place the downloaded *.SUP file in the folder ARRI/A-MINI-LF/SUP on the USB stick. Then place the downloaded *.lic file in the folder ARRI/A-MINI-LF/LICENSES on the USB stick.
- SUPs contain not only updates for the camera body but also for the MVF-2 viewfinder and the LPL lens mount. Therefore, the MVF-2 viewfinder and the LPL lens mount should be attached to the camera when performing an update.
- Make sure the camera is connected to a power supply (best) or is powered with a full battery to avoid power loss during the update process.
- Perform a factory reset on the camera with the menu item *Menu > Setup > Factory Reset...*
- **NOTICE:** Remove the recording media from camera!
- Connect the USB stick to the camera and navigate to the menu item *Menu > System > Update > Update Camera...*
- Select the SUP file from the list and click the item.
- In the following message, press INSTALL to start the installation.
- Press CONFIRM to start the installation.
- The camera will present a screen presenting the update progress. Please do not shutdown the camera or unplug power until the camera reboots.
- After the update process has finished, a success message is displayed. Please note, that the update can take up to 20 minutes.
- Please repeat the last six steps (marked in purple) and update the camera for a second time.
- It may happen that the Viewfinder goes black during the update and does not provide any further information. In this case do NOT cut off power but check SDI 1 for a red ERROR icon or connect via Web Remote. If you get a "fail", re-run the update.
- Make sure you set the correct time zone in *Menu > System > System Time & Date*.
- If the MVF-2 viewfinder or LPL lens mount were not connected to the camera during the update process, the camera will still store the new software for those devices. The next time those devices are connected and have an older software than the one stored in the camera, the camera will offer to update those devices.

Appendix A: Overview Table of Recording Formats for Mini LF, Mini & ALEXA LF

Codec	ALEXA Mini LF Mini LF SUP 7.0										ALEXA Mini Mini SUP 6.1						ALEXA LF LF SUP 4.3					
	Recording Format	Max. fps (1)	Compact Drive 1TB (h:m) @ 24 fps (2)	Sensor Photosites		Recorded Image Pixels		Sensor Active Image Area		Recording Format	Max. fps	Sensor Photosites		Recorded Image Pixels		Recording Format	Max. fps (3)	Sensor Photosites		Recorded Image Pixels		
				h	v	h	v	h	v			h	v	h	v			h	v	h	v	h
ARRIRAW (4)	4.5K LF 3:2 Open Gate - 4.5K	40	0:32	4448	3096	4448	3096	36.70	25.54						LF Open Gate 4.5K	90	4448	3096	4448	3096		
	3.8K LF 16:9 - UHD	60	0:54	3840	2160	3840	2160	31.68	17.82					LF 16:9 UHD	90	3840	2160	3840	2160			
	4.5K LF 2.39:1 - 4.5K	60	0:54	4448	1856	4448	1856	36.70	15.31					LF 2.39:1 4.5K	150	4448	1856	4448	1856			
	3.4K S35 3:2 - 3.4K	60	0:59	3424	2202	3424	2202	28.25	18.17	Open Gate 3.4K	30	3424	2202	3424	2202							
Apple ProRes (5)	4.5K LF 3:2 Open Gate - 4.5K	40	1:13	4448	3096	4448	3096	36.70	25.54					LF Open Gate 4.5K	60	4448	3096	4448	3096			
	4.3K LF 16:9 - UHD	48	2:01	4320	2430	3840	2160	35.64	20.05					LF 16:9 UHD	60	3840	2160	3840	2160			
	4.3K LF 16:9 - HD	75	7:57	4320	2430	1920	1080	35.64	20.05					LF 16:9 2K	60	3840	2160	2048	1152			
	3.8K LF 16:9 - UHD	60	2:01	3840	2160	3840	2160	31.68	17.82					LF 16:9 HD	60	3840	2160	1920	1080			
	3.8K LF 16:9 - 2K	90	7:00	3840	2160	2048	1152	31.68	17.82					LF 2.39:1 4.5K	100	4448	1856	4448	1856			
	3.8K LF 16:9 - HD	90	7:57	3840	2160	1920	1080	31.68	17.82													
	4.5K LF 2.39:1 - 4.5K	60	2:01	4448	1856	4448	1856	36.70	15.31	16:9 3.2K	60	3200	1800	3200	1800							
	3.2K S35 16:9 - 3.2K	75	2:35	3200	1800	3200	1800	26.40	14.85	4:3 2.8K	50	2880	2160	2880	2160							
2.8K S35 4:3 - 2.8K	75	2:24	2880	2160	2880	2160	23.76	17.82	16:9 HD	200	2880	1620	1920	1080								
2.8K S35 16:9 - HD	100	7:57	2880	1620	1920	1080	23.76	13.37														

(1) = All Apple ProRes flavors have the same maximum frame rate on ALEXA Mini LF

(2) = Record Duration for Apple ProRes stated for Apple ProRes 4444

(3) = This holds for all Apple ProRes flavors except LF Open Gate ProRes 4444 XQ (40 fps) and LF 2.39:1 ProRes 4444 XQ (60 fps)

(4) = The file format for ARRIRAW is: .mxf for ALEXA Mini LF and ALEXA Mini. .ari for ALEXA LF

(5) = The file format for Apple ProRes is: .mxf for ALEXA Mini LF, .mov for ALEXA LF and ALEXA Mini

purple characters = same in ALEXA Mini LF and ALEXA LF

blue characters = same in ALEXA Mini LF and ALEXA Mini

yellow background = new format in Mini LF SUP 7.0