

Super-lightweight carbon body,
offering new creative possibilities



ALEXA Mini

Accessories

Technical Specifications

Downloads



(<http://www.arri.com>)

Complementing the ALEXA range

Compact, lightweight and self-contained, the ARRI ALEXA Mini is a versatile additional tool in the ALEXA camera range. Crews will find that the ALEXA Mini perfectly complements their ALEXA shooting kit, eliminating the complications of working with third-party cameras for specialized shots and keeping everything within a single system that is trusted all over the world.



ALEXA Mini



ALEXA SXT Plus

Strength and agility through state-of-the-art materials

To maintain ARRI's famously rugged build quality in a small and lightweight camera, a number of unique design solutions have been incorporated. These include highly integrated and sealed electronics, a lightweight carbon housing and a solid titanium PL mount that connects directly with the new internal sensor mount – also made of titanium – to ensure a super-stable flange focal distance, even when using large lenses. Nimble in use and hardy on set, the ALEXA Mini is a go-anywhere tool that is easy to transport in backpack or on luggage.

Lightweight carbon housing

Highly integrated and sealed electronics

Solid titanium PL mount

Super-stable titanium sensor mount



ARRI  (<http://www.arri.com>)

Versatile mounting and shooting options

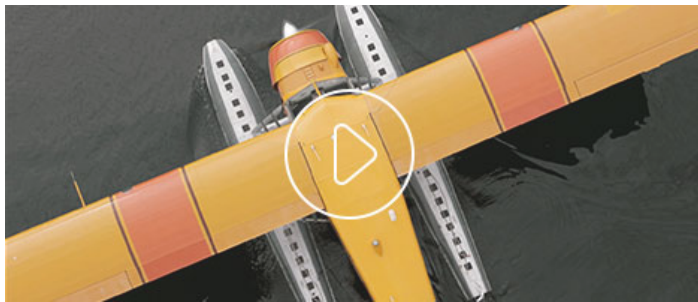
The ALEXA Mini can be operated in a number of ways: by wireless remote control, as a normal camera with the ARRI MVF-1 multi viewfinder attached, or with an on-board monitor and controlled via the user button interface on the camera body. Light enough to be



<http://www.arri.com>

Uncompromised image quality for specialized shots

The overwhelming advantage of the ALEXA Mini is that it marries such a compact and lightweight form factor with the same unparalleled image quality that has made the ARRI ALEXA system a gold standard for the industry. Combine the Mini with any other ALEXA camera and you will have perfectly matched images, even on anamorphic productions – thanks to the 4:3 sensor and automatic de-squeeze function. Workflows will also be identical, with options to record ProRes or uncompressed ARRIRAW either in-camera to CFast 2.0 cards or to a specially-designed external Codex recorder.



THE JOURNEY - captured with the ALEXA Mini
Directed by [MINDCASTLE \(http://www.mindcastle.tv/\)](http://www.mindcastle.tv/)



Behind the Scenes - ALEXA Mini with MōVI M15
and CineStar 8 multirotor from [FREEFLY SYSTEMS \(http://freelystystems.com/\)](http://freelystystems.com/)

Save time on set

With the ALEXA Mini, no extra time need be spent on set configuring third-party cameras previously required for specialized shots, or on wrangling the image files coming out of them. Multi-camera setups such as 360° plate shots will be made simpler and faster by the external Codex recorder, which can record image streams from up to four ALEXA Minis simultaneously. The camera's maximum frame rate of 200 fps means it can also be used for stunning slow-motion cinematography, saving further time and money on set by doing away with the need for a separate high-speed camera.

Save time in post

In the past, productions combining small cameras from other manufacturers with an ARRI ALEXA shooting kit have encountered time-consuming difficulties in the grade, trying to match images from those cameras to ALEXA's famously natural colorimetry and pleasing skin tones. With the ALEXA Mini these difficulties are eliminated because all images come from the same sensor and share the same color space. The ability to use CDLs and 3D LUTs in-camera for on-set color management will also reduce time and money spent in post.



In-camera recording to
CFast 2.0 memory cards

ProRes
up to 200 fps

Uncompressed ARRIRAW
up to 30 fps

4:3 sensor for
anamorphic productions

Exchangeable
PL, B4 and EF lens mounts

Cost-efficient
in-camera grading

Integrated lens motor control and ND filters,

perfect for gimbals and multicopters



The ALEXA Mini's camera body has been designed with new-generation brushless gimbals, multicopters and other specialized rigs in mind. It is compact enough in the lens direction to allow the use of standard PL mount lenses even on lightweight and space-constrained rigs, such as gyro-stabilized aerial systems. The camera's superb low-light performance makes it perfect for underwater work, and dedicated underwater housings are currently being developed by leading manufacturers.



Greater efficiency through integrated functions

An integrated lens motor controller allows new active lens motors to be connected directly to the titanium PL mount, so focus, iris and zoom settings can be controlled from ARRI hand units without an additional external box. Further operational settings can be made remotely when working with the ARRI WCU-4 hand unit.

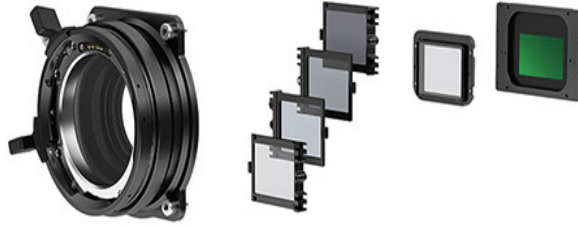


ARRI ALEXA Mini with active lens motor on a Freely MoVi M15 rig

Built-in Wi-Fi connectivity facilitates remote control of camera functions from iOS or Android devices, with no need for a special app.



The motorized and remotely-controllable internal ND filters permit rapid responses to changing light conditions, and help keep clutter around the camera to a minimum.



Camera metadata

The LDS (Lens Data System) provides the value of the lens parameters such as focal length, focus, iris, zoom, and aperture. These parameters are displayed on the camera's LCD screen during a shot. The LDS also provides the ability to adjust the lens parameters, which reduces the time required for setting up and achieving the desired shot.



Future-proof technology
with 4K UHD, HDR and HFR recording



Unsurpassed overall image quality

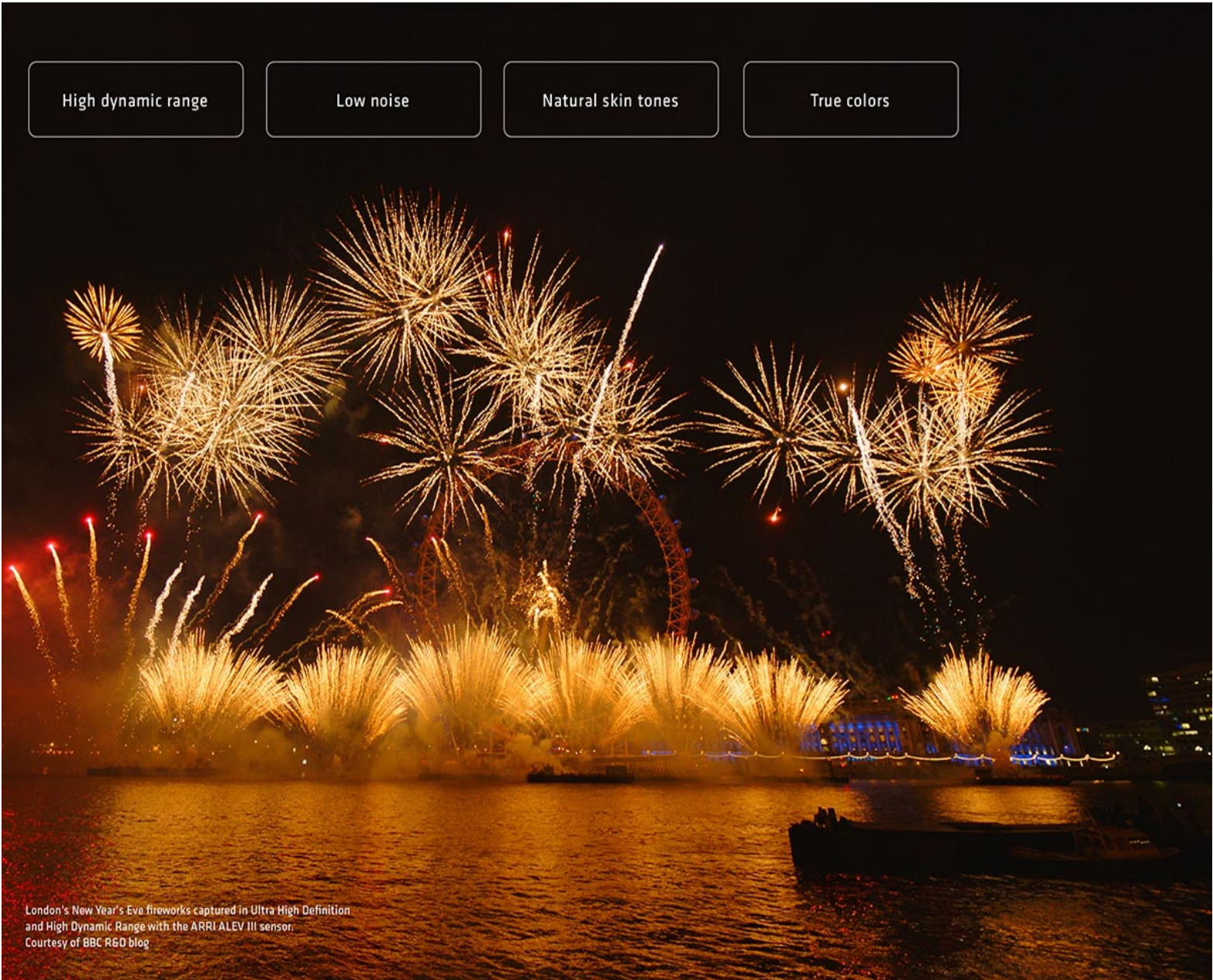
Like the ARRI AMIRA, the ALEXA Mini can record 4K UHD ProRes images, facilitating real-time 4K UHD output and simple pipelines for high-resolution deliverables. More important than this, however, is the fact that the Mini and all other ARRI cameras with the ALEV III sensor offer unrivalled overall image quality by focusing not just on spatial resolution, but also on other image quality parameters such as dynamic range.

High dynamic range

Low noise

Natural skin tones

True colors



London's New Year's Eve fireworks captured in Ultra High Definition and High Dynamic Range with the ARRI ALEV III sensor.
Courtesy of BBC RGD blog

Leverage the full
power of the sensor



Two ALEXA Mini license upgrades are available, allowing users to get the most out of the camera's 4:3 ALEV III sensor. The 4:3 License Key enables ALEXA Mini to record ProRes in 4:3, 4:3 cropped or 16:9 anamorphic and to de-squeeze both the viewfinder image and HD-SDI signal. The ARRIRAW License Key enables the camera to record 2.8K 16:9 ARRIRAW both internally and to an external recorder. Open Gate ARRIRAW recording is possible with cameras that have both license keys installed.

Better pixels, not just more

ARRI's approach is unique in that it does not prioritize one element of image quality over any other. To achieve the highest overall image quality, ARRI uses bigger and better pixels on the sensor, rather than smaller pixels in larger numbers. The result is that ALEXA captures a wider dynamic range, truer colors, lower noise and more natural skin tones than other cameras, whether the chosen output is HD, 2K, 4K UHD or one of the native resolution outputs like uncompressed ARRIRAW 2.8K or ProRes 3.2K. This approach is vindicated by the huge numbers of professional filmmakers who choose ALEXA after extensive real-world comparative testing.

Safe for future industry standards

Images from the ALEXA Mini are uniquely suited to next-generation HDR (High Dynamic Range) displays, which are likely to play a role in defining future format standards. In addition, the ALEXA Mini's camera speeds of 0.75 - 200 fps allow it to be used not just for slow-motion shots, but also for HFR (High Frame Rate) acquisition, which might constitute another strand of future standards. ARRI's holistic approach to image quality makes ALEXA the most future-proof camera system available today, and the safest investment for tomorrow.



ARRI  (<http://www.arri.com>)

Accessories for ALEXA Mini

One of the ALEXA Mini's design principles is to reduce weight by avoiding unnecessary items in and around the camera. The main design concept is for the sensor carrier in the center of the camera to act as a hub, to which are attached the camera body, the lens mount and all accessories. In order to extend that concept, a versatile cage has been created to provide an external support structure with multiple components that can be used and combined flexibly. Due to the symmetrical design of the ALEXA Mini, accessory plates can be positioned on the top as well as the bottom of the camera - in fact the sensor image can be flipped and the camera can easily be used upside-down.

[Click here to visit our accessories web page for more information](#)

http://www.arri.com/camera/pro_camera_accessories/products/suggested_kits/arri/alexa_mini/?node_id=552bc282a9f6da2e21340999



ALEXA Mini Viewfinder

ALEXA Mini can be equipped with a revolutionary multi-viewfinder that makes life incredibly easy for single-operator users, combining a high resolution OLED eyepiece with a fold-away LCD monitor. ALEXA Mini labeled MVF-1 (AMIRA EVF) and 75cm viewfinder cable with connector for ALEXA Mini EVF port.

Transvideo StarliteHD5-ARRI 5" OLED Monitor



5" OLED Monitor with touch functionality and integrated H.264 recorder. The monitor will support camera control via touch interface. Includes SDI cable and power/communication cable that connects to the EXT connector on ALEXA Mini and AMIRA.



Mini Accessory Plates MAP-1 and MAP-2

The cornerstones of the cage are the two accessory plates MAP-1 and MAP-2. MAP-1 is a lightweight and minimalistic plate that provides centered 1/4-20" and 3/8-16" mounting points. MAP-2 is a larger accessory plate with more mounting points and 15 mm LWS rod support that allows the rods to run through the plate.



Mini Viewfinder Bracket MVB-1

The MVB-1 contains all necessary rods and brackets to mount an MVF-1 viewfinder to the camera via MAP-2. MVB-1 combines dual 15 mm LWS rods, a sliding bracket and a cross-pipe mount to create a sturdy viewfinder mount that allows the viewfinder to be moved in all directions.



Rod Mounting Bracket RMB-3

The RMB-3 is the Swiss Army knife of the ALEXA Mini cage and can be used very flexibly in a variety of ways. RMB-3 can be used on MAP-1 and MAP-2 to hold a single 19 mm or 15 mm LWS rod (with reduction insert) and can be mounted to various interface options on the top or sides of the MAP-1 and MAP-2 plates. RMB-3 can also be used in combination with MAP-1, the viewfinder cross-pipe mount and the CCH-2 or CTH-1 handles to create a lightweight top plate with viewfinder and top handle support.



Mini Side Bracket MSB-1

A cage side bracket that features 1/4-20" and 3/8-16" accessory threads and an ARRI standard rosette, the MSB-1 can be mounted to the side of any MAP-1 / MAP-2 configuration. The rosette interface of the MSB-1 is placed asymmetrically so that it can be mounted with the rosette close to the top or close to the bottom, providing flexible options when attaching handles or handle extensions.



Bridge Plate Adapter BPA-4

The BPA-4 is a spacer plate that mounts to MAP-2 in order to interface with standard cine-style bridge plates such as the BP-8 or BP-9. The combination of MAP-2, BPA-4, BP-8 and a dovetail base plate provides 19 mm cine-style long lens support and allows even large zoom lenses to be used with the ALEXA Mini.



Compact Shoulder Pad CSP-1

The CSP-1 shoulder pad clamps onto 15 mm LWS rods either in front of or behind the base plate, to achieve the best possible balance on the shoulder. With CSP-1 attached, the camera rig can be safely put down on a flat surface.



Battery Adapter Plate BAP-1

The battery plate allows industry-standard battery mounts such as V-mount and Gold Mount to be fitted to 15 mm LWS rods. The battery plate can be offset in order to clear the rear memory card slots or to optimize balance.



Battery Adapter Plate BAP-2

Battery adapter plate that is part of the cage and attaches to the side of the camera. The plate provides IDX and AB compatible mounting points for battery adapters like the Bebob V-Mount adapter. BAP-2 requires either a MAP-1 or MAP-2 to be mounted to the top and the bottom of the camera and attaches to the same interface as MSB-1. BAP-2 replicates the interface so that MSB-1 can be mounted on top.



Bebob V-Mount Battery Adapter for ALEXA Mini

Battery adapter for V-Lock batteries with fixed cable and straight connector to the camera. The adapter has two 2-pin lemo sockets to power accessories which serve unregulated battery power. The adapter is made out of black anodized aluminum, very rugged and provides a very tight seating of the battery. The battery adapter requires either BAP-1 or BAP-2 or another battery adapter with IDX mounting points. The battery adapter will be provided by Bebob exclusively for ARRI.

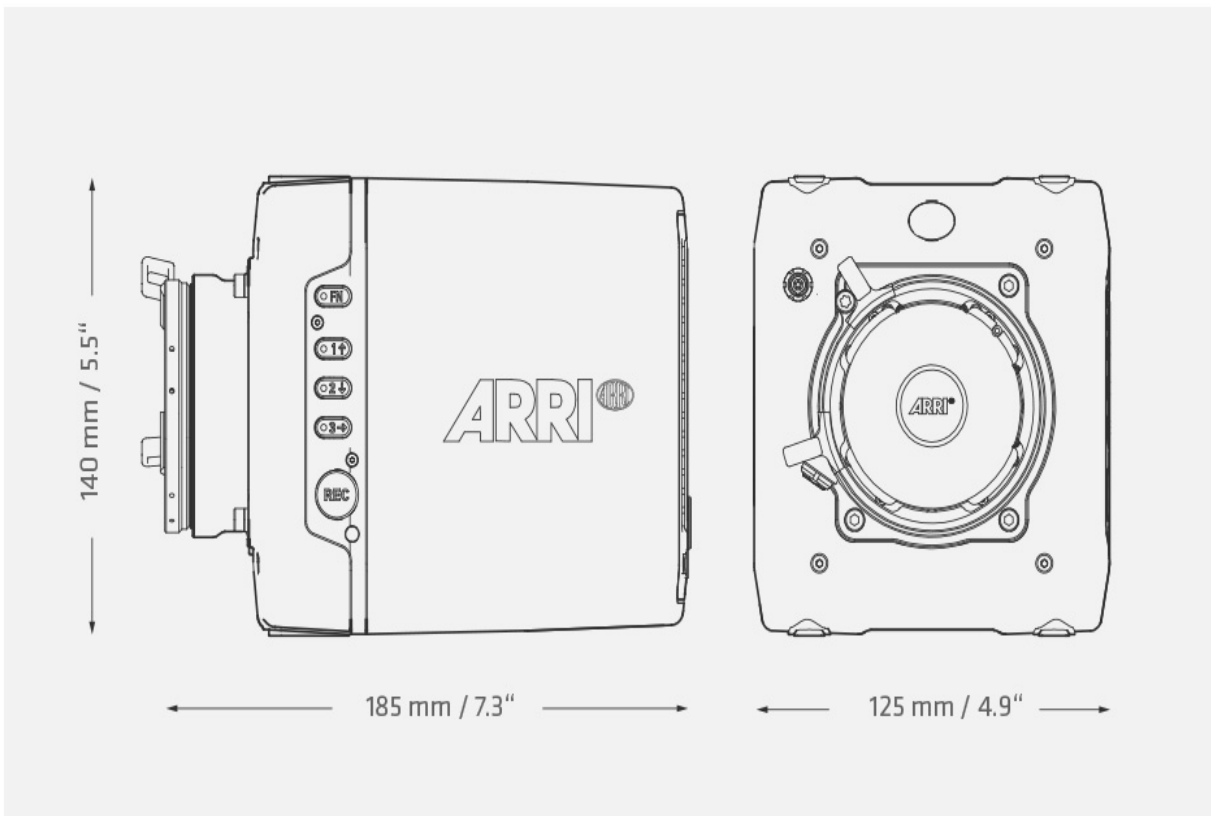


EXT-RS Adapter

Short adapter cable that connects to the EXT connector of the ALEXA Mini and provides a 3-pin RS connector.



Dimensions



Technical specifications

Camera type

35 format film-style digital camera with lightweight and compact carbon body, 4:3/16:9 switchable active sensor area, support for ARRI MVF-1 viewfinder, built-in remote control capabilities via ARRI Electronic

Control System and Wi-Fi, support for cforce motors, built-in motorized ND filters, interchangeable lens mounts and ARRI Lens Data System

Dimensions	Length: 185 mm/7.3" Width: 125 mm/4.9" Height: 140 mm/5.5" (camera body with PL lens mount)
Weight	~ 2.3 kg/5 lbs (camera body with titanium PL lens mount)
Sensor	35 mm format ARRI ALEV III CMOS with Bayer pattern color filter array
Photo sites (with surround view)	16:9 ProRes HD 2880x1620 16:9 ProRes 2K 2867x1613 16:9 ProRes 3.2K 3200x1800 16:9 ProRes 4K UHD 3200x1800 4:3 ProRes 2.8K 2880x2160 * 6:5 ProRes De-squeezed to 2K 2560x2145 * 8:9 ProRes De-squeezed to HD 1920x2160 * 16:9 ARRIRAW 2.8K 2880x2160 * Open Gate ARRIRAW 3.4K 3414x2198 *
Shutter	Electronic shutter, 5.0° to 356.0°
Exposure latitude	14+ stops over the entire sensitivity range from EI 160 to EI 3200 as measured with the ARRI Dynamic Range Test Chart (DRTC-1)
Exposure index	EI 800 base sensitivity
Filters	Built-in motorized ND filters 0.6, 1.2, 2.1
Lens mounts	Titanium PL mount with L-Bus connector and LDS EF mount PL mount with Hirose connector and LDS B4 mount with Hirose connector
Recording media	CFast 2.0 memory cards
Recording formats	16:9 ProRes HD (1920 x 1080) 16:9 ProRes 2K (2048 x 1152) 16:9 ProRes 3.2K (3200 x 1800) 16:9 ProRes 4K UHD (3840 x 2160) 4:3 ProRes 2.8K (2880 x 2160) * 6:5 ProRes De-squeezed to 2K (2048 x 858) * 8:9 ProRes De-squeezed to HD (1920 x 1080) * 16:9 ARRIRAW 2.8K (2880 x 1620) * Open Gate ARRIRAW 3.4K (3414 x 2198) * (The pixel count in brackets shows the number of pixels in the recorded file.)
Recording codec	ProRes 422, 422 HQ, 4444, 4444 XQ, ARRIRAW *

Recording frame rates

Sensor Mode	Recording Format			Maximum Frame Rate in fps ⁽¹⁾	
	Recording File Type	Recording Resolution ⁽²⁾	Recording File Setting	Internal Recording	External Recorder
				CFast 2.0 128 GB	Codex
16:9	ProRes	HD	422 / 422 HQ	200	-
			4444	200	-
			4444 XQ	120	-
		2K	422 / 422 HQ	200	-
			4444	200	-
			4444 XQ	120	-
		3.2K	422 / 422 HQ	60	-
			4444	60	-
			4444 XQ	30	-
		UHD	422 / 422 HQ	60	-
			4444	60	-
			4444 XQ	30	-
		ARRIRAW*	2.8K	-	30
4:3	ProRes*	2.8K	422 / 422 HQ	55	-
			4444	55	-
			4444 XQ	45	-
6:5**	ProRes*	De-squeezed to 2K	422 / 422 HQ	150	-
			4444	150	-
			4444 XQ	120	-
8:9***	ProRes*	De-squeezed to HD	422 / 422 HQ	150	-
			4444	150	-
			4444 XQ	120	-
Open Gate	ARRIRAW*	3.4K	-	30	60

* available in a later SUP ** 4:3 cropped *** Center crop from anamorphic (1) Minimum frame rate is always 0.75 fps (2) The „recording resolution“ determines the number of horizontal pixels that will be recorded (the number of vertical pixels is dependent on the recording file type and sensor mode)

Color output

Rec 709, custom look or Log C

Look control

Import of custom 3D LUT, ASC CDL parameter (slope, offset, power, saturation)

Adjustable image parameters

Knee, gamma, saturation, black gamma, saturation by hue

Focus and exposure control

Peaking, zebra, false color

White balance

Manual and auto white balance

Sound level

< 20 dB(A) at standard frame rates

Environmental

-20° C to +45° C (-4° F to +113° F) @ 95% humidity max, non-condensing
Splash and dust-proof through sealed electronics

Viewfinder

Multi Viewfinder MVF-1 (OLED and LCD) with flip-out LCD screen and military-grade connector to camera

Control interface

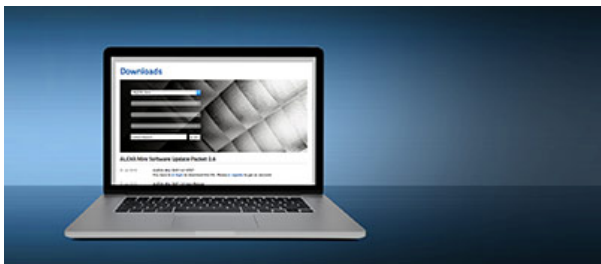
Soft buttons and OSD on SDI output, integration of Transvideo StarliteHD touch interface

ARRI lens motor control	Built-in radio interface for ARRI lens control L-Bus motor output for daisy-chainable cforce lens control motors
Wi-Fi remote control	Built-in Wi-Fi interface and web-based remote control from phones, tablets and laptops
Custom control	Optional GPIO interface for integration with custom control interfaces
Power input	Lemo 8-pin, 10.5-34 V DC
Video outputs	2x HD-SDI out 1.5G and 3G: uncompressed HD video with embedded audio and metadata, SDI-6G interface to external CODEX recorder *
Inputs	SDI-Genlock (optional activation through ARRI Service), timecode (in and output)
Other interfaces	USB 2.0 (for usersets, looks etc.) Ethernet EXT accessory interface w. RS pin

* available in a later SUP



Downloads



<https://www.arri.com/support/downloads/?>

[suchoption1 id=Camera/35 Format_Digital_Camera/ALEXA_Mini](https://www.arri.com/support/downloads/?))



ALEXA Mini download area

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Software Update Package 3.0 (SUP) now available!

(<https://www.arri.com/support/downloads/>)

We highly recommend installing this free-of-charge

suchoption1_id=Camera/35_Format_Digital_Camera/ALEXA Mini) update at your earliest convenience, to further enhance

the functionality and stability of your ALEXA Mini.



(<http://www.arri.com>)

Frequently asked questions

What was ARRI's rationale when creating the ALEXA Mini?

Who do you see as the potential users?

What is the price-point of the camera?

Is the lens mount included in the price?

What lens mounts are available?

What viewfinder options are available? Can the ALEXA Mini be controlled without an ARRI EVF?

What codecs and resolutions are available?

Will it record 4K?

Is ARRIRAW support possible in the future?

What are the slow motion frame rates on offer?

Which sensor is being used?

What is the power draw?

What are the audio features - can XLR and Phantom power be used?

What is included and what are the optional extras?

What is the weight of the camera?

Does the ALEXA Mini replace the ALEXA M?

How does the ALEXA Mini compare to the ALEXA XT?

How does the ALEXA Mini compare to the AMIRA?

Will Open Gate be supported?

Will video streaming be available?

What power outputs are there?

Will 50 Mbit MPEG-2 MXF recording be possible, like it is with the AMIRA?

How do you mount batteries onto the ALEXA Mini?

Are the electronics encapsulated like on the other ARRI cameras?

Do I have to turn the camera into service for the 4:3 or ARRIRAW upgrade?

How will ARRIRAW be recorded? Will it work with a standard reader?

What is the noise level of the camera?

What are the audio capabilities?

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