

# The Arri Alexa Mini LF

Sensor Type	Large Format ARRI ALEV III (A2X) CMOS sensor with Bayer pattern color filter array
Sensor Maximum Number of Photosites and Size	4448 x 3096   36.70 x 25.54 mm / 1.444 x 1.005"   diameter 44.71 mm / 1.760"
Sensor Frame Rates	0.75 - 90 fps
Weight	~2.6 kg / ~5.7 lbs (camera body with LPL lens mount)   800 g (MVF-2)
Photosite Pitch	8.25 µm
Sensor Active Image Area (photosites)	ARRIRAW 4.5K LF 3:2 Open Gate - 4.5K: 4448 x 3096   ARRIRAW 4.5K LF 2.39:1 - 4.5K: 4448 x 1856   ARRIRAW 3.8K LF 16:9 - UHD: 3840 x 2160   ARRIRAW 2.8K LF 1:1 - 2.8K: 2880 x 2880   ARRIRAW 3.4K S35 3:2 - 3.4K: 3424 x 2202   Apple ProRes 4.5K LF 3:2 Open Gate - 4.5K: 4448 x 3096   Apple ProRes 4.5K LF 2.39:1 - 4.5K: 4448 x 1856   Apple ProRes 4.3K LF 16:9 - UHD: 4320 x 2430   Apple ProRes 4.3K LF 16:9 - HD: 4320 x 2430   Apple ProRes 3.8K LF 16:9 - UHD: 3840 x 2160   Apple ProRes 3.8K LF 16:9 - 2K: 3840 x 2160   Apple ProRes 3.8K LF 16:9 - HD: 3840 x 2160   Apple ProRes 2.8K LF 1:1 - 2.8K: 2880 x 2880   Apple ProRes 3.2K S35 16:9 - 3.2K: 3200 x 1800   Apple ProRes 2.8K S35 4:3 - 2.8K: 2880 x 2160   Apple ProRes 2.8K S35 16:9 - HD: 2880 x 1620
Sensor Active Image Area (dimensions)	ARRIRAW 4.5K LF 3:2 Open Gate - 4.5K: 36.70 x 25.54 mm / 1.445 x 1.006"   ARRIRAW 4.5K LF 2.39:1 - 4.5K: 36.70 x 15.31 mm / 1.445 x 0.603"   ARRIRAW 3.8K LF 16:9 - UHD: 31.68 x 17.82 mm / 1.247 x 0.702"   ARRIRAW 2.8K LF 1:1 - 2.8K: 23.76 x 23.76 mm / 0.935 x 0.935"   ARRIRAW 3.4K S35 3:2 - 3.4K: 28.25 x 18.17 mm / 1.112 x 0.715"   Apple ProRes 4.5K LF 3:2 Open Gate - 4.5K: 36.70 x 25.54 mm / 1.445 x 1.006"   Apple ProRes 4.5K LF 2.39:1 - 4.5K: 36.70 x 15.31 mm / 1.445 x 0.603"   Apple ProRes 4.3K LF 16:9 - UHD: 35.64 x 20.05 mm / 1.403 x 0.789"   Apple ProRes 4.3K LF 16:9 - HD: 35.64 x 20.05 mm / 1.403 x 0.789"   Apple ProRes 3.8K LF 16:9 - UHD: 31.68 x 17.82 mm / 1.247 x 0.702"   Apple ProRes 3.8K LF 16:9 - 2K: 31.68 x 17.82 mm / 1.247 x 0.702"   Apple ProRes 3.8K LF 16:9 - HD: 31.68 x 17.82 mm / 1.247 x 0.702"   Apple ProRes 2.8K LF 1:1 - 2.8K: 23.76 x 23.76 mm / 0.935 x 0.935"   Apple ProRes 3.2K S35 16:9 - 3.2K: 26.40 x 14.85 mm / 1.039 x 0.585"   Apple ProRes 2.8K S35 4:3 - 2.8K: 23.76 x 17.82 mm / 0.935 x 0.702"   Apple ProRes 2.8K S35 16:9 - HD: 23.76 x 13.37 mm / 0.935 x 0.526"

Recording File Container Size (pixel)	<ul style="list-style-type: none"> <li>  ARRIRAW 4.5K LF 3:2 Open Gate - 4.5K: 4448 x 3096</li> <li>  ARRIRAW 4.5K LF 2.39:1 - 4.5K: 4448 x 1856</li> <li>  ARRIRAW 3.8K LF 16:9 - UHD: 3840 x 2160</li> <li>  ARRIRAW 2.8K LF 1:1 - 2.8K: 2880 x 2880</li> <li>  ARRIRAW 3.4K S35 3:2 - 3.4K: 3424 x 2202</li> <li>  Apple ProRes 4.5K LF 3:2 Open Gate - 4.5K: 4480 x 3096</li> <li>  Apple ProRes 4.5K LF 2.39:1 - 4.5K: 4480 x 1856</li> <li>  Apple ProRes 4.3K LF 16:9 - UHD: 3840 x 2160</li> <li>  Apple ProRes 4.3K LF 16:9 - HD: 1920 x 1080</li> <li>  Apple ProRes 3.8K LF 16:9 - UHD: 3840 x 2160</li> <li>  Apple ProRes 3.8K LF 16:9 - 2K: 2048 x 1152</li> <li>  Apple ProRes 3.8K LF 16:9 - HD: 1920 x 1080</li> <li>  Apple ProRes 2.8K LF 1:1 - 2.8K: 3072 x 2880</li> <li>  Apple ProRes 3.2K S35 16:9 - 3.2K: 3200 x 1800</li> <li>  Apple ProRes 2.8K S35 4:3 - 2.8K: 2880 x 2160</li> <li>  Apple ProRes 2.8K S35 16:9 - HD: 1920 x 1080</li> </ul>
Recording File Image Content (pixel)	<ul style="list-style-type: none"> <li>  ARRIRAW 4.5K LF 3:2 Open Gate - 4.5K: 4448 x 3096</li> <li>  ARRIRAW 4.5K LF 2.39:1 - 4.5K: 4448 x 1856</li> <li>  ARRIRAW 3.8K LF 16:9 - UHD: 3840 x 2160</li> <li>  ARRIRAW 2.8K LF 1:1 - 2.8K: 2880 x 2880</li> <li>  ARRIRAW 3.4K S35 3:2 - 3.4K: 3424 x 2202</li> <li>  Apple ProRes 4.5K LF 3:2 Open Gate - 4.5K: 4448 x 3096</li> <li>  Apple ProRes 4.5K LF 2.39:1 - 4.5K: 4448 x 1856</li> <li>  Apple ProRes 4.3K LF 16:9 - UHD: 3840 x 2160</li> <li>  Apple ProRes 4.3K LF 16:9 - HD: 1920 x 1080</li> <li>  Apple ProRes 3.8K LF 16:9 - UHD: 3840 x 2160</li> <li>  Apple ProRes 3.8K LF 16:9 - 2K: 2048 x 1152</li> <li>  Apple ProRes 3.8K LF 16:9 - HD: 1920 x 1080</li> <li>  Apple ProRes 2.8K LF 1:1 - 2.8K: 2880 x 2880</li> <li>  Apple ProRes 3.2K S35 16:9 - 3.2K: 3200 x 1800</li> <li>  Apple ProRes 2.8K S35 4:3 - 2.8K: 2880 x 2160</li> <li>  Apple ProRes 2.8K S35 16:9 - HD: 1920 x 1080</li> </ul>
Dynamic Range	<ul style="list-style-type: none"> <li>  14+ stops over the entire sensitivity range from EI 160 to EI 3200</li> <li>  as measured with the ARRI Dynamic Range Test Chart (DRTC-1)</li> </ul>
Exposure Index	<ul style="list-style-type: none"> <li>  Adjustable from EI 160-3200 in 1/3 stops EI 800 base sensitivity</li> </ul>
Shutter	<ul style="list-style-type: none"> <li>  Electronic shutter, 5.0°- 356° or 1s - 1/8000s</li> </ul>
Recording Formats	<ul style="list-style-type: none"> <li>  MXF/ARRIRAW</li> <li>  MXF/Apple ProRes 4444 XQ</li> <li>  MXF/Apple ProRes 4444</li> <li>  MXF/Apple ProRes 422 HQ</li> </ul>
Recording Media	<ul style="list-style-type: none"> <li>  Codex Compact Drive 1TB (CA08-1024)</li> <li>  Codex Compact Drive 2TB (CB16-2048)</li> </ul>
Recording Modes	<ul style="list-style-type: none"> <li>  Standard real-time recording</li> <li>  No Pre-recording</li> <li>  No Intervalometer</li> </ul>

Recording Frame Rates	<ul style="list-style-type: none"> <li>  ARRIRAW 4.5K LF 3:2 Open Gate - 4.5K: 0.75 - 40 fps</li> <li>  ARRIRAW 4.5K LF 2.39:1 - 4.5K: 0.75 - 60 fps</li> <li>  ARRIRAW 3.8K LF 16:9 - UHD: 0.75 - 60 fps</li> <li>  ARRIRAW 2.8K LF 1:1 - 2.8K: 0.75 - 60 fps</li> <li>  ARRIRAW 3.4K S35 3:2 - 3.4K: 0.75 - 60 fps</li> <li>  Apple ProRes 4.5K LF 3:2 Open Gate - 4.5K: 0.75 - 40 fps</li> <li>  Apple ProRes 4.5K LF 2.39:1 - 4.5K: 0.75 - 60 fps</li> <li>  Apple ProRes 4.3K LF 16:9 - UHD: 0.75 - 48 fps</li> <li>  Apple ProRes 4.3K LF 16:9 - HD: 0.75 - 75 fps</li> <li>  Apple ProRes 3.8K LF 16:9 - UHD: 0.75 - 60 fps</li> <li>  Apple ProRes 3.8K LF 16:9 - 2K: 0.75 - 90 fps</li> <li>  Apple ProRes 3.8K LF 16:9 - HD: 0.75 - 90 fps</li> <li>  Apple ProRes 2.8K LF 1:1 - 2.8K: 0.75 - 60 fps</li> <li>  Apple ProRes 3.2K S35 16:9 - 3.2K: 0.75 - 75 fps</li> <li>  Apple ProRes 2.8K S35 4:3 - 2.8K: 0.75 - 75 fps</li> <li>  Apple ProRes 2.8K S35 16:9 - HD: 0.75 - 100 fps</li> </ul>
Viewfinder type	Multi Viewfinder MVF-2 with 4" flip-out monitor
Viewfinder Technology	OLED viewfinder display, LCD flip-out monitor
Viewfinder Resolution (pixel)	1920 x 1080
Viewfinder Diopter	Adjustable from -5 to +5 diopters
Color Output	Rec 709, Rec 2020, Log C, Custom Look (ARRI Look File ALF-2)
Look Control	<ul style="list-style-type: none"> <li>  Import of custom 3D LUT</li> <li>  ASC CDL parameters (slope, offset, power, saturation)</li> </ul>
White Balance	<ul style="list-style-type: none"> <li>  Manual and auto white balance, adjustable from 2000K to 11000K in 10K steps</li> <li>  Color correction adjustable range from -16 to +16 CC</li> <li>  1 CC corresponds to 035 Kodak CC values or 1/8 Rosco values</li> </ul>
Filters	<ul style="list-style-type: none"> <li>  Four position built-in motorized ND filter: Clear, 0.6, 1.2, 1.8</li> <li>  Fixed optical low pass, UV, IR filter</li> </ul>
Image Outputs	<ul style="list-style-type: none"> <li>  1x proprietary signal output for MVF-2 viewfinder on VF CoaXPress connector (video, audio, power, control signals)</li> <li>  SDI 1: <ul style="list-style-type: none"> <li>  -HD only, Processed or Clean, with or without a look file applied</li> <li>  -1.5G 422 HD (SMPTE ST292-1, up to 30 fps, progressive (p) or progressive segmented frame (psf))</li> <li>  -3G 422 HD (SMPTE ST425-1, up to 60 fps, p)</li> <li>  -3G 444 HD (SMPTE ST425-3, up to 30 fps, p)</li> </ul> </li> <li>  SDI 2: <ul style="list-style-type: none"> <li>  -HD or UHD, Clean only, with or without a look file applied, or SDI 1 clone</li> <li>  -1.5G 422 HD (SMPTE ST292-1, up to 30 fps, p or psf)</li> <li>  -3G 422 HD (SMPTE ST425-1, up to 60 fps, p)</li> <li>  -3G 444 HD (SMPTE ST425-3, up to 30 fps, p)</li> <li>  -6G 422 UHD (SMPTE ST2081-10, up to 30 fps, p)</li> </ul> </li> </ul> <p> <ul style="list-style-type: none"> <li>  "Clean" is an image without surround view or overlays (status, false color, zebra, framelines, etc.) "Processed" is an image with surround view or overlays.</li> </ul> </p>

Lens Squeeze Factors	1.00, 1.25, 1.30, 1.50, 1.65, 1.80, 2.00
Exposure and Focus Tools	False Color, Zebra, Zoom, Aperture and Color Peaking
Audio Input	1x LEMO 6pin balanced stereo line in with 12V power output   (Line input max. level +24dBu correlating to 0dBFS)   Two built-in microphones for scratch audio
Audio Output	SDI (embedded) 3,5mm stereo headphone jack (on MVF-2)
Audio Recording	2 channel linear PCM, 24 bit 48 kHz
Remote Control Options	MVF-2 viewfinder as wired remote control with 10m/33ft cable   Camera Companion App   ARRI Electronic Control System (ECS)   Web-based remote control via Ethernet & WiFi (beta version)   Camera Access Protocol (CAP) via Ethernet & WiFi   GPIO interface for integration with custom control interfaces
Interfaces	1x LEMO 5pin LTC Timecode In/Out   1x LEMO 10pin Ethernet for remote control and service   1x BNC SYNC IN   1x LEMO 7pin EXT multi purpose accessory interface w. RS pin and 24V power output   1x LEMO 4pin LBUS (on lens mount) for lens motors, daisy chainable   1x USB 2.0 in media bay (for user setups, look files etc)
Wireless Interfaces	Built-in WiFi module (IEEE 802.11b/g)   Built-in White Radio for ARRI lens and camera remote control
Lens Mounts	LPL lens mount with LBUS connector, PL-to-LPL adapter, EF Mount (LBUS)   Leitz M mount (availbale from Leitz)
Flange Focal Depth	LPL mount: 44 mm, with PL-to-LPL adapter: 52 mm
Power Input	1x LEMO 8pin (11-34 V DC)
Power Consumption	Around 65 W when recording ARRIRAW at 24 fps with MVF-2 attached   (preliminary information)
power Outputs	1x Fischer 3pin 24V RS, 1x LEMO 2pin 12V, 1x LEMO 7pin EXT 24V power output
Measuirments	140 x 143 x 188 mm / 5.5 x 5.6 x 7.4" (camera body with LPL lens mount)
Operatting Temperature	-20° C to +45° C / -4° F to +113° F @ 95% relative humidity max, non condensing,   splash and dust proof through sealed electronics
Storage Temperature	-30° C to +70° C / -22° F to +158° F
Sound Level	< 20 dB(A) at 24fps

Specifications are provided for the informational use of our clients and are taken from sources deemed to be reliable, but not guaranteed. Exact specifications may vary due to issues such as firmware or version. Please check with the team at Triode regarding any mission critical specifications before renting any equipment. <https://triode.tv/contact/> or call 717-455-3940.