



Technical Data

Model

ALEXA Mini

Sensor Type

Super 35 format ARRI ALEV III CMOS sensor with Bayer pattern color filter array

Sensor Maximum Number of Photosites and Size

3424 x 2202
28.25 x 18.17 mm / 1.112 x 0.715"
ø 33.59 mm / 1.322"

Sensor Frame Rates

0.75 - 200 fps

Weight

~2.3 kg / ~5 lbs
(camera body with titanium PL lens mount)

Photosite Pitch

8.25 µm

Sensor Active Image Area (photosites)

S16 HD: 1600 x 900
HD: 2880 x 1620
2K: 2868 x 1612
3.2K: 3200 x 1800
4K UHD: 3200 x 1800
4:3 2.8K: 2880 x 2160
2.39:1 2K Ana.: 2560 x 2145
HD Ana.: 1920 x 2160
ARRIRAW 16:9 2.8K: 2880 x 1620
Open Gate 3.4K: 3424 x 2202

Sensor Active Image Area (dimensions)

S16 HD: 13.20 x 7.43 mm / 0.520 x 0.292"
HD: 23.76 x 13.37 mm / 0.935 x 0.526"
2K: 23.66 x 13.30 mm / 0.932 x 0.524"
3.2K: 26.40 x 14.85 mm / 1.039 x 0.585"

4K UHD: 26.40 x 14.85 mm / 1.039 x 0.585"
 4:3 2.8K: 23.76 x 17.82 mm / 0.935 x 0.702"
 2.39:1 2K Ana.: 21.12 x 17.70 mm / 0.831 x 0.697"
 HD Ana.: 15.84 x 17.82 mm / 0.624 x 0.702"
 ARRIRAW 16:9 2.8K: 23.76 x 13.37 mm / 0.935 x 0.526"
 Open Gate 3.4K: 28.25 x 18.17 mm / 1.112 x 0.715"

Recording File Container Size (pixel)

S16 HD: 1920 x 1080
 HD: 1920 x 1080
 2K: 2048 x 1152
 3.2K: 3200 x 1800
 4K UHD: 3840 x 2160
 4:3 2.8K: 2944 x 2160
 2.39:1 2K Ana.: 2048 x 858
 HD Ana.: 1920 x 1080
 ARRIRAW 16:9 2.8K: 2880 x 1620
 Open Gate 3.4K: 3424 x 2202

Recording File Image Content (pixel)

ProRes S16 HD: 1920 x 1080
 ProRes HD: 1920 x 1080
 ProRes 2K: 2048 x 1152
 ProRes 3.2K: 3200 x 1800
 ProRes 4K UHD: 3840 x 2160
 ProRes 4:3 2.8K: 2880 x 2160
 ProRes HD Anamorphic: 1920 x 1080
 ProRes 2.39:1 2K Anamorphic: 2048 x 858
 ARRIRAW 16:9 2.8K: 2880 x 1620
 ARRIRAW Open Gate 3.4K: 3424 x 2202
 ARRIRAW 4:3 2.8K (OG 3.4K): 3424 x 2202
 ARRIRAW 2.39:1 2K Ana. (OG 3.4K): 3424 x 2202
 ARRIRAW 16:9 HD Ana. (OG 3.4K): 3424 x 2202

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

Adjustable from EI 160–3200 in 1/3 stops
 EI 800 base sensitivity

Shutter

Electronic shutter, 5.0° - 356° or 1s - 1/8000s

Recording Formats

ARRIRAW
 Apple ProRes 4444 XQ
 Apple ProRes 4444
 Apple ProRes 422 HQ
 Apple ProRes 422
 Apple ProRes 422 LT

Recording Media

CFast 2.0 Cards

Recording Frame Rates



ProRes HD: 0.75 - 200 fps
 ProRes S16 HD: 0.75 - 200 fps
 ProRes 2K: 0.75 - 200 fps
 ProRes 3.2K: 0.75 - 60 fps
 ProRes UHD: 0.75 - 60 fps
 ProRes 4:3 2.8K: 0.75 - 50 fps
 ProRes 2:39:1 2K Ana.: 0.75 - 120 fps
 ProRes HD Ana.: 0.75 - 120 fps
 MFX/ARRIRAW 16:9 2.8K: 0.75 - 48 fps
 MFX/ARRIRAW 3.4K Open Gate: 0.75 - 30 fps

Recording Modes	Standard real-time recording Pre-recording Intervalometer Stop Motion
Viewfinder Type	Multi Viewfinder MVF-1 with 3,2" flip-out monitor Camera Control Panel (CCP-1) with option to daisy-chain MVF-1
Viewfinder Technology	OLED viewfinder display LCD fold out monitor
Viewfinder Resolution (pixel)	1280 x 720
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	Import of custom 3D LUT ASC CDL parameters (slope, offset, power, saturation) Knee, gamma, saturation, black gamma, saturation by hue Support of ARRI Look Library
White Balance	Manual and auto white balance, adjustable from 2000K to 11000K in 10K steps Color correction adjustable range from -16 to +16 CC 1 CC corresponds to 035 Kodak CC values or 1/8 Rosco values
Filters	Built-in motorized ND filters 0.6, 1.2, 2.1 Fixed optical low pass, UV, IR filter
Image Outputs	1x proprietary signal output for MVF-1 viewfinder 2x SDI Out: 1,5G (SMPTE ST292-1), 3G (SMPTE ST425-1, ST425-3), 6G & DL 6G (SMPTE ST2081-10, ST2081-11) uncompressed video with embedded audio and metadata



Lens Squeeze Factors	1.00 1.30 2.00
Exposure and Focus Tools	False Color Zebra Zoom Waveform Aperture and Color Peaking
Audio Input	1x LEMO 5pin balanced stereo line in (Line input max. level +24dBu correlating to 0dBFS)
Audio Output	SDI (embedded)
Audio Recording	2 channel linear PCM, 24 bit 48 kHz
Remote Control Options	Web-based remote control from phones, tablets and laptops via WiFi & Ethernet Camera Access Protocol via Ethernet & WiFi GPIO interface for integration with custom control interfaces WCU-4 hand-unit with control over lens motors and operational parameters via built-in white radio
Interfaces	1x LEMO 5pin LTC Timecode In/Out 1x LEMO 10pin Ethernet for remote control and service 1x BNC Sync In (optional activation through ARRI Service) 1x LEMO 7pin EXT multi purpose accessory interface w. RS pin and unregulated power output (outputs battery voltage) 1x LEMO 4pin LBUS (on lens mount) for lens motors, daisy chainable 1x USB 2.0 (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	Titanium PL lens mount with LBUS connector ARRI LPL Mount (LBUS) PL lens mount with Hirose connector ARRI EF Mount (LBUS) EF lens mount B4 lens mount with Hirose connector Leitz M mount (available from Leitz)
Flange Focal Depth	PL mount: 52 mm LPL mount: 44 mm

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ALEXA Mini



Power Input

1x LEMO 8pin (10.5-34 V DC)

Power Consumption

min. 43W
max. 84W
(Camera body with MVF-1)

Power Outputs

1x LEMO 7pin EXT unregulated power output (outputs battery voltage) with max. 1.1 A

Power Management

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Measurements (HxWxL)

140 x 125 x 185 mm / 5.5 x 4.9 x 7.3"
(camera body with PL lens mount)

Operating 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

Software Licenses

ALEXA Mini 4:3 License Key
ALEXA Mini ARRIRAW License Key
ARRI Look Library License Key