

ALEXA MINI LF SPECIFICATIONS

Sensor Type: Large-Format ARRI ALEV III (A2X) CMOS with Bayer pattern color filter array

Sensor Resolution: 4448 × 3096 photosites

Sensor Size: 36.70 × 25.54 mm

Sensor Diagonal: 44.71 mm

Photosite Pitch: 8.25 µm

Dynamic Range: 14+ stops

Base Sensitivity: EI 800

Exposure Index Range: EI 160–3200, adjustable in 1/3-stop increments

Maximum Sensor Frame Rate: Up to 100 fps, depending on recording format and software version

Recording Formats and Resolutions:

4.5K LF 3:2 Open Gate: 4448 × 3096 (ARRIRAW) / 4480 × 3096 (ProRes)

4.5K LF 2.39:1: 4448 × 1856 (ARRIRAW) / 4480 × 1856 (ProRes)

4.3K LF 16:9: 4320 × 2430 sensor area

3.8K LF 16:9: 3840 × 2160

2.8K LF 1:1: 2880 × 2880 (ARRIRAW) / 3072 × 3024 (ProRes)

3.4K S35 3:2: 3424 × 2202

3.2K S35 16:9: 3200 × 1800

2.8K S35 4:3: 2880 × 2160

2.8K S35 16:9: 2880 × 1620 sensor area

The camera supports both large-format and Super 35 recording modes.

Recording Codecs:

MXF/ARRIRAW

MXF/Apple ProRes 4444 XQ

MXF/Apple ProRes 4444

MXF/Apple ProRes 422 HQ

Recording Media: Codex Compact Drives, including compatible 1 TB and 2 TB models.

Frame Rates and Shutter:

Sensor Frame Rate Range: 0.75–100 fps, depending on software version

Shutter Type: Electronic shutter

Shutter Angle: 5°–356°

Shutter Speed: 1 second to 1/8000 second

Maximum frame rates vary according to the selected recording format. In the original recording-format configuration, examples include 40 fps in 4.5K Open Gate, 60 fps in 4.5K 2.39:1 and up to 100 fps in 2.8K Super 35 16:9, subject to software version.

Lens Mounts:

Standard Lens Mount: ARRI LPL mount

Available Lens Mounts: LPL and compatible PL mount configurations

Lens Data: LDS support, depending on the lens mount and lens

Lens Mount Interface: Interchangeable

Image Circle: 44.71 mm for full large-format coverage

Built-in ND Filters

Integrated Motorized FSND Filter System

Clear

FSND 0.6 (2 stops)

FSND 1.2 (4 stops)

FSND 1.8 (6 stops)

The camera also includes fixed optical low-pass, UV and IR filtration.

Viewfinder

Viewfinder Model: ARRI MVF-2

Viewfinder Type: Electronic OLED viewfinder with flip-out LCD touchscreen

OLED Resolution: 1920 × 1080 pixels

LCD Monitor Size: 4 inches

Diopter Adjustment: –5 to +5 diopters

Features: Camera control, image monitoring and menu access

Video Outputs and Connectivity:

6G-capable SDI output supporting 4K monitoring
Additional SDI monitoring output
Built-in Wi-Fi for remote camera control
Ethernet connectivity
Built-in Genlock synchronization
EXT connector for remote camera control and sensor synchronization
Timecode input/output
RET IN for return video
SYNC IN for synchronization
USB connectivity for camera setup and supported accessories
LBUS support for compatible lens motors and accessories

Power Requirements:

Power Input: LEMO 8-pin PWR connector
Input Voltage: 11–34 V DC
Power Consumption: Approximately 65 W when recording ARRIRAW at 24 fps with the MVF-2 viewfinder connected
Power Consumption varies according to recording format, accessories and camera configuration.
Power Outputs
12 V accessory power output
24 V accessory power output
RS connector for compatible accessories and camera functions
LBUS connector for compatible lens motors and accessories
Additional power distribution available through compatible ARRI accessories.

Physical Dimensions and Weight:

Camera Body Weight: Approximately 2.6–2.7 kg / 5.7–6.0 lb, depending on configuration
Viewfinder Weight: Approximately 800 g / 1.76 lb
Camera Dimensions: Similar to the ARRI ALEXA Mini, with additional media-bay space on the camera-left side.
Image Processing and Color Science

ARRI ALEV III A2X CMOS Sensor

ARRI Wide Gamut 3 (AWG3)

ARRI LogC3

ARRI Look File support (ALF-2)

Custom 3D LUT support

ASC CDL parameters: slope, offset, power and saturation

Monitoring color spaces include Rec. 709 and Rec. 2020

Operating Conditions:

Operating Temperature: Refer to the official ARRI technical documentation for the applicable configuration

Storage Temperature: Refer to the official ARRI technical documentation

Environmental Protection: Professional cinema-camera construction for production environments