

ALEXA 35 XTREME

SPECIFICATIONS

Sensor Type: Super 35 ARRI ALEV 4 CMOS with Bayer pattern color filter array

Sensor Resolution: 4608 × 3164 photosites

Sensor Size: 27.99 × 19.22 mm

Sensor Diagonal: 33.96 mm

Photosite Pitch: 6.075 µm

Dynamic Range: 17 stops

Exposure Index Range: EI 160–6400, adjustable in 1/3-stop increments

Maximum Sensor Frame Rate: Up to 660 fps, depending on recording format, codec and license configuration

Recording Formats and Resolutions:

4.6K 3:2 Open Gate: 4608 × 3164

4.6K 16:9: 4608 × 2592

4K 16:9: 4096 × 2304

3.8K 16:9: 3840 × 2160

3.8K 2.39:1: 3840 × 1608

3.3K 6:5 Anamorphic: 3328 × 2790

2K 16:9 Super 16: 2048 × 1152

HD 16:9 Super 16: 1920 × 1080

Additional recording resolutions and anamorphic formats are available depending on the installed licenses and selected recording codec.

Recording Codecs:

MXF/ARRIRAW

MXF/ARRICORE

MXF/Apple ProRes 4444 XQ

MXF/Apple ProRes 4444

MXF/Apple ProRes 422 HQ

Recording Media: Codex Compact Drive 1TB, Codex Compact Drive 2TB and Codex Compact Drive Express 1TB, depending on recording format and codec.

Frame Rates and Shutter:

Sensor Frame Rate Range: 0.75–660 fps

Shutter Type: Electronic shutter

Shutter Angle: 5°–356°

Shutter Speed: 1 second to 1/8000 second

Maximum Frame Rate: Up to 330 fps in supported recording modes while maintaining full dynamic range; up to 660 fps using Sensor Overdrive in compatible modes.

Maximum frame rates depend on resolution, recording codec, media and software license configuration.

Lens Mounts:

ARRI LPL Mount (LBUS)

ARRI PL Mount (LBUS)

ARRI PL Mount (Hirose)

ARRI EF Mount (LBUS)

Leitz M Mount for ARRI

ARRI PL-to-LPL Adapter

Flange Focal Depth: 44 mm for LPL mount; 52 mm for PL mount.

Lens Data: ARRI LDS support, depending on lens mount and lens configuration.

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)

Fixed optical low-pass, UV and IR filtration.

Viewfinder and Monitoring:

Viewfinder Model: ARRI MVF-2

Viewfinder Type: OLED electronic viewfinder with flip-out LCD monitor

OLED Resolution: 1920 × 1080 pixels

LCD Monitor Size: 4 inches

Diopter Adjustment: -5 to +5 diopters

Additional Monitoring: Compatible with ARRI CCM-1 7-inch Camera Control Monitor

Features: Camera control, menu access, playback and image monitoring.

Video Outputs and Connectivity:

2 × independent 12G-SDI outputs (BNC)

SDI formats supporting HD, 2K, UHD and 4K monitoring, depending on configuration

Built-in Wi-Fi with 2.4 GHz and 5 GHz support

Ethernet connectivity

Built-in ARRI White Radio for compatible wireless camera and lens control

TC connector for timecode input/output

SYNC IN for Genlock synchronization

RET IN for return video

LBUS connector for lens motors and accessories

SERIAL connector for compatible distance-measuring devices

USB-C for user setups and look files

Rear interface for compatible camera modules and battery adapters

Built-in side display for camera status and control

Power Requirements:

Power Input: 1 × LEMO 8-pin PWR connector

Additional Power Input: Rear battery interface via compatible battery adapter

Input Voltage: 20.5–33.6 V DC

Power Consumption: Approximately 90 W with camera body and MVF-2 viewfinder, depending on configuration.

Power Outputs:

1 × RS (Fischer 3-pin) for 24 V accessory power, start/stop and shutter pulse

1 × 12 V (LEMO 2-pin) for 12 V accessory power

1 × LBUS (LEMO 4-pin) for lens motors and 24 V power

1 × AUDIO (LEMO 6-pin) for balanced stereo line input and 12 V accessory power

1 × ETH (LEMO 10-pin) for remote control, service and 24 V accessory power

Optional ARRI PDM-1 Power Distribution Module provides additional accessory power outputs.

Audio:

Built-in microphones for scratch audio

1 × LEMO 6-pin balanced stereo line input

Audio Recording: 4-channel linear PCM, 24-bit, 48 kHz

Audio Output: Embedded SDI audio and headphone monitoring via MVF-2

Optional AEM-1 Audio Extension Module for additional audio inputs and professional audio connectivity.

Image Processing and Color Science:

ARRI REVEAL Color Science

ARRI ALEV 4 CMOS Sensor

ARRI Wide Gamut 4 (AWG4)

ARRI LogC4

ARRI Color Engine 4 (ACE4)

ARRI Look File ALF-4

Custom 3D LUT support

ASC CDL parameters: slope, offset, power and saturation

ARRI Look Library support

ARRI Textures support

Monitoring transforms include Rec. 709, Rec. 2020, Rec. 2100 PQ and Rec. 2100 HLG, depending on configuration.

Operating Conditions:

Operating Temperature: –20°C to +45°C

When operating above 120 fps, or above 90 fps in 4.6K and 3.3K sensor modes: –20°C to +40°C

Maximum Relative Humidity: 95%, non-condensing

Storage Temperature: –30°C to +70°C

Environmental Protection: IP51, with sealed electronics providing dust and splash resistance

Sound Level: Less than 20 dB(A) at 30 fps when recording 4K 16:9 Apple ProRes 4444 XQ under specified ambient conditions.

Physical Dimensions and Weight:

Height: 147 mm / 5.8 in

Width: 152.5 mm / 6.0 in

Length: 203 mm / 8.0 in

Camera Body Weight: Approximately 2.9 kg / 6.4 lb, with three antennas and LPL mount (LBUS), excluding additional accessories.

Advanced Features:

High-Speed Recording: Up to 660 fps in supported modes

Sensor Overdrive: Enables higher frame rates in compatible recording modes

ARRICORE Codec: Efficient high-quality recording with reduced data rates

Pre-recording: Available with the appropriate license

Open Gate Recording: 4.6K 3:2

Anamorphic Recording: Multiple sensor modes and in-camera de-squeeze options

Wi-Fi Enhancements: 5 GHz support, mesh-network roaming and automatic reconnection to known networks

Side Display: Camera status and control without requiring the viewfinder

Hot-Pluggable Viewfinder: Supports compatible viewfinder operation during production

Modular Expansion: Compatible with PDM-1, AEM-1 and other ARRI accessories.

Software Licenses:

ALEXA 35 Xtreme Premium License

ALEXA 35 Xtreme ARRIRAW License

ALEXA 35 Xtreme Open Gate/Anamorphic License

ALEXA 35 Xtreme High-Speed License

ALEXA 35 Xtreme Pre-record License

ALEXA 35 Xtreme Look License

ALEXA 35 Xtreme Multicam License (optional)

ALEXA 35 Xtreme High Frame Rate SDI License

Certain recording formats, codecs, high-speed functions, anamorphic features and advanced image-processing options require the appropriate licenses.