

TECHNICAL DETAILS

Sensor Type	Super 35 format ARRI ALEV 4 CMOS sensor with Bayer pattern color filter array				
Sensor Photosites and Size	4608 x 3164 Ø 33.96 mm / 1.337"				
Sensor Frame Rates	0.75 - 120 fps				
Project Frame Rates	23.976, 24, 25, 29.97, 30, 47.952, 48, 50, 59.94, 60 fps				
Weight	2.9 kg / 6.4 lbs (camera body with three antennas and LPL Mount (LBUS))				
Photosite Pitch	6.075 µm				
Sensor Modes	Active Image Area (Dimensions)	Image Circle Ø	Active Image Area (Photosites)	Recording Resolution (Pixel)	Max fps* (1TB / 2TB Drive)
4.6K 3:2 Open Gate	28.00 x 19.20 mm 1.102 x 0.756"	33.96 mm 1.337"	4608 x 3164	4.6K (4608 x 3164)	35 / 75 fps (ARRIRAW) 60 / 60 fps (Apple ProRes)
4.6K 16:9	28.00 x 15.70 mm 1.102 x 0.618"	32.10 mm 1.264"	4608 x 2592	4.6K (4608 x 2592) 4K (4096 x 2304)	45 / 75 fps (ARRIRAW) 75 / 75 fps (Apple ProRes)
4K 16:9	24.90 x 14.00 mm 0.980 x 0.551"	28.57 mm 1.125"	4096 x 2304	4K (4096 x 2304) UHD (3840 x 2160) 2K (2048 x 1152) HD (1920 x 1080)	55 / 120 fps (ARRIRAW) 100 / 100 fps (Apple ProRes) 120 / 120 fps (Apple ProRes) 120 / 120 fps (Apple ProRes)
4K 2:1	24.90 x 12.40 mm 0.980 x 0.490"	27.82 mm 1.095"	4096 x 2048	4K (4096 x 2048)	65 / 120 fps (ARRIRAW) 120 / 120 fps (Apple ProRes)
3.3K 6:5	20.22 x 16.95 mm 0.796 x 0.693"	26.38 mm 1.039"	3328 x 2790	3.3K (3328 x 2790) 4K 2.39:1 Ana. 2x (4096 x 1716)	55 / 100 fps (ARRIRAW) 75 / 75 fps (Apple ProRes) 90 / 90 fps (Apple ProRes)
3K 1:1	18.70 x 18.70 mm 0.737 x 0.737	26.45 mm 1.041"	3072 x 3072	3K (3072 x 3072) 3.8K 2:1 Ana. 2x (3840 x 1920)	55 / 100 fps (ARRIRAW) 90 / 90 fps (Apple ProRes) 100 / 100 fps (Apple ProRes)
2.7K 8:9	16.70 x 18.70 mm 0.656 x 0.738"	25.09 mm 0.988"	2743 x 3086	UHD 16:9 Ana. 2x (3840 x 2160)	100 / 100 fps (Apple ProRes)
2K 16:9 S16	12.40 x 7.00 mm 0.490 x 0.276"	14.24 mm 0.561"	2048 x 1152	2K (2048 x 1152)	120 / 120 fps (Apple ProRes)
Exposure Index	Adjustable from EI 160 - 6400 in 1/3 stops				
Dynamic Range	17 stops (2.5 more than with previous ALEXA cameras)				
Shutter	Electronic shutter, 5.0°- 356° or 1s - 1/8000s				
Recording Codecs	MXF/ARRIRAW MXF/Apple ProRes 4444 XQ MXF/Apple ProRes 4444 MXF/Apple ProRes 422 HQ				
Recording Media	Codex Compact Drive 1TB (CA08-1024), Codex Compact Drive 2TB (CB16-2048)				
Recording Modes	Standard real-time recording, Pre-recording				
Viewfinder Type	Multi Viewfinder MVF-2 with OLED viewfinder display (1920 x 1080) and 4" LCD flip-out monitor (800 x 400)				
Viewfinder Diopter	Adjustable from -5 to +5 diopters				
Color Output	Rec 709, Rec 2020, Rec 2100 PQ, Rec 2100 HLG, LogC4				
Look Control	ARRI Textures Custom color look (through ARRI Look File ALF4 or ARRI Look Library)				
White Balance	Manual and auto white balance, adjustable from 2000K to 11000K Color correction adjustable from -16 to +16 CC (1 CC corresponds to 035 Kodak CC values or 1/8 Rosco values)				

*Some Apple ProRes 4444 XQ formats have slightly lower maximum fps

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Filters	Four position built-in motorized ND filter: Clear, 0.6, 1.2, 1.8 Fixed optical low pass, UV, IR filter
Lens Squeeze Factors	1.00, 1.25, 1.30, 1.33, 1.50, 1.65, 1.80, 1.85, 2.00
Exposure and Focus Tools	False Color, Zoom, Aperture and Color Peaking
Audio Recording	4 channel linear PCM (24 bit, 48 kHz)
Image Outputs	2x VF custom CoaXPress connectors for MVF-2 viewfinder 2x 12G SDI (BNC) 422 1.5G HD, 422 3G HD, 444 3G HD, 422 6G UHD, 444 12G UHD
Interfaces	1x LBUS (LEMO 4-pin) for lens motors, daisy chainable 1x SERIAL (LEMO 4-pin) for distance measuring accessories 1x TC (LEMO 5-pin) for timecode In/Out 1x ETH (LEMO 10-pin) for remote control and service 1x SYNC IN (BNC) for Genlock synchronization 1x RET IN (BNC, switchable on SDI 2) 1x USB-C for user setups, look files etc 1x Rear Interface (18-pin Pogo) 1x Top Interface (5-pin Pogo)
Audio Inputs	1x AUDIO (LEMO 6-pin) for balanced stereo line in (line input max. level +24 dBu correlating to 0 dBFS) Two built-in microphones for scratch audio With Audio Extension Module AEM-1: additional 3x TA3 connectors (MIC/Line, +48 V, AES)
Audio Outputs	1x 3.5 mm stereo headphone connector (on MVF-2) 2x SDI (embedded audio)
Power Inputs	1x PWR (LEMO 8-pin) 1x BAT (camera rear interface / battery adapter) 20.5 - 33.6 V DC
Power Outputs	1x RS (Fischer 3-pin) for 24 V accessory power out, start/stop and shutter pulse 1x 12 V (LEMO 2-pin) for 12 V accessory power out 1x LBUS (LEMO 4-pin) for lens motors & 24 V power out, daisy-chainable 1x AUDIO (LEMO 6-pin) for balanced stereo line in and 12 V accessory power out 1x ETH (LEMO 10-pin) for remote control, service and 24 V accessory power out With Power Distribution Module PDM-1: additionally 4x 24 V, 2x 12 V and 1x D-Tap
Remote Control Options	Camera Companion App ARRI Electronic Control System (ECS) Web-based remote control from phones, tablets and laptops via WiFi & Ethernet Camera Access Protocol (CAP) via WiFi & Ethernet GPIO interface for integration with custom control interface
Wireless Interfaces	Built-in WiFi module (IEEE 802.11b/g) Built-in White Radio for ARRI ECS lens and camera remote control
Lens Mounts & Adapters	ARRI LPL Mount (LBUS) ARRI PL-to-LPL Adapter ARRI PL Mount (LBUS) ARRI PL Mount (Hirose) ARRI EF Mount (LBUS) Leitz M Mount for ARRI
Flange Focal Depth	LPL Mount: 44 mm , PL mount: 52 mm
Power Consumption	~ 90 W (Camera body and MVF-2)
Measurements (HxWxL)	147 x 152.5 x 203 mm / 5.8 x 6.0 x 8.0" (camera body with LPL lens mount)
Operating Temperature	-20° C to +45° C / -4° F to +113° F @ 0-95% RH
Storage Temperature	-30° C to +70° C / -22° F to +158° F
IP Rating	IP 51
Sound Level	< 20 dB(A) at 30 fps, recording 4K 16:9 - UHD, Apple ProRes 4444 XQ, ≤ +30° ambient temperature
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