

2.4 Technical Data

Sensor Type	Super 35 format ARRI ALEV 4 CMOS sensor with Bayer pattern color filter array
Sensor Photosites and Size	4608 x 3164 27.99 x 19.22 mm / 1.102 x 0.757" Ø 33.96 mm / 1.337"
Sensor Frame Rates	0.75 - 660 fps
Project Frame Rates	23.976, 24, 25, 29.97, 30, 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

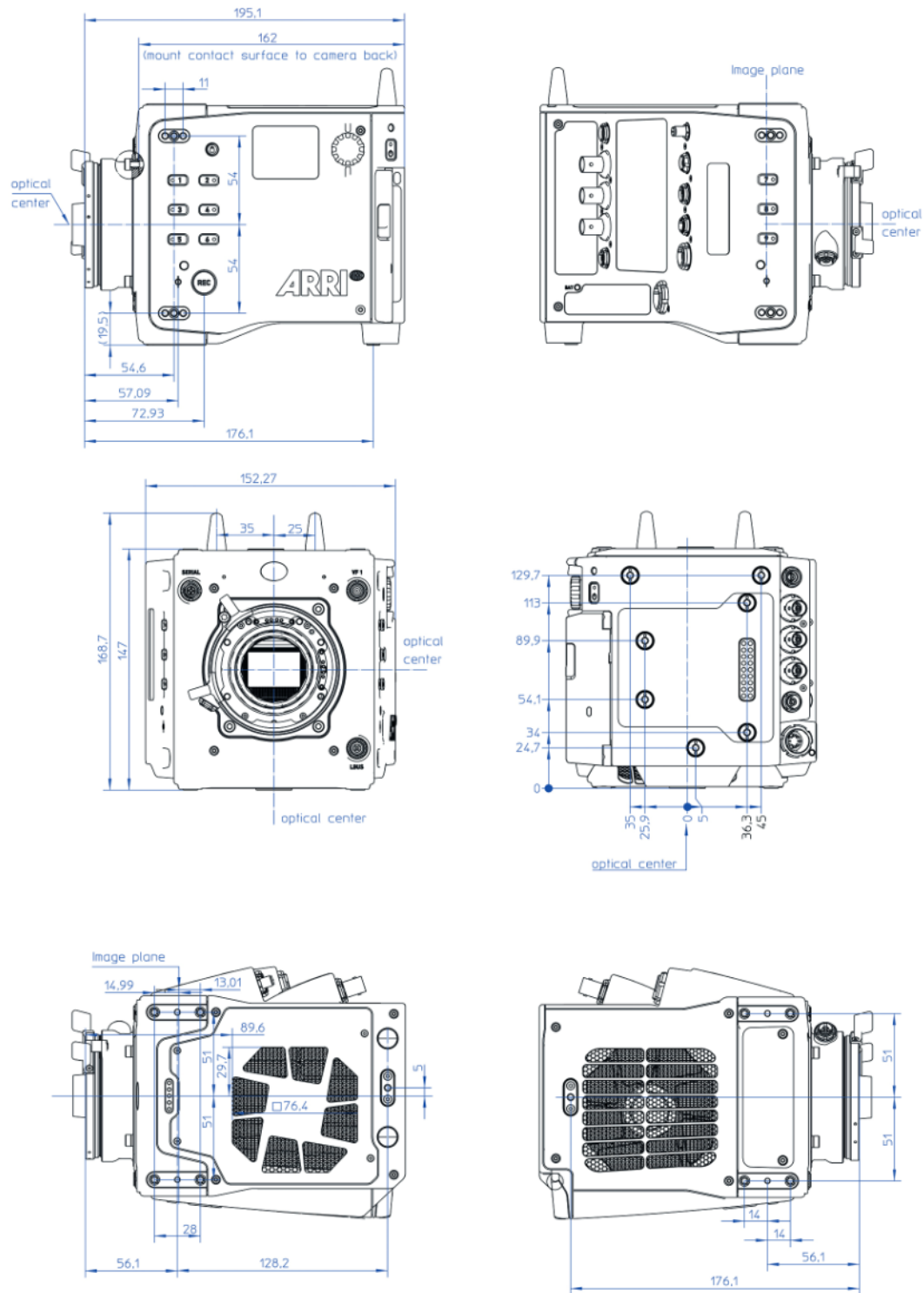
Exposure Index	Adjustable from EI 160 - 6400 in 1/3 stops
Dynamic Range	17 stops
Shutter	Electronic shutter, 1.0°- 356° or 1s - 1/8000s
Recording Codecs	MXF/ARRIRAW MXF/ARRICORE MXF/Apple ProRes 4444 XQ MXF/Apple ProRes 4444 MXF/Apple ProRes 422 HQ
Recording Media	Codex Compact Drive 1TB (CA08-1024), 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 480)
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)
Filters	Four position built-in motorized ND filter: Clear, 0.6, 1.2, 1.8. Fixed optical low pass, UV, IR filter
Lense 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, 422 12G UHD, 444 12G UHD

Interfaces	1x LBUS (LEMO 4pin) for lens motors, daisy chainable 1x SERIAL (LEMO 4pin) for distance measuring accessories 1x TC (LEMO 5pin) for timecode In/Out 1x ETH (LEMO 10pin) 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 6pin) 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 AUDIO (LEMO 6pin) for balanced stereo line in (line input max. level +24 dBu correlating to 0 dBFS)
Power Inputs	1x PWR (LEMO 8-pin) 1x BAT (camera rear interface / battery adapter) 20.5 V - 33.6 V DC
Power Outputs	1x RS (Fischer 3pin) for 24 V accessory power out, start/stop and shutter pulse 1x 12 V (LEMO 2pin) for 12 V accessory power out 1x LBUS (LEMO 4pin) for lens motors & 24 V power out, daisy-chainable 1x AUDIO (LEMO 6pin) for balanced stereo line in and 12 V accessory power out 1x ETH (LEMO 10pin) 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 interfaces
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	~ 81 W (Camera body and MVF-2 typical, max. 310 W with all accessories)

Dimensions (HxWxL)	147 x 152.5 x 203 mm / 5.8 x 6.0 x 8.0" (camera body with LPL lens mount)
Permitted Operating Temperature	General: -20° C to +45° C / -4° F to +113° F When using more than 120 fps (all sensor modes) or 90 fps or more in 4.6K 3:2 OG or 3.3K 6:5: -20° C to +40° C / -4° F to +104° F
Permitted Storage Temperature	-30° C to +70° C / -22° F to +158° F
IP Rating	IP 51
Sound Level	< 20 dB(A) at 30fps, recording 4K 16:9 - UHD, Apple ProRes 4444 XQ, ≤ +30° C ambient temperature
Licenses	Highspeed, ARRIRAW, OpenGate / Anamorphic, Look, Pre-recording, Premium, Live Cine Plus

Sensor Modes	Active Image Area (Dimensions)	Image Circle (Ø)	Recording Resolution (Pixel)	Maximum Frame Rate (Standard / with Sensor Overdrive)		
				Codec	1 TB	2 TB
4.6K 3:2 Open Gate	28.0 x 19.2 mm 1.102 x 0.756"	33.9 mm 1.337"	4.6K (4608 x 3164)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	80 / 80 35 120 90 60	120 / 165 80 120 120 120
4.6K 16:9	28.0 x 15.7 mm 1.102 x 0.618"	32.1 mm 1.264"	4.6K (4608 x 2592)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	100 / 110 45 150 110 70	150 / 200 95 150 150 140
4K 16:9	24.9 x 14.0 mm 0.980 x 0.551"	28.6 mm 1.125"	4K (4096 x 2304)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	125 / 125 55 150 135 90	150 / 210 125 150 150 150
3.8K 16:9	23.3 x 13.1 mm 0.918 x 0.516"	26.8 mm 1.054"	UHD (3840 x 2160)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	145 / 145 65 150 150 105	150 / 240 140 150 150 150
3.8K 2.39:1	23.3 x 9.8 mm 0.918 x 0.386"	25.30 mm 0.998"	3.8K (3840 x 1608)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	195 / 195 85 240 210 140	240 / 240 190 240 240 240
3.3K 6:5	20.22 x 16.95 mm 0.796 x 0.693"	26.4 mm 1.039"	3.3K (3328 x 2790)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	120 / 125 55 120 120 90	120 / 210 120 120 120 120
2K 16:9 S16	12.4 x 7.0 mm 0.490 x 0.276"	14.2 mm 0.561"	2K (2048 x 1152)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	330 / 505 230 330 330 330	330 / 660 330 330 330 330
HD 16:9 S16	11.7 x 6.6 mm 0.461 x 0.260"	13.43 mm 0.528"	HD (1920 x 1080)	ARRICORE ARRIRAW ProRes 422 HQ ProRes 4444 ProRes 4444 XQ	330 / 590 260 330 330 330	330 / 660 330 330 330 330

2.5 Dimensional Drawings



Camera body with LPL lens mount. All dimensions in mm. Not to scale.