

28.3 Technical Data

Sensor Type	Large Format ARRI ALEV III (A2X) CMOS sensor with Bayer pattern color filter array	
Sensor Size	36.70 x 25.54 mm / 1.444 x 1.005" Ø 44.71 mm / 1.760"	
Photosite Pitch	8.25 µm	
Sensor Frame Rates	0.75 - 90 fps	
Sensor Active Image Area (photosites)	LF Open Gate ProRes 4.5K:	4448 x 3096
	LF Open Gate ARRIRAW 4.5K:	4448 x 3096
	LF 16:9 ProRes HD:	3840 x 2160
	LF 16:9 ProRes 2K:	3840 x 2160
	LF 16:9 ProRes UHD:	3840 x 2160
	LF 16:9 ARRIRAW UHD:	3840 x 2160
	LF 2.39:1 ProRes 4.5K:	4448 x 1856
	LF 2.39:1 ARRIRAW 4.5K:	4448 x 1856
Sensor Active Image Area (dimensions)	LF Open Gate ProRes 4.5K:	36.70 x 25.54 mm / 1.445 x 1.006"
	LF Open Gate ARRIRAW 4.5K:	36.70 x 25.54 mm / 1.445 x 1.006"
	LF 16:9 ProRes HD:	31.68 x 17.82 mm / 1.247 x 0.702"
	LF 16:9 ProRes 2K:	31.68 x 17.82 mm / 1.247 x 0.702"
	LF 16:9 ProRes UHD:	31.68 x 17.82 mm / 1.247 x 0.702"
	LF 16:9 ARRIRAW UHD:	31.68 x 17.82 mm / 1.247 x 0.702"
	LF 2.39:1 ProRes 4.5K:	36.70 x 15.31 mm / 1.445 x 0.603"
	LF 2.39:1 ARRIRAW 4.5K:	36.70 x 15.31 mm / 1.445 x 0.603"
Recording File Container Size (pixel)	LF Open Gate ProRes 4.5K:	4480 x 3096
	LF Open Gate ARRIRAW 4.5K:	4448 x 3096
	LF 16:9 ProRes HD:	1920 x 1080
	LF 16:9 ProRes 2K:	2048 x 1152
	LF 16:9 ProRes UHD:	3840 x 2160
	LF 16:9 ARRIRAW UHD:	3840 x 2160
	LF 2.39:1 ProRes 4.5K:	4480 x 1856
	LF 2.39:1 ARRIRAW 4.5K:	4448 x 1856
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	MXF/ARRIRAW MXF/Apple ProRes 4444 XQ MXF/Apple ProRes 4444 MXF/Apple ProRes 422 (HQ)	
Recording Media	Codex Compact Drive™	

Recording Frame Rates	LF Open Gate ProRes 4.5K:	0.75 - 40 fps
	LF Open Gate ARRIRAW 4.5K:	0.75 - 40 fps
	LF 16:9 ProRes HD:	0.75 - 90 fps
	LF 16:9 ProRes 2K:	0.75 - 90 fps
	LF 16:9 ProRes UHD:	0.75 - 60 fps
	LF 16:9 ARRIRAW UHD:	0.75 - 60 fps
	LF 2.39:1 ARRIRAW 4.5K:	0.75 - 60 fps
Recording Modes	Standard real-time recording	
Viewfinder Type	Multi Viewfinder MVF-2 with 4,0" flip-out monitor and CoaXPress interface	
Viewfinder Technology	OLED viewfinder display LCD flip-out monitor	
Viewfinder Resolution (pixel)	1920 x 1080	
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)	
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 FSND filters 0.6, 1.2, 1.8	
	Fixed optical low pass, UV, IR filter	
Image Outputs	1x proprietary signal output for MVF-2 viewfinder on VF CoaXPress connector	
	2x SDI outputs on BNC connectors, both outputs carry uncompressed video with embedded audio and metadata.	
	SDI 1:	HD only, Processed or Clean, with or without a look file applied 1.5G 422 HD (SMPTE ST292-1, up to 30 fps, p or psf) 3G 422 HD (SMPTE ST425-1, up to 60 fps, p) 3G 444 HD (SMPTE ST425-3, up to 30 fps, p)
	SDI 2:	HD or UHD, Clean only, with or without a look file applied, or SDI 1 clone 1.5G 422 HD (SMPTE ST292-1, up to 30 fps, p or psf) 3G 422 HD (SMPTE ST425-1, up to 60 fps, p) 3G 444 HD (SMPTE ST425-3, up to 30 fps, p) 6G 422 UHD (SMPTE ST2081-10, up to 30 fps, p)
	"Clean" is an image without surround view or overlays (status, false color, zebra, frame-lines, etc.), "Processed" is an image with surround view and overlays.	
Lens Squeeze Factors	1.00, 1.25, 1.30, 1.50, 1.65, 1.80, 2.00	
Exposure and Focus Tools	False Color, Zebra, Zoom, Aperture and Color Peaking	
Audio Input	1x LEMO 6pin balanced stereo line in (Line input max. level +24dBu correlating to 0dBFS)	
	Built-in microphones for scratch audio	
Audio Output	SDI (embedded)	
	3.5 mm Headphones out on MVF-2	
Audio Recording	4 channel linear PCM (24 bit, 48 kHz)	

Remote Control Options	MVF-2 viewfinder can act as wired remote control with 10m/33ft cable, web-based remote control from smart phones, tablets and laptops via WiFi & Ethernet, Camera Access Protocol (CAP) 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, SXU-1 hand-unit with control over one lens axis, OCU-1 and Master Grip control of lens and user buttons
Interfaces	1x LEMO 5pin LTC Timecode In/Out 1x LEMO 10pin Ethernet for remote control and service 1x BNC SYNC IN 1x LEMO 7pin EXT multi purpose accessory interface w. RS pin and 24V power output 1x LEMO 4pin LBUS (on lens mount) for lens motors, daisy chainable 1x USB 2.0 in media bay (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	LPL mount with LBUS connector PL to LPL adapter Leitz Cine Wetzlar M mount
Flange Focal Depth	LPL mount: 44 mm With PL to LPL adapter: 52 mm
Power Input	1x LEMO 8pin (11.0 - 34.0 V DC)
Power Consumption	Around 69 W when recording ARRIRAW LF 16:9 UHD at 24 fps with MVF-2 attached
Power Outputs	1x Fischer 3pin 24V RS 1x LEMO 2pin 12V 1x LEMO 7pin EXT 24V 1x LEMO 4pin LBUS 24V (on lens mount) 1x LEMO 6pin AUDIO 12V 1x LEMO 10pin ETH 24V
Measurements (HxWxL)	140 x 143 x 188 mm / 5.5 x 5.6 x 7.4" (camera body with LPL lens mount)
Weight	~ 2.7 kg / ~ 6 lbs (camera body with LPL 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	-

28.4 Declarations of Conformity

Approval Information

The products offered by ARRI are approved for use in a number of countries. Product-specific information on approval can be found in the respective operating instruction manuals. Import and use in countries other than those mentioned in the respective operating instructions may be subject to legal, regulatory, or official requirements and regulations. Before the products are imported into these countries or used in these countries, compliance with the existing legal, regulatory, and administrative requirements and regulations must be ensured. It is the importer's or the user's responsibility, prior to importation or use, to inform themselves of the applicable legal, regulatory, and administrative requirements and regulations and to ensure compliance with these requirements and regulations, including applying for and obtaining any necessary approvals or registrations.