AMIRA LIVE

THE CINEMATIC SUPER 35 LIVE TV CAMERA

Designed specifically for live, multi-camera applications, AMIRA Live features internal cabling between the camera body and the 1820 Fiber Camera Adapter. The resulting camera configuration is clean, uncluttered, reliable, and perfect for live broadcast environments, especially in tandem with the ARRI Viewfinder Multicam Monitor VMM-1.
With its cable-less design, AMIRA Live has more in common with the system cameras typically used for multi-camera broadcasts, but unlike those cameras, AMIRA Live features a Super 35 format ARRI sensor. This unique combination of system camera efficiencies and truly cinematic images, with shallow focus, rich textures, and natural colors, puts AMIRA Live in a class of its own.

For more information visit
www.arri.com/amira-live

ARRI

AMIRA Live

Main Features:

- ARRI's legendary ALEV III Super 35 sensor – the same sensor design as used in all ALEXA cameras
- Unsurpassed overall image quality and sophisticated ARRI color science
- Natural, flattering skin tones
- Highest dynamic range of over 14 stops
- Live broadcast images on a par with high-end movies, TV series, and OTT productions
- Record in-camera for post, finishing, or slow-motion effects, while simultaneously transmitting live HD or UHD signals
- Clean configuration without external cables between the camera & the fiber backend
- Versatile 10-inch Viewfinder Multicam Monitor VMM-1

Technical Data:

Sensor Type	Super 35 mm format ARRI ALEV III CMOS sensor with Bayer pattern color filter array	
Sensor Size	26.40 x 14.85 mm / 1.039 x 0.585", Ø 30.29 mm / 1.193"	
Photosite Pitch	8.25 µm	
Sensor Frame Rates	0.75 - 200fps	
Sensor Active Image Area (photo sites)	S16 HD: HD: 2K: 3.2K: 4K UHD: ARRIRAW 16:9 2.8K:	1600 x 900 2880 x 1620 2868 x 1612 3200 x 1800 3200 x 1800 2880 x 1620
Sensor Active Image Area (dimensions)	S16 HD: HD: 2K: 3.2K: 4K UHD: ARRIRAW 16:9 2.8K:	13.20 x 7.43 mm / 0.520 x 0.292" 23.76 x 13.37 mm / 0.935 x 0.526" 23.66 x 13.30 mm / 0.932 x 0.524" 26.40 x 14.85 mm / 1.039 x 0.585" 26.40 x 14.85 mm / 1.039 x 0.585" 23.76 x 13.37 mm / 0.935 x 0.526"
Recording File Container Size (pixels)	S16 HD: HD: 2K: 3.2K: 4K UHD: ARRIRAW 16:9 2.8K:	1920 x 1080 1920 x 1080 2048 x 1152 3200 x 1800 3840 x 2160 2880 x 1620
Recording File Image Content (pixels)	ProRes S16 HD: ProRes HD: ProRes 2K: ProRes 3.2K: ProRes 4K UHD: ARRIRAW 16:9 2.8K:	1920 x 1080 1920 x 1080 2048 x 1152 3200 x 1800 3840 x 2160 2880 x 1620
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 1 s - 1/8000 s	
Recording Formats	MXF/ARRIRAW, ProRes 4444 XQ, ProRes 4444, ProRes 422 (HQ), ProRes 422, ProRes 422 (LT), MPEG-2 HD	
Recording Media	CFast 2.0 Cards	
Recording Frame Rates	ProRes HD: ProRes S16 HD: ProRes 2K: ProRes 3.2K: ProRes UHD: MFX/ARRIRAW 16:9 2.8K: MPEG-2 HD:	0.75 - 200 fps 0.75 - 200 fps 0.75 - 200 fps 0.75 - 60 fps 0.75 - 60 fps 0.75 - 48 fps 23.976 - 59.94 fps
Recording Modes	Standard real-time recording, Pre-recording, Intervalometer, Stop Motion	
Color Output	Rec 709, Rec 2020, Log C, Custom Look (ARRI Look File ALF-2)	

AMIRA Live

Technical Data:

Look Control	Import of custom 3D LUT ASC CDL parameters (slope, offset, power, saturation) Knee, gamma, saturation, black gamma, saturation by hue Support of ARRI Look Library
White Balance	Manual and auto white balance, adjustable from 2,000 K to 11,000 K in 10 K 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 ND filters 0.6, 1.2, 2.1, Fixed optical low pass, UV, IR filter
Lens Squeeze Factor	1.00, 1.30
Exposure and Focus Tools	False Color, Zebra, Zoom, Waveform, Aperture and Color Peaking
Audio Input	2x XLR 3pin Mic/Line Input with 48 V Phantom Power, switchable to AES3 1x XLR 5pin Mic/Line Input with 48 V Phantom Power (Line input max. level +24 dBu correlating to 0 dBFS) Bluetooth whisper track
Audio Output	3.5 mm stereo headphone jack, Bluetooth audio, SDI (embedded)
Audio Recording	4 channel linear PCM, 24 bit 48 kHz, 1 channel Bluetooth whisper track
Remote Control Options	Web-based remote control from phones, tablets and laptops via WiFi & Ethernet Camera Access Protocol via Ethernet & WiFi GPIO interface for integration with custom control interfaces
Interfaces	1 x D-SUB 24W7 (LTC Timecode, Ret/Sync In, Genlock, Ethernet, Power In) 1 x LEMO 6pin EXT multi purpose accessory interface 1 x Hirose 12pin (on PL lens mount) 2 x USB 2.0 (for user setups, look files etc)
Wireless Interface	Built-in WiFi module (IEEE 802.11b/g), Built-in Bluetooth module
Lens Mount	PL mount with Hirose connector and LDS EF mount B4 mount with Hirose connector ARRI LPL Mount (LBUS) connector Leitz Cine Wetzlar M mount
Flange Focal Depth	PL mount 52 mm, LPL mount 44 mm
Power Outputs	1 x Fischer 3pin 24 V RS 1 x LEMO 2pin 12 V 1 x Hirose 4pin 12 V 1 x LEMO 6pin EXT 24 V
Measurements (HxWxL)	182 x 147 x 374 mm / 7.2 x 5.8 x 14.7" (camera body with 1820 Fiber Adapter and PL lens mount)
Weight	~ 5.2 kg / ~ 11.5 lb (camera body with 1820 Fiber Adapter and PL lens mount)
Storage Temperature	-30° C to +70° C / -22° F to 158° F
Software License Keys	AMIRA Advanced, AMIRA Premium, AMIRA 4K UHD, AMIRA ARRIRAW, ARRI Look Library (weekly or permanent)

Fiber System for AMIRA Live

Main Features:

- Integrated FCA (internal cabling between the camera body and the fiber backend)
- All-in-one base station
- Transmission of live HD or UHD/4K signals via fiber up to two 2 km including power
- UHD support with 4 x 3G and 2 x 12G SDI single link outputs
- 1U height and 19" rack frame
- Standard BNC connectors
- Standard interface for intercom (prod/eng), tally (red/green), RCP control, audio (analog and AES) genlock, and timecode
- Modular FCA (can be mounted on V-Mount or Gold Mount)

Technical Data:

Mechanics/Power	SMPTE 311M Cable Length	2 km
	Camera Power	100 W Camera Power (150 W total internal power)
	Fiber Adaptor Weight	integrated
	Fiber Adaptor Volume	integrated
	Base Station Weight	2.1 kg
	Base Station Dimensions (H x W x L)	43 x 429 x 275 mm
	Fiber Adaptor Dimensions (H x W x L)	integrated
	Base Station Volume	4644 cm^3
Base Station Video Out	QL3G 4K@60P, DL3G, 2 x SL3G	4 x BNC
	2 x SL12G, DL6G, 2 x SL6G & 2x SL3G	2 x 12G BNC
	2 x 1.5G Monitor Out	2 x BNC
	2 x Composite Video Out	2 x BNC
Base Station Video In	1.5G Ret Video & Sync	1 x BNC
	Analogue Genlock Black/Burst, Tri Level (Loop through)	2 x BNC
	Composite Return For QTV/Teleprompter	1 x BNC
Base Station Audio Out	Audio on all Programme Video Out	Embedded
	Analogue Audio	XLR5 Male
	2 x AES Audio	2 x BNC
Base Station I/O	LTC Timecode In	1 x BNC
	RS232/RS422/RS485 (Accessories/ Cam/Lens Control)	2 x 9W-D & 1 x 15W-D
	Ethernet Cam Control	2 x RJ45
	Intercom PD/ENG (2 Channels) & Call	1 x 15W-D
	Red & Green Tally	1 x 9W-D
Fiber Adaptor In	External 12-17 V IN, Camera Powered Locally	PWR In - Lemo
Fiber Adaptor Out	2 x Red & Green Tally	12W HR-30 & 10W HR-30
	Composite Video QTV/Teleprompt Out	12W HR-30 or 10W HR-30
	3G SDI Monitor Out	BNC
	+12 V VF Power 12 V / 24 W Viewfinder Power Out	12 W HR-30
	Program Audio AES Out	10 W HR-30
Fiber Adaptor I/O	RS232/RS422/RS485 (Accessories/Cam/ Lens Control)	10 W HRS, 12 W HRS & 6 W HRS
	Intercom PD & ENG (2 Channels)	2 x 6 W HRS

Viewfinder Multicam Monitor VMM-1

Main Features:

- 10" LCD monitor (HD, 300 CD/m2, 1000:1)
- Connects directly to the camera viewfinder interface or can be daisy-chained with the CCP-1
- Includes controls for contrast, color, backlight, peaking
- Physical on/off switch for the frontside tally
- Two programmable user buttons for camera functions
- Display indicating camera number
- 3G SDI and tally GPI input
- Monitor bracket and MYS-1 yoke

Technical Data:

LCD Type	Active Matrix Liquid Crystal Display (AM-LCD) Amorphous silicon TFT (Thin Film Transistor) LED Backlight
Aspect Ratio	16:9
Active Screen Size	220.32 x 123.93 mm / 16.063 x 12.047" Ø 508 mm / 20.1"
Screen Resolution	1920 x 1080 pixel
Pixel Arrangement	B+G+R vertical stripe
Pixel Pitch	0.11475 x 0.11475 mm / 0.0045" x 0.0045"
Pixel Density	221 ppi
Screen Luminance	300 cd/m2 (max.) Backlight Dimming: 100 to 0%
Luminance Uniformity Color	White non-uniformity <= 30%
Color Depth	16 Mio. colors
Response Time	T_{on} + T_{off} (10% to 90% to 10%) 25 ms (typical)
Viewing Angle	Typical viewing angle CR >= 10:1 Horizontal ±85° Vertical ±85°
Contrast Ratio	1000:1 (typical) in dark environment (at optimum viewing angle)
Power Input	1 x LEMO 2-pin (9.0 - 32.0 V DC)
Measurements (H x W x L)	200 x 255 x 144 mm / 7.87 x 10.04 x 5.67" (without Parasol)
Weight	~ 2.2 kg / ~ 4.85 lbs (without Parasol)
Operating Temperature	-20° C to +50° C / -4° F to +122° F @ 5% to 95% relative humidity, non condensing at 38° C wet bulb temperature
Vibration	MIL-STD 810 10-57Hz / 0.076mm 57-500Hz / 9.8m/s2 (BTM)
Shock	MIL-STD 810 ± 10G/11ms half sine (BTM)
EMI / EMC	CE / FCC

Skaarhoj RCP V2

Main Features:

- Next-generation remote control panel
- Combines classical RCP handling with state-of-the-art technology
- Fully configurable
- Full replication of Sony RCP usage
- Supports ARRI CAP protocol, controls various camera functions not covered by regular RCPs such as:
    - Rec start/stop,
    - Playback start/stop,
    - Load and store looks, setup files, and more

Technical Data:

Dimensions (H x W x L)	72 x 355 x 102 mm
Power consumption	6.19 W
Weight	1,152 Kg
Electrical Connections	
Ethernet Control	1 x RJ 45 LAN: 100 mbps
Power Input	External Power supply or PoE (48V/IEEE 802.3af)
Programming Port	Micro-USB
Tally IN / PV OUT	1 x Sub-D 9P, Female