

IV4K Series

V-mounted Camera Adapter Fiber Optical Solution

IV4K Series V-mounted camera adapter can connect Cine cameras and broadcast-level 4K shoulder-mounted camcorders to on-site production environments, supporting up to 2 x 12G-SDI video, 2 x Return, 2 x Intercom, 1 x Time Code, 1 x RS-422/485 Serial data, 1 x bi-directional Genlock, 1 Gigabit Ethernet, and 2 x Audio signals. It also provides dual-color Tally and long-distance power supply, meeting the requirements of live events such as sports events, concerts, and live studio programs.

The IV4K Series can be easily installed onto the battery mount of the camera-recorders, and supply power to far end devices via SMPTE hybrid cables. It can also achieve full data control by connected camera RCP, aligning with standard broadcast-level workflows and offering broadcasters a future-proof migration



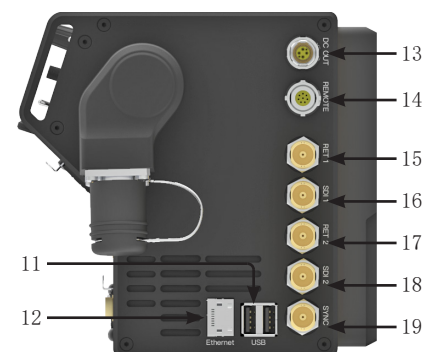
Feature

- Compatible with SONY, Canon, ARRI Cine camera and Skaarhoj, Cyanview remote control panels
- Standard V-mounted battery, easy installation and removal, reliable data connection and control
- Supply power to remote devices up to 1 km via SMPTE Hybrid cable
- Provide the same human-machine interface as broadcast studio cameras, simple and clear, easy to operate
- Support Return, Sync, Gigabit Ethernet, Intercom, Time code, dual-colour Tally and 15V/5V power supplies for other add-ons.
- Switchable VF port can support Return video or PGM switching
- The IV4K Series control unit is a compact 2RU half-rack width chassis with four 12G-SDI outputs as standard and an optional four-channel analogue audio de-embedded output Convenient for system integration
- Independent video channels with re-clocking and cable equalization, compatible with SMPTE ST-2082, all input/output processing passed Pathological test

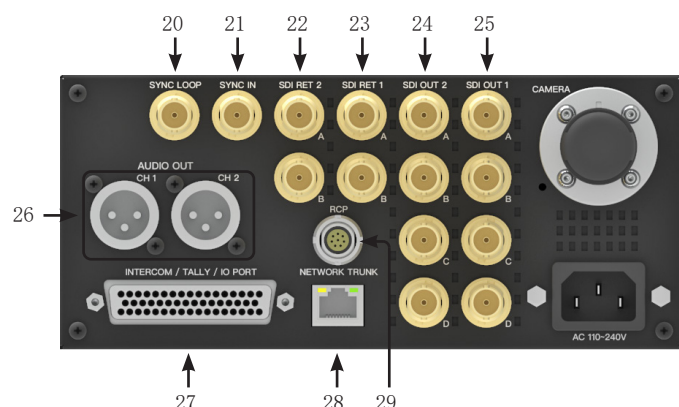
Connector



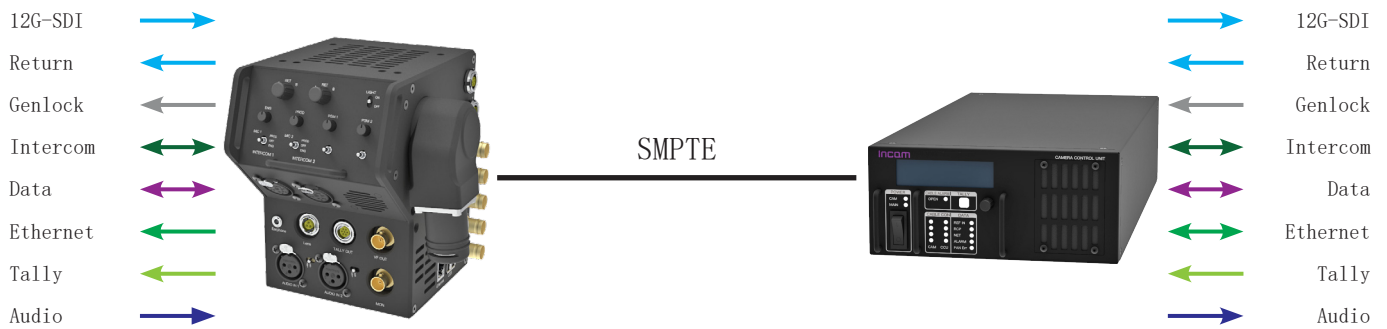
- 1) Return adjust
- 2) Volume
- 3) Mic on/off
- 4) Intercom
- 5) Tally out
- 6) Lens return
- 7) Audion in
- 8) Back light
- 9) VF
- 10) SDI loop
- 11) USB 5VDC out
- 12) Ethernet
- 13) 15VDC out
- 14) DATA out
- 15) RET 1
- 16) SDI 1 in
- 17) RET 2
- 18) SDI 2 in
- 19) Sync



- 20) Sync loop
- 21) Sync In
- 22) Return 2
- 23) Return 1
- 24) SDI 2 out
- 25) SDI 1 out
- 26) Audio out
- 27) INTERCOM/TALLY/IO
- 28) Ethernet
- 29) Data



System Configuration



Technical Specifications

Dimensions	Weight	Power Consumption	Operating Temperature	Operating Humidity
IVCA-4000: 145×167×92mm	IVCA-4000: about 1kg	AC 220V, 250W (Max)	0°C to +40°C	20% to 80%
IVCU-4000: 215×88×410mm	IVCU-4000: about 2.5kg			

SDI	Signal Format	Impedance	Amplitude	Cable Equalization
BNC, reclocking and equalization	SMPTE ST 2082-1, SMPTE ST 2081-1	75 Ω	800mV	50m, Belden 4794R

Jitter Align	Jitter Timing	Rising Time	Falling Time	DC Offset
0.10UI	0.58UI	38ps	37ps	0V±10mV

IVCA-4200/4000

SDI (IVCA-4200)	SDI (IVCA-4000)	SDI loop	Return	Sync
BNC (×2)	BNC (×1)	BNC (×1)	BNC (×2)	BNC (×1)

Cable	Headset	Ethernet	Lens	VF
SMPTE 304M (×1)	5 core (×2)	RJ45 (×1)	3 core (×1)	BNC (×1)

DC out	DC out	DC out	DATA	
8 core (×1) DC 12V 7A	7 core (×1) DC 12V 4A	USB-A (×1) 5V 2A	8 core (×1)	

IVCU-4200/4000

SDI	Return	SYNC	DATA	Cable
Max. BNC(×8)	BNC(×4), loop	BNC(×1), loop	8 core (×1)	SMPTE 304M (×1)

Intercom	Ethernet	INTERCOM/TALLY/IO		
5 core (×2)	RJ45 (×1)	DB-50(×1)		