



Camlinx Fibre systems are camera back systems for multiplexing broadcast quality video, audio, talk-back and control signals onto fibre-optic cables for transmission between a camera and a production facility. This gives greatly increased transmission distance compared to copper cable, increased data rates, reduced cable thickness and reduced susceptibility to EM interference.

A Camlinx system comprises of a Base unit which resides in the production area and a camera-mounted Head unit. The two units are connected by a fibre optic cable. Power is supplied to the head using either a hybrid fibre cable (fibre and copper conductors), battery or a local 12V DC supply. Camlinx systems meets all SMPTE requirements for the transmission of Broadcast video.

In addition to the original Camlinx1 system, there are now three additional systems as follows;

1. CamlinxII : Feature rich, high end system with full support for 3D applications.
2. Camlinx Lite : Smaller system, well suited to OB, fly-pack applications.
3. Camlinx Zero : Compact system aimed at Stadiums, auditoriums or unmanned.

Camlinx systems use single mode 9 μm fibre which permits cable lengths of many kilometres. Camlinx systems also support hybrid fibre cable (combined fibre and power) although transmission distance is greatly reduced with this cable type as losses down the power conductors reduce the voltage at the camera.

Fibre connectors from both Neutrik and Lemo are fully supported and the head units can be supplied with battery mounting plates from Anton Bauer, Sony V Lock and PAG.

There is full support for programme and talkback audio within the Camlinx range (without additional hardware with CamlinxII and Camlinx Lite). Audio input levels can be easily adjusted and there is support for Phantom power to microphones.

CamlinxII, like the older Camlinx1 system is fitted with a robust large capacity power supply which is able to supply 52V down the hybrid cable without the need for additional hardware.

All CamlinxII systems have a USB based upgrade facility which allows users to upgrade their systems in the field from a USB stick . This feature allows the user to incorporate new features and enhancements quickly and reliably.

Camlinx fibre systems are used by broadcasters worldwide and represent excellent value for money compared to competitor systems. Contact info@volamp.com for a quote.



CAMLINX FEATURE COMPARISON CHART	4k / 3G SDI	HD/SD SDI	CVBS	HDMI	AUDIO	TALKBACK	SYNC	TIMECODE	ETHERNET	SERIAL	Tally	GPIO	52V POWER	USB Update
CamlinxII														
Head to Base	2* ⁶	1	1	1* ¹	2	2		1	1	3		4		Y
Base to Head		1	1		2	2	1	1	1	3	1	4	Y	Y
Camlinx Lite														
Head to Base	1* ⁷	1		1	2* ²	2* ²	1* ³	1	1	2	1* ³			Y
Base to Head		1		1	2* ²	2* ²	1* ³	1	1	2	1* ³		Y* ⁵	Y
Camlinx Zero														
Head to Base		1					1* ³		1	2	1* ³			Y
Base to Head		1					1* ³		1	2	1* ³		Y* ⁵	Y
Camlinx1														
Head to Base		1			2* ⁴	1				2				
Base to Head		1			2* ⁴	1	1			2	1		Y	

- *1. Output from Base only
- *2. Audio channels, can be used for Talkback **OR** Programme Audio (with CAB-XLR53).
- *3. Single Bidirectional channel
- *4. Option – requires AEM (Audio Expansion Module)
- *5. Additional hardware required – PSU-52V / FAB / FPM.
- *6. These channels can be specified for 3G, HD/SD or unfitted when ordering.
One 4K SMPTE 425-3 link can be supported using these two 3G channels.
- *7. One 4K SMPTE 425-5 link can be supported.

	Accessory	Description	Part number
1	Fibre Power Module	Attaches to Lite or Zero. Powers the camera and head unit.	FPM
2	Fibre Adaptor Box	Converts LC to ruggedised connector with Power.	FAB
3	52V PSU	52V power supply, connects to FAB	PSU-52V
4	Audio Cable	Converts 5 pin XLR(plug) to 2 x 3 pin XLR(skt).	CAB-XLR53
5	Tally Module	Adds support for Tally2, LanC, Convergence	CAM2-TM
6	Talkback controller	Remote pod with volume control and PTT	CAM2-TBC
7	Cables	See http://www.volamp.com/cables.html	
8	Universal RCP	Camera remote control panel (RCP)	RCP-2050A

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Volamp Ltd is a privately owned UK company manufacturing a comprehensive range of fibre-optic, ethernet and video products. Established in 1983, VolAmp was a pioneer in the field of fibre and ethernet converter products for military, industrial and commercial markets before producing specialist fibre products for the broadcast market.