

User Manual



Important

Powering up the Camlinx II

The CamlinxII system takes up to 60 seconds to power up.

During this time, video and audio passed by the system is unreliable and should be ignored.

Disclaimer

All information contained in this manual is believed to be accurate and reliable. However, Volamp Ltd assumes no responsibility for its use. Since conditions of product use are outside our control, we make no warranties express or implied in relation thereto. We therefore cannot accept any liability in connection with any use of this information.

This product is not intended for use in life support appliances, devices or systems where a malfunction of the product can reasonably be expected to result in personal injury. Use of any Volamp product in such applications is expressly prohibited.

Whilst every effort has been made to ensure that this document is correct, errors can occur. If you find any errors or omissions please let us know, so that we can put them right



Laser Safety

Invisible laser radiation. Class 1 lasers are used in this product for fibre optic communications. The wavelength used is in the infra-red band so the light emitted cannot be seen. Although the levels are low and are classified as safe under all conditions of normal use, we recommend that users avoid looking directly into the beam.

Trademarks

Camlinx II is a trade mark of Volamp Limited. Opticalcon ® is a registered mark of Neutrik AG

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1. Introduction

Camlinx 2 is a camera back system for multiplexing video, audio, talkback and control signals onto fibre-optic cables for transmission between a camera and a production facility. This provides the following benefits;

Greatly increased transmission distance over copper based cable

increased bandwidth / data rates

reduced cable thickness/bulk

reduced susceptibility to EM interference

Systems can be ordered with support for all common connection systems including Neutrik and Lemo.

Unlike other camera back systems, cameras can be powered directly from the Camlinx2 head unit without the need for additional hardware or modules.

The Camlinx2 head unit can be powered from the cable (hybrid cable required) or it can be powered from a local 12Vdc supply at the head.

A Camlinx 2[™] 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 containing two fibres. Power is supplied to the head via a hybrid fibre cable (incorporates copper conductors as well as the fibres), battery or a local 12V DC supply.

The Camlinx2 system has 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.

Settings on the base and head units can be adjusted using three position switches mounted on the front of the units. These switches can be moved from left to right and also have a centre push position. When using these switches the user must press and hold the switch in the desired position until he sees the setting change on a display.

Both the head and the base have a small 22mm x 22mm colour display which is used to display system information. This display also incorporates a large push-button which is used during adjustment of system settings. In addition, the Base unit also has a 2×80 character display used to adjust overall system settings.

A basic Camlinx II system has a single bidirectional HD-SDI channel. Two additional 3G/HD/SD video channels can be added to the system at extra cost. With the addition of two extra video channels, the system can handle a full 3D 3G camera.

There are three models in the Camlinx II range. In addition to the main Camlinx II system coverd by this manual, there are two other Camlinx II systems for other applications ;

- 1. Camlinx II Lite
- 2. Camlinx II Zero

See website for further details.

1.1. Camlinx II : Block Diagram

CAMLINX II



Notes:

1. SYNC IN/OUT Bi-level and Tri-level (Hi-def) syncs. are supported

2. Serial 3 is included in the 26way Tally / GPIO D-type connector.

3. Talkback control input for the handheld controller. When the controller is not used, the Talkback audio is continuously enabled.





2. Camlinx II Units

2.1. Camlinx II : Base Unit



The base unit is housed in an industry standard 1U / 19" rack enclosure with a cooling fan mounted internally on the right hand side.

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2.2. Camlinx II : Head Unit

- HD SDI —



-TALKBACK-

CTRL



2.3. Dimensions and Weights

	Dimensions Width x Depth x Height (mm)	Weight (kg)
BASE	430 x 270 x 40 (main 1U enclosure)	2.5
	485 x 270 x 40 (including front panel mounts and connectors)	
HEAD	180 x 135 x 70 (main enclosure)	1
	185 x 160 x 120 (including fibre pod, connectors, display, battery plates, tally light)	



switches, etc.

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4. Quick start guide

- 1. Make system connections according to chosen system configuration. Ensure serial and tally cables are connected to the system.
- 2. Turn on mains power to the base. Ensure power is present at the head and the base. Note that the head powers up several seconds later than the base to reduce power inrush loading on initial power on.
- 3. Check the power level indicator on the base, ensure the system is not overloaded.
- 4. Check fibre levels using the screenkeys display at head or base.
- 5. Set camera number using the menus on the base.
- 6. Set the serial communications standard (RS232 by default). If a remote control panel is used, check its operation.
- 7. Set the head audio input levels -0dB by default.
- 8. Set the headset microphone input level +18dB level by default.
- 9. Adjust the headphone volume level.
- 10. System should be operational.

5. Camlinx II Features

5.1. Video

The Camlinx II system supports the following video standards;

Video Standard	SMPTE	Supported
Composite NTSC/PAL/SECAM	170M	Yes
SD-SDI 270MBit PAL	259M	Yes
SD-SDI 270MBit NTSC	259M	Yes
HD-SDI 1485MBit 1080 50i, 25p, 60i, 30p, 24p	292M	Yes
HD-SDI 1483MBit 1080 59.9i, 29.9p, 23.9p	292M	Yes
HD-SDI 1485MBit 720 60p	292M	Yes
Dual Link HD-SDI	372M	
3G-SDI	424M	Yes with 3G and 3G-3D options (See ordering info)
Ethernet		10/100Mb/s
HDMI		Base only

5.2. Programme Audio

Audio input and output connectors are mounted on the side of the Camlinx II head unit.

This allows the Camlinx II system to pass audio without additional hardware. Audio input levels can be adjusted in 6dB increments and also have the ability to supply 'phantom power' to a microphone.

Embedded audio is passed transparently by the Camlinx II system.

5.3. Displays

Both the Head and Base units have small colour displays (referred to as the screenkeys display) which present system information to the user. There are fields on the head screenkeys display that are not present on the base display (see table on next page.)

In addition the Base has a 2×16 character LCD display.

5.4. Thumb wheel Switches

Settings on the Base and Head units are adjusted using two thumb wheel switches (SW1,SW2). These have three positions which are to the left, to the right and centre push. When using these switches the user must press and hold the switch in the desired position until the LCD or Screenkeys display changes.

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On the base, the two front rocker switches are used to change settings on the LCD display only. On the head, the switches are used to adjust settings on the screenkeys display.

5.5. USB System Updates

The Camlinx2 system has a USB upgrade facility which allows users to upgrade their systems in the field from a USB stick.

System upgrades files are available by;

- a) USB stick from Volamp or Volamp Distribution
- b) Email attachment from Volamp or Volamp Distribution
- c) File download from the website.

To upgrade a Camlinx II unit, the programming files must be loaded onto a USB stick. Apply power to the head or base unit and allow it boot up as normal. Insert the USB stick and leave the system for 5 minutes. During this time the system will not pass signals. Once the system has reconfigured it will automatically reboot itself and start to pass signals. Remove the USB stick.

Volamp recommend the use of SANDISK USB sticks for this purpose.

5.6. Battery Mounting Plate

Camlinx II can be supplied with different battery mounting plates on the head unit. This is specified when ordering. The following plates are supported;

1. Anton Bauer

- 2. Sony V-Lok
- 3. PAG PagLok







5.7. Tri-Level / Bi-Level sync

This feature allows gen-locking of cameras. A sync signal connected to the sync input on the base will appear at the sync output on the Camlinx II head for connection to the camera. Both bi-level (SD) and tri-level (HD) syncs are supported.

5.8. Serial Data

Camlinx II provides three full-duplex serial channels with a maximum data rate of 500KBit/second. All channels can be configured as RS232 or RS422 using the menus on the base. Please contact Volamp if support for RS485 is required.

Serial channels 1&2 have dedicated connectors on the base and head units, the third serial channel is located in the 26 way D-type connector.

Note the crossover of the serial signals between the head and the base.



5.9. Timecode

The system passes Time Code (LTC) between the head and the base.

Frequency of operation 960hz – 2.4 kHz.

24,25 or 30 frames of timecode per second with 80 bits per frame.

5.10. Ethernet

10/100 Ethernet can be passed transparently between the head and the base. RJ45 connectors are present on both units for this purpose. This facility can be used for;

Computer networking

Camera control

Pan and tilt control

Internet access.

5.11. Power over Ethernet

48V up to a maximum of 20W is available at the base Ethernet connector for powering control panels.

5.12. HDMI

The HD-SDI input video channel from the head is output on the HDMI connector at the base .

5.13. Tally (26W D Connector)



Camlinx II incorporates a bidirectional Tally system used to provide an on-air indication at either the head or the base. Connections to the Tally system appear on the 26 way D-type connectors present on the head and base units. The head has a dedicated Tally LED indication on the top of the unit which incorporates a push-button switch so it can be manually disabled.

In addition, there is an 'optical Tallly' light output on the head which will be illuminated. A 'light guide' (OT-CAMLINXII) can be connected to this output which can be mounted in the camera eyepiece (or elsewhere) so the operator can always see the the Tally indication.

Passing a current between IN+ and IN- closes the connections between Common1 / On1 and Common2 / On2 which can be used to drive indications.

5.14. Convergence (26W D Connector)

Provides an analogue voltage from the base to the head for setting the convergence point on 3D cameras. This voltage continuously sampled and is in the range 0 to +5V.

The Convergence pins appear on the 26 way D-type connectors present on the head and base units.

5.15. GPIO (26W D Connector)

There are 4 digital GPIO (General Purpose Input Output) pins in each direction across the fibre link.

Signals onto the GPIO pins must be at TTL levels

Input Low < 0.7V

Input High >3V up to a maximum of 6V

Maximum switching frequency of 500KHz.

The GPIO pins appear on the 26 way D-type connectors present on the head and base units.



Camlinx II can support one or two channel talkback systems. The base unit accepts two five pin XLR connectors, one for channel A and the other Channel B. The Head has one five pin XLR connector for a standard headset. Audio from both channels can be received into the headset either as a single channel in each ear or both channels mixed and into each earpiece (see section on head settings).

A talkback controller is available which plugs directly into the Camlinx II head. This allows the user to adjust the headphones volume remotely from the head unit. It also includes a 'push to talk' button which enables the headset microphone. If a Talkback controller is not used, the sound is continuously enabled and volume control is adjusted using the three way rocker switch SW1 on the head unit.

The headphones' microphone can be disabled using SW2 on the head unit.

6. System Settings

6.1. Screenkeys display

Screenkeys colour displays are present on both the head and the base units and provide system information to the user. As the head unit does not have an 16x2 LCD, additional information is displayed on the head display. See following table.

Doc	cument No. : UserManua	I_CII_2					
		FII	BRE LEVEL				
			ocal				
	2	r e	emote				
	0 0						
	Description	Colour		Notes			
0	Camera Number	Black	Set at base				
1	Fibre Level % - Local	Green	Also : Fibre unlocked	Fibre level too low			
2	Fibre Level % - Remote	Blue	Also : Fibre unlocked	Fibre level too low			
3	Fibre Driver Temperature	Yellow					
4	Audio CH1 :		Head only				
	Phantom Power ON	Orange					
	Phantom Power OFF	Purple					
5	Audio CH2 :		Head only				
	Phantom Power ON	Orange					
	Phantom Power OFF	Purple					
6	Headphones :		Head only				
	Individual	Cian	Channel 1 in right headpho	ne, channel 2 in left headphone.			
	Combined	Pink	Channels 1 and 2 mixed an	nd driving both headphones			
7	Mic Level :		Head only				
	Input Muted	Grey					
	Input Enabled	Blue					
8	Core temperature	Red					
9	Call Indicator	Blue					
10	Tally Indicator	Green					

Document No. : UserManual_CII_2 6.2. Fibre Level bars

At the top of the screenkeys displays are two horizontal bars which give an indication of fibre light levels. The local level is the received level at the unit on which the display is mounted (could be head or base). The Remote level is the receiver light level at the unit at the far end of the fibre.

The fibre level bars should lie between 20 – 90% for correct operation.

If the level falls too low, the bar will change to red in colour and reliable operation cannot be guaranteed.

In addition, if communications between the head and base are not locked, the bars will change to grey in colour. (see below)



6.3. Base Unit : Settings adjustment

In addition to the screenkeys display, the base unit has a 16x2 character LCD which is used when adjusting system settings.



	Main Menu Options		Sub Menu Options		SELECT - >	INFO	
	SWITCH 1		SWITCH 2				
ontion	(NOTE 1)	ontion	(NOTE 2)	ontion	(NOTE 3)	(NOTE 4)	
1		1	FPGA Head Temp	option	(55^C	
-	BASE	2	FPGA Base Temp			56^C	
	DAGE	2				1	
		3				047500	
		4				047588	
		5	Sonware			2660	
		6	Firmware			N/A	
		7	Start Temp			40′°C	
2	AUDIO	1	Left	1	Line		
		2	Right	2	Mic		
3	COMP CH2 SET			1	Enabled		
				2	Disabled		
4	STD	1	STD SDI Output			Indicates the standar	
		2	STD CVBS Input 1			of the selected video	
		3	STD CVBS Input 2			stream.	
		4	STD SDI Input				
		5	STD CVBS Output				
			· ·				
5	CAMERA NUMBER			1	1		
				2	2		
				3	3		
				4	4		
				5	5		
					-		
6	TALLY OUTPUT	1	Local	1	LOCK ON		
		2	L FD	2			
		3	Remote	3	STD		
				4			
7		1	СН1	1	P \$232		
-		2	СН2	2	R0232		
		2		2	110422		
		- 5					
Q	FIBRE						
0			301			Fibre Loading	
			201			Statua	
			JGZ Domoto			Status	
			Remote				
NOTE							
			auto the Main Manager	lione !!:	tod beleve		
	Push left or right to so		own the Nain Menu op	lions IIS	Lea Delow		
2	Push left or right to so	croll up/de	own the Sub Menu opti	ons.			
3	Press and hold the ce	entre butt	on of Thumbwheel2 (rig	pht hanc	I side) until the	e (- >) appears.	
	Change the setting by pressing Thumbwheel 2 to the right or left.						
1	To confirm the setting, press and hold centre button of Thumbwheel2 until (->) disappears.						

6.4. Head Unit : Settings adjustment

The two 3 position rocker switches on the head adjust Audio and Talkback functions. When using these switches the user must press and hold the switch in the desired position until the LCD display changes.

The screenkeys display also incorporates a push-button. By pressing down on the button, the functions of the two three position rocker switches (SW1, SW2) can be changed between Talkback and Audio functions.

				Screenkeys Display / Button
AUDIO (Hold Display)	GAIN IN1 Ph+ +	GAIN IN2 - Ph+ +		
TALKBACK	Mono + VOLUME	– Mute + MIC LEVEL	Rocker Swit SW1, SW2	ion ches
Hea	ad : Switch M	arkings		
AUDIO Function	s (Press and hold	d down the screen	keys button to adjust	st)

GAIN IN1	Push rocker switch to left or right to increase / decrease gain by 6dB
GAIN IN2	increments.

Ph+	Push rocker switch forward to enable or disable 36V Phantom Power (used to power an external microphone). Setting will be reflected on the screenkeys display.

TALKBACK Functions

VOLUME	Push rocker switch to left or right to increase / decrease volume into the headset earphones.
Mono	Push rocker switch forward to select separate talkback channels in each headphone or a mixture of both into each headphone.
MIC LEVEL	Push rocker switch to left or right to increase / decrease gain by 6dB increments.
Mute	Push rocker switch forward to mute / unmute the microphone.

Doci	ument No. : Head :	JserManual_CII_2 unction Selection FIBRE LEVEL local remote Function Select Boxes			
	AUDIO	GAIN IN1 GAIN IN2			
	TALKBA	K Mono + - Mute + VOLUME MIC LEVEL			
		lead : Switch Markings			
Thes setti swit	se boxes sh ng, press a ch and the o	ow the current settings of the Camlinx II head unit. To change the display changes. Release the splay changes back to camera number.			
Set	ting	Function Select Box displays			
GA]	IN IN	5 Line level input $0 - 5$			
Ph-	-	Phantom Power ON			
		Phantom Power OFF			
VOI	LUME	Increase / decrease headphone volume			
Μοι	10	Both talkback channels mixed to each earphone (Mono)			
		Individual channels to each earphone (Stereo)			
MIC	MIC LEVEL 5 MIC level input 0 – 5 Increments of 6dB (0dB to 30dB range)				
Mut	te	Microphone ON			
		Microphone OFF			

7. Connectors

7.1. Talkback - 5 way XLR connectors

	HEAD XLR 5 PIN SKT		BASE XLR 5 PIN	I PLUG			
Pin		Pin	СНА		СНВ		
1	Microphone +	1	GND		GND		
2	Microphone -	2	IN-LP+		IN-RP+		
3	Ground/screen	3	IN-LN-		IN-RN-		
4	Headphones R	4	OUT-LN-		OUT-RN-	J-	
5	Headphones L	5	OUT-LP+		OUT-RP+		
Talkback Connector		Manufacturer				Mating Connector	
Head	d	Neutrik		NC5FBH (socket)		NC5MX	
Base		Neutrik		NC5MBH (plug)		NC5FX	
Talk Con	back Controller	Man	ufacturer			Mating Connectors	
Head		Тусо)	T01-0560	-S04	T01-0550-P04	

7.2. Base - Serial 1 & 2 connector pin assignments.



Pin	Function	Pin	Function
1	0V	6	NC
2	TX+ (RS232 / RS422)	7	TX- (RS422 only)
3	RX+ (RS232 / RS422)	8	RX- (RS422 only)
4	12V (200mA max)	9	NC
5	GND		

7.3. Base - 26 Way D-Type Connector pin assignments.

1 2 3 4 5 6 7 8 9 1011 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

Front view

Pin	GPIO	Pin	Tally	Pin	Serial	Pin	Power
1	IN1	8	input+	2	1. Ch3 RX-	26	+5V0 out
9	OUT1	18	input-	3	Ch3 RX+	23	+12V out
12	IN2	17	Output Common1	4	Ch3 TX-	13	GND
11	OUT2	7	Output Off1	5	Ch3 TX+	15	GND
20	IN3	25	Output On1			14	GND
19	OUT3	16	Output Common2				
22	IN4	6	Output Off2				Convergence
21	OUT4	24	Output On2			10	Convergence

7.4. Head - Serial 1 & 2 connector pin assignments.

Front View		Pi	n		Function	
		1	-	TX+ (RS232 ,	/ RS422)	
		2	2	TX- (RS422 only)		
		3	}	GND		
		4	ŀ	RX+ (RS232	/ RS422)	
4	2	5	5	RX- (RS422 c	only)	
Serial Connector	Manufacturer				Mating Connectors	
Head	Тусо		T01-05	560-S05	T01-0550-P05	
		Page	25 of	31		

Document No. : UserManual_CII_2 7.5. Head - +12V local power connector.

	Pin	Function
	1	Ground
	1Ground2Ground3+12V Out4+12 to +13.2 Volts DC IN	
	3	+12V Out
ANSION	3 +12V Out 4 +12 to +13.2 Volts DC IN	+12 to +13.2 Volts DC IN
1 4		

12V Local Power	Manufacturer		Mating Connectors
Head	Neutrik	NC4MD-LX	NC4FX

8. Power

8.1. Introduction

The CamlinxII head and base units can be connected with either a Hybrid cable (fibre plus copper power conductors) or a fibre only cable. If a fibre only cable is used, the head can be powered by one of the following;

- 1. Battery
- 2. Local +12V supply (front connector on head)
- 3. Camlinx Power Injector (PI-Camlinx)

The 125W Base power supply is designed to power both the head and the camera. The head power supplies have enough capacity to power most cameras without additional power supply modules.

8.2. Base power indication

On the front of the base unit is a row of vertical green LEDs which indicate the power load on the base. The top most LED is always illuminated when the base is powered up. The other four LEDs show the loading on the base with the lowest LED showing minimal loading, additional LEDs show increased loading on the base



LED	Power Loading	Comment	Rating(W)
5	Base Power indication	Should always be active	
4	Heavy	Upper limit reached for normal operation	125
3	Medium		75
2	Medium / Light	Head and Camera connected	25
1	Light	Head connected	5

8.3. Hybrid fibre/power cable

The Camlinx base unit can supply 52V DC down a hybrid fibre cable. This is used at the head to generate 12V DC to power the head and the camera. The head can supply the camera with a maximum of 125W up to a distance of 130m.

For distances greater than 130m, the amount of power that the head can deliver to the camera will be reduced due to power losses down a hybrid cable. At a maximum distance of 300m, the power that can be delivered to the camera will be reduced to approximately half the maximum value (see graph below).



8.4. Camera low battery warnings with 52V power

When operating on the 52Volt power system, the Camlinx 2 head delivers 13.2V to the camera. Camera Battery low warning indication should be set to 12V or lower.

9. Troubleshooting

Most problems with this type of system are related to fibre or power issues.

9.1. Fibre

There are two main types of fibre faults;

continuity faults – due to fibre breaks or connectors not seated correctly.

unexplained losses – dirt in fibre connectors, fibre damage.

Connector losses are low. The maximum for a Neutrik Opticon Connector is 0.5dB. Cable losses are also low, typically 0.2-0.4 dB per km. A typical installation will be under 300M of cabling with 2 or 3 connectors per path. The total loss will then be just over 1dB worst case.

	Cause	Action
1	Badly seated connectors	Unplug and reconnect fibre connections
2	Dirt	Clean fibre ends
3	Broken fibre	replace fibre

9.2. Power

The Camlinx II system puts 52V down the hybrid cable and can deliver 125 watts to the camera/head assembly. Attempting to draw more power than this and the system may not work reliably.

If you have problems, first check that the 52V supply is on. Next check the power meter on the base.

- If no lights are on the head isn't connected. There is continuity problem, check your cable and connectors.
- If only the bottom light is on only the head is powered, check your equipment is switched on
- If all lights are on, including the red light at the top, the power supply is overloaded.
 The user will need to reduce the load on the system or add additional capacity.

An overloaded power supply can be a result of

- 1) A short circuit check your cables and connectors
- 2) Too much equipment being plugged into the head
- 3) Inrush problems (i.e. surge of power on power on).

If the head is heavily loaded and inrush problems are suspected when the system is powered up, try powering up the base without the hybrid cable connected. Once the head is stable, connect the cable and the head should power up correctly.

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Specifications

Video - Digital	
Interface Standards	SMPTE 259M (SD), 344M(ED), 292M(HD),
Data Rate (bps)	270M (SD), 1G5 (HD)
Impedance Input/Output	75R
Return Loss	Better than -15dB
Video – Analogue	
Interface Standards	NTSC, PAL, SECAM
Ethernet	
Rate	10BaseT/100BaseT
Connector	RJ45
Audio / Talkback	
Channels	2 input / 2 output
Electrical interface	Balanced line
Connector	XLR-5F
Adjustable Gain	+20dB
Frequency Response	<u>+</u> 0.1dB (20-20Khz)
SNR	Min -65dB Typ -70dB
Fibre Characteristics	
Туре	9um Single Mode
Connector	Neutrik / Lemo (user specified)
Serial	
RS232 or RS422	User select
Sync	
Bi-level / Tri-level	Automatic selection (SMPTE 294,296)
Dimensions L x B x D (mm) (note1)	144 x 183 x 41
Weight (g) (note1)	700
Input Voltage Range (12V)	8Vdc-14Vdc
Power Consumption (Typical)	10W
Notes:	
1 Without Battery Plates.	

10. Ordering information

Please specify the video, battery and connector options required when placing your order. In addition, a basic Camlinx II system has one bidirectional HD-SDI Video channel. Additional channels can be added (at extra cost) to suit different applications.;

Part Number : CAMLINX2-(V)-(C)-(P)

Option	Description	Code		
-V	Video Channel options		HD/SD	3G/HD/SD
		-1	1	
		-2	1	1
		-3	1	2
- C	Connector	 N – Neutrik, L3K – Lemo3K, LH – Lemo Hermaphroditic R – Rosenberger (Fibre only, NO power option) 		
-P	Battery mount	AB – Anton Bauer, N – none	V – V Lock, P – Pag	JLok,

(e.g. CAMLINX2-<u>3</u>-<u>N</u>-<u>AB</u> would be a Camlinx2 system with three fibre channels (1 x HD/SD, 2 x 3G/HD/SD) Neutrik connector and Anton Bauer battery plate.)

	Accessory	Description	Part No.
1	Tally Module	Adds support for Tally, LanC, Convergence	CAM2-TM
2	Talkback controller	Remote pod with volume control and PTT	CAM2-TBC
3	Optical Tally	light guide giving red tally light in camera eyepiece.	CAM2-OT
4	Universal RCP	Camera remote control panel (RCP)	RCP-2050A
5	Cables	See http://www.volamp.com/cables.html	

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