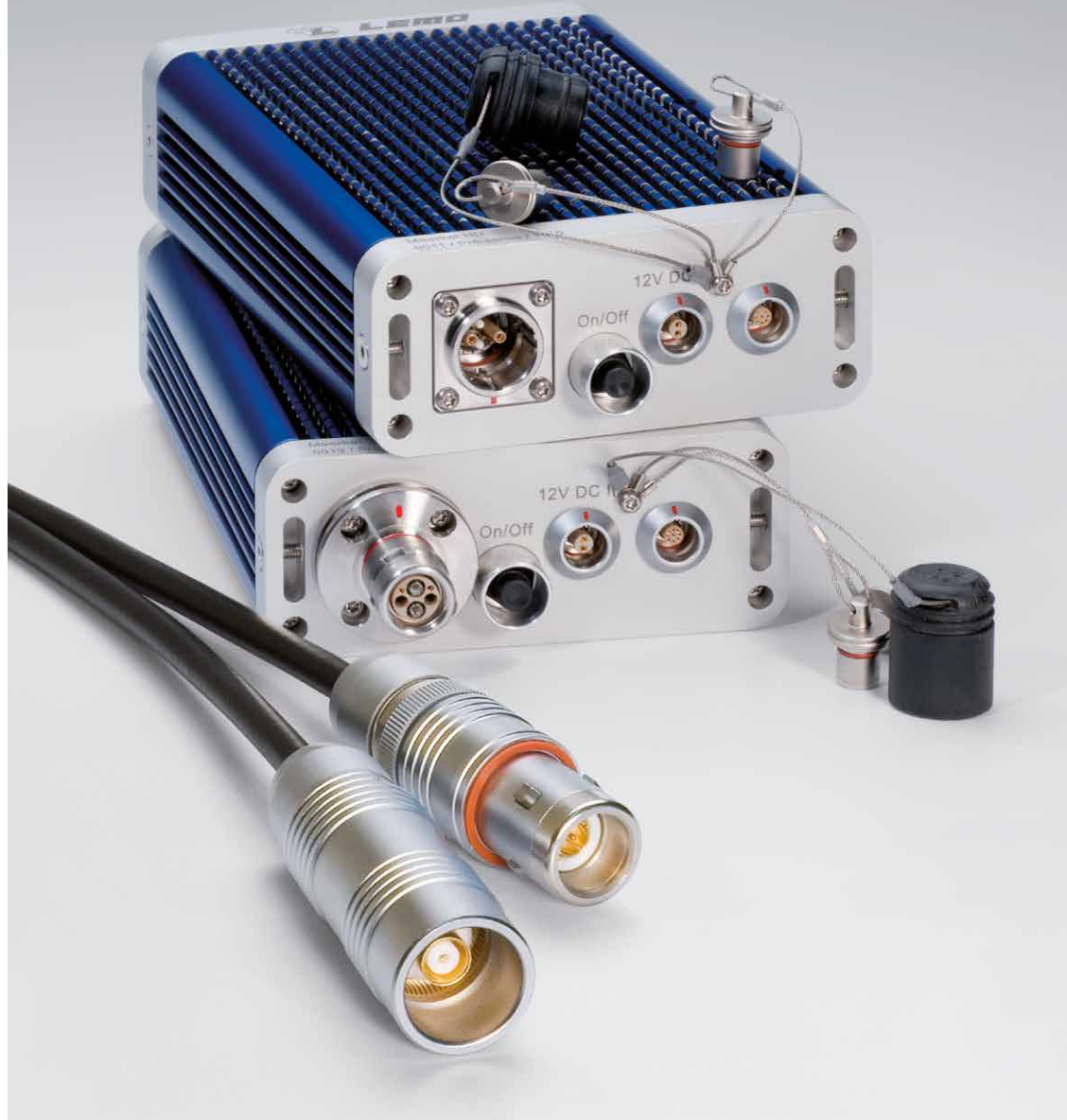


# MEERKAT™ HD

## TRIAX-TO-FIBRE VIDEO MEDIA CONVERTER



### **A compact solution for Sony® SD, Grass Valley™ (Thomson®) SD/HD camera based systems**

The LEMO MEERKAT™ Triax media converter system provides the solution the broadcast industry has been waiting for. This compact “plug and play” transmission system provides a fibre link between Triax cameras and OB vans.

The LEMO Media Converter offers mobile facility providers, production centres and broadcast studios an appropriate and professional solution for long distance signal transmission.



## Get more from your cables

The camera is powered via a hybrid cable from the CCU with both the camera signals and the return monitor signals being digitally encoded and transmitted over fibre.

The SMPTE 311 hybrid cable uses the well proven technology of the LEMO 3K.93C series. If power from the CCU/OB van is not required, i. e. local power is available, a two fibre cable using 2 x FC-PC or 2 x SC may be used for signal transmission.

### Applications

- Golf, skiing, auto racing, olympic games
- Pre-fibred venues
- Stadiums, racing tracks

### Advantages

- Plug & play solution
- Lightweight and portable, compact
- No need for bulky / heavy triax cables
- High quality signal transmitted over fibre
- LED functionality display



## Features

- CE and FCC class B certified
- Immune to EMI
- NTSC & PAL
- Digital encoding and transmission
- Portable device
- No repeaters needed

## Accessories

- Tripod clamps (WST.MT.286.DZZ)
- MEERKAT™ carry belt (WST.MT.170.TZZ)
- 3K.93C assembled cable
- 3K.93C – SC or FC/PC adapter cable
- Option in-line power supply

Every triax-to-fibre Media Converter comes with power supply (110V/220V) adapter and its specific dongle (either Grassvalley or Sony).



**Each MEERKAT™ is delivered in a black watertight flightcase.**

## Specifications

Input/outputs	Connectors
I/O ports	Triaxial connector 75 Ohms LEMO 3K.93C Series, (HDTV)
DC in	LEMO 0K Series, 2pin in-line transformer
General	Values
Dimensions	125W x 270L x 50H mm
Mass (approx.)	2 Kg
Power requirements In North America, Japan and areas of South America	100 to 120 Vac, 50/60Hz
Power requirements in Europe, Africa, Australia, Scandinavia, China	220 to 240 Vac, 50/60 Hz
Power consumption	16 W
Operating voltage	12 Vdc / 1.5A max
Operating temperature	-20°C to +55°C
Humidity	up to +95%
Index protection	IP66 (when mated)
Signals	Values
Optical RX sensitivity	-3dB to -21dB
Data rate	2x2.5 GB/s
Optical Tx output	200µW (250µW max)
Transm. wavelength	1310nm /1550nm
Supplied accessories	Quantity
Fuse	4 X 4 Amp Wickmann TR5
AC/DC power supply	2 with UK, USA, Europe adaptors
User's guide	1

## List of HD compatible cameras

Manufacturer	Camera		Triax Camera Adaptor Part Nr	Base Station	
	Part Nr	Type		Part Nr	Type
Grass Valley™	LDK 3000	HD	LDK 5630	LDK 4580	HD
Grass Valley™	LDK 4000	HD	LDK 5460 LDK 5860	LDK 4502	HD
Grass Valley™	LDK 6000	HD	LDK 5460	LDK 4502	HD
Grass Valley™	LDK 6200	HD	LDK 5462	LDK 4506	HD
Grass Valley™	LDK 8000	HD	LDK 5860	LDK 4502	HD
Grass Valley™	LDK 8000 (S)	HD	LDK 5860	LDK 4506	HD

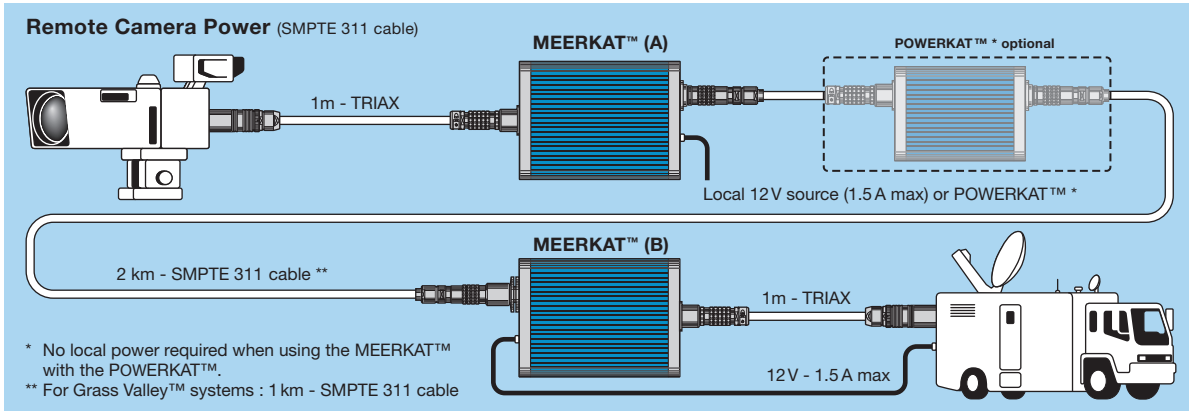
## List of SD compatible cameras

Manufacturer	Camera		Triax Camera Adaptor Part Nr	Base Station	
	Part Nr	Type		Part Nr	Type
SONY®	BVP-E30	SD	CA590	CCU-790	SD
SONY®	BVP550	SD	CA550	CU-550	SD
SONY®	BVP950	SD	CA570	CCU-700	SD
SONY®	BVP700	SD		CCU-700	
SONY®	BVP750	SD		CCU-700	
SONY®				CCU-750	
SONY®				CCU-500	
Grass Valley™	LDK20s	SD	LDK5400 LDK5430	LDK4053 LDK4501	SD
Grass Valley™	LDK100 LDK200	SD	LDK5400 LDK5430	LDK4053 LDK5401	SD
Grass Valley™	LDK300	SD	LDK5400 LDK5430	LDK4501SL	SD
Grass Valley™	LDK400	SD	LDK5400 LDK5430	LDK4501SL	SD
Grass Valley™	LDK500	SD	LDK5400 LDK5430	LDK4501SL	SD

**Notes:** Do not connect any camera other than those on the list above without contacting the LEMO Technical Support Group.

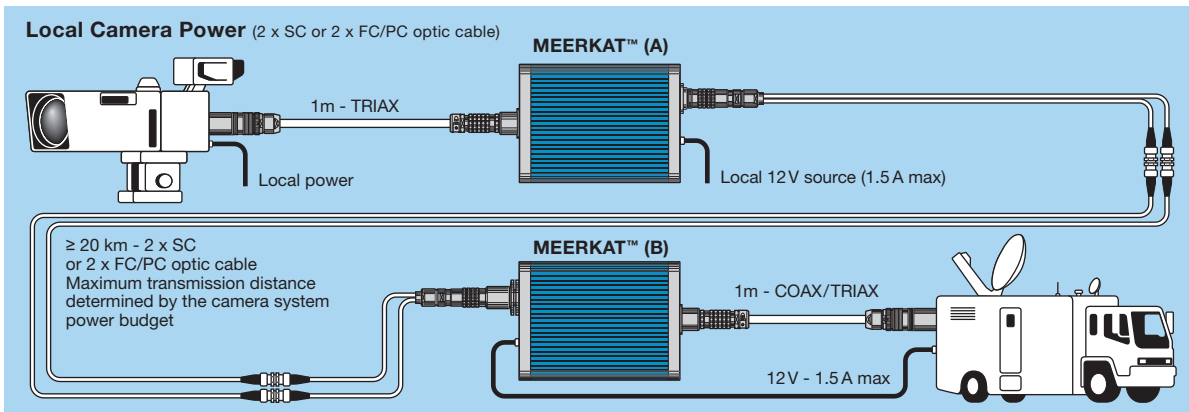
## Option 1 - Remote Camera Power

With the Remote Camera Power setup, the camera is powered directly through the SMPTE 311 cable. The useable cable length of the SMPTE 311 cables is limited by the resistance of the copper power conductors and will vary between cables from different cable manufacturers. However distances of up to 2 km are achievable (for Sony® based systems only).



## Option 2 - Local Camera Power

With the Local Camera Power setup, the camera is powered with its AC or DC voltage from a local source of power either - a generator or a power pack.



LEMO triax connector on the camera	Part number of the MEERKAT™ (A) on the camera side	Electrical triax connector on cable
Socket 4M.650	PHW.MT.3**.TFRP10	FGG.4M.650.CTLC90
Plug 4M.650	PHW.MT.3**.TPRP10	PHG.4M.650.CTAC90
Socket 4E.675	PHW.MT.3**.TFUP10	FFA.4E.675.CTAC90
Plug 4E.675	PHW.MT.3**.TPUP10	PCA.4E.675.CTLC90
Socket 4A.675	PHW.MT.3**.TFVP10	FXB.4A.675.CTCC85
Plug 4A.675	PHW.MT.3**.TPVP10	PXA.4A.675.CTRC85
Socket REDEL F	PHW.MT.3**.TFWP10	FAZ.T7.675.CTA02C
Socket 3T.675	PHW.MT.3**.TFTP10	FFA.3T.675.CTAY92S

LEMO triax connector on the CCU	Part number of the MEERKAT™ (B) on the CCU side	Electrical triax connector on cable
Plug 4M.650	FGW.MT.3**.TPRP10	PHG.4M.650.CTAC90
Socket 4M.650	FGW.MT.3**.TFRP10	FGG.4M.650.CTLC90
Plug 4E.675	FGW.MT.3**.TPUP10	PCA.4E.675.CTLC90
Socket 4E.675	FGW.MT.3**.TFUP10	FFA.4E.675.CTAC90
Plug 4A.675	FGW.MT.3**.TPVP10	PXA.4A.675.CTRC85
Socket 4A.675	FGW.MT.3**.TFVP10	FXB.4A.675.CTCC85
Plug REDEL F	FGW.MT.3**.TPWP10	PCZ.T7.675.CTL02C
Plug 3T.675	FGW.MT.3**.TPTP10	PCA.3T.675.CTY92S

**	Camera system
KC	Sony® SD / Grass Valley™ SD
TH	Grass Valley™ HD / Grass Valley™ SD / Sony® SD



## Going the distance digitally

TRIAX 2 km

Fibre (with remote power) 2 km

Fibre (with local power) 20 km

Cable Camera to MEERKAT™ (A)	Type	Cable CCU to MEERKAT™ (B)
MAP.MC.TAA.MM012G	4A series	MAM.MC.TAA.CM012G
MAF.MC.TRA.AM012G	REDEL T7	MAR.MC.TRA.AM012G
MAC.MC.TMA.AM012G	4M series	MAG.MC.TMA.LM012G
MAL.MC.TEA.LM012G	4E series	MAA.MC.TEA.AM012G
MAA.MC.TTA.AM012G	3T series	MAC.MC.TTA.LM012G

Additional triax cables can be ordered for specific cameras.  
One set of cable comes with fully working MEERKAT™ System.



#### EDW POWERKAT™

##### EDW.MT.126.TE3K

It retrieves the power directly from the CCU and allows powering both the camera and HD MEERKAT™ directly from the SMPTE cable. Delivered with 1 meter cable to HD MEERKAT™ (PUW-FUW).



#### GSF Tripod clamp

##### GSF.MT.283.DZZ

The tripod clamp allows the camera operator to fix the HD MEERKAT™ to the camera tripod.



#### WST Hang up strap kit

##### WST.MT.170.TZZ

The hang up strap kit allows the camera operator to easily hang up the HD MEERKAT™ while shooting. (Strap length: 0.25 m).



#### WSK Belt carrier

##### Belt: WSK.MT.285.PN

##### Buckles: WSK.MT.284.RT

The belt carrier allows the cameraman to carry the MEERKAT™ or the POWERKAT™ on the hip. Simply slide the belt through two buckles.

**Note:** Two buckles are necessary to carry the MEERKAT™.



#### MGY Cable lead for battery

##### MGY.OK.302.YAM020N

Cable lead for professional battery belt, it allows powering the HD MEERKAT™. Cable (length 2 meters) with 2 pin LEMO connector (FGG.OK) to a 4-Pin XLR male Neutrik connector. To be used with commercially available battery belts (12V)



#### FGG Programming dongle

The HD MEERKAT™ is delivered with its original dongle. An additional dongle is available (Grass Valley® / Sony®). The second dongle allows switching from one system to another.

Grass Valley® SD: **FGG.OK.309.CB70TS**

Sony® SD: **FGG.OK.309.CD70SS**

Grass Valley® HD: **FGG.OK.309.CA00TH**

## LEMO HEADQUARTERS

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#### Product safety notice & disclaimers:

Please read and follow all instructions specified on <https://www.lemo.com/en/about-lemo/product-safety-notice-and-disclaimers>