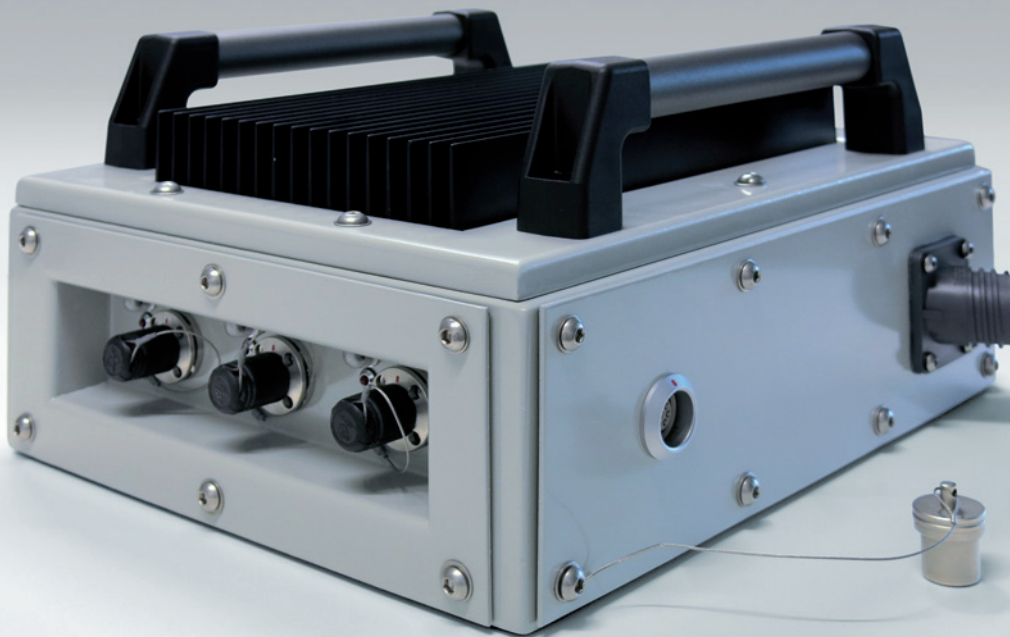


# MULTISHACK 3X™

## FROM MULTIPLE SMPTE CABLES TO A SINGLE MULTIWAY FIBRE CABLE



## MULTISHACK-3X™ conversion system

The MULTISHACK-3X™ is a conversion system from multiple SMPTE connectors/cable to a single multiway fibre cable. The system provides a transition from HD over hybrid (copper and fibre) cables to HD over a single multiway fibre optic cable.

The MULTISHACK-3X™ enables up to 3 cameras to be individually powered from one remote source (i.e. a local generator) through the 3K.93C connectors and cables. The optical signals will continue to be transmitted through individual pairs of fibres within a multiway fibre optic cable.

The power is inserted at the Camera end MULTISHACK-3X™ via a waterproof mains /

power connector and is distributed to the hybrid cables through individual circuits. The CCU / OB MULTISHACK-3X™ is powered by the output voltage from the CCU.

The MULTISHACK-3X™ uses the technology proven in the SHACK™ and has individual transmission circuits ensuring a manufacturer protection handshake for each channel.



## Technical characteristics

Characteristics	Values
Fibre type	Singlemode
Hybrid connector	LEMO 3K.93C Series
Multifibre connector	LEMO 4K Series
Temperature range	-20°C to +60°C
CCU supply voltage range	15 V to 360 V
EMI/RFI	Complies with 89/336/EEC
Electrical	Complies with EN 61000-6-1, EN61000-6-2
Laser Safety	Complies with Class 1 laser product 24 CFR 1040.10 & 1040.11
Humidity range	Up to 95%
Warranty	5 years
Return loss	Better than 45 dB per channel
Average insertion loss	0.4 dB per channel
Weight	17 kg

Manufacturer	Part number	Description	No
Grass Valley™ (grey)	PXG.MX.C31.AT	Camera end/for GrassValley™ model/3 way	1
	PHD.MX.V13.AT	CCU end/for GrassValley™ camera model/3 way	2
	PHT.MX.R13.AT	Break out box for ST fibre Camera end	3
	PTG.MX.R31.AT	Break out box for ST fibre CCU end	4
	PHC.MX.R13.AT	Break out box for SC fibre Camera end	3
	PCG.MX.R31.AT	Break out box for SC fibre CCU end	4

**Notes:** For a Sony® version, replace last digit of the part number "T" by "S". Grass Valley™ version is grey and Sony® version is blue.

## Features

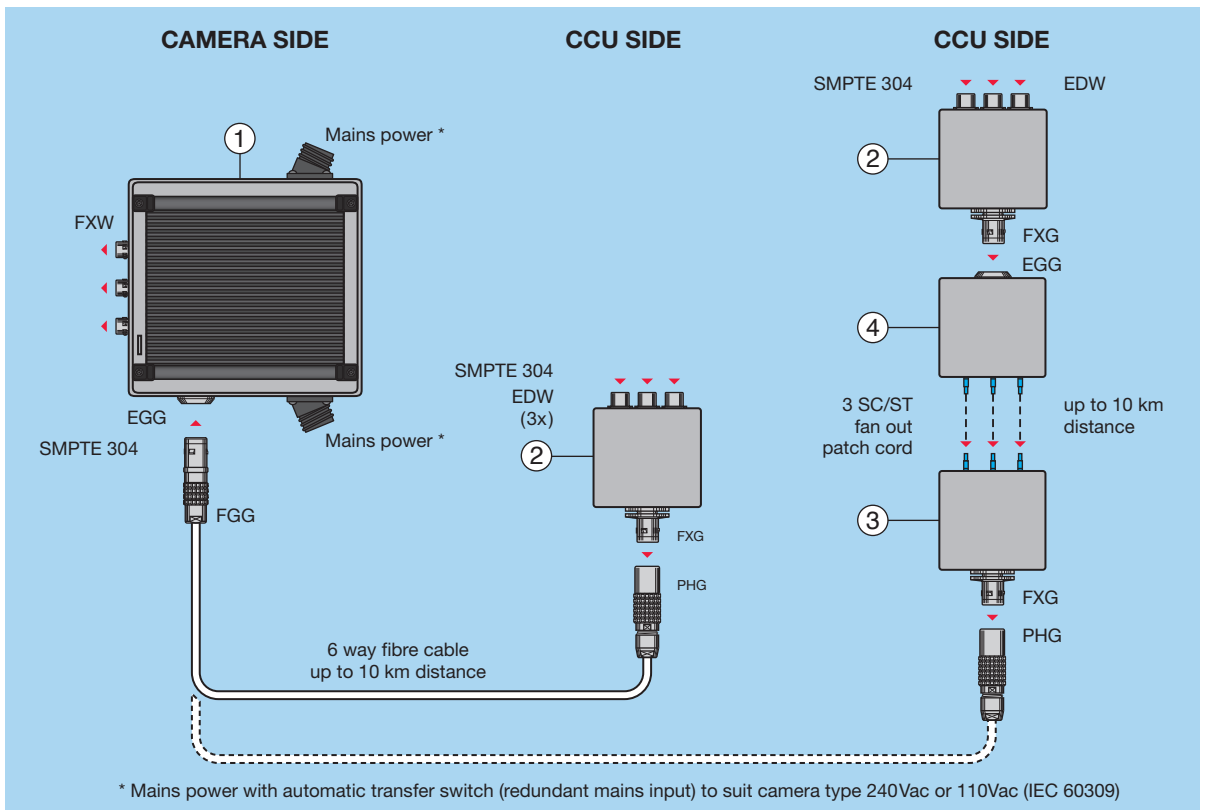
- Converts from SMPTE 304 connectors to a single multiway fibre optic cable
- Plugs directly into camera/base station via cable
- Allows connection of up to 3 cameras
- Redundant power supply

## Advantages

- Plug & Play solution
- One multiway cable is cheaper than multiple SMPTE 311 hybrid cables
- The 3 cameras can be powered without additional mains / DC leads to every camera

## Applications

- Golf, skiing, auto racing, olympic games
- Stadiums, racing tracks
- Wherever multiple cameras are needed in a remote location



## LEMO HEADQUARTERS

SWITZERLAND  
LEMO SA  
Chemin des Champs-Courbes 28 - P.O. Box 194 - CH-1024 Ecublens  
Tel. (+41 21) 695 16 00 - Fax (+41 21) 695 16 02 - e-mail: info@lemo.com

[www.lemo.com](http://www.lemo.com)