

Cambox SPU48

Sony HXC-FB80 Advanced Power Unit

SPU48 – Advanced Power Unit – (½ RU + CCA)



SPU Power Unit



Belt Clip and V-Lock

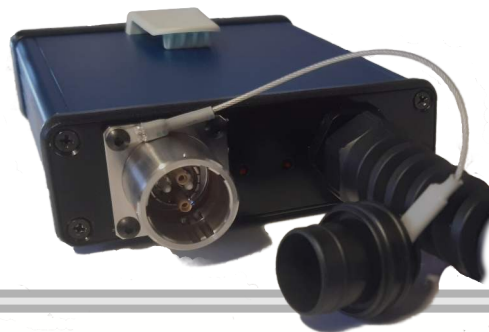
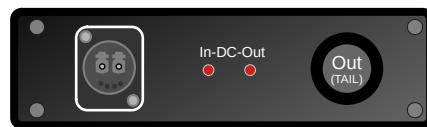


CPU Side by Side mount



SPU48 Camera Adapter

Belt-Pack & V-Lock



Models:

- SPU48N** : Neutrik Opticalcon DUO
- SPU48M** : Neutrik Tail to Lemo SMPTE 304M
- SPU48L** : Lemo SMPTE 304M (HXC-FB80-L)
- SPU12V** : Multi-Brand (power to camera 12V)



HXC-FB80
CCU

Fiber Pair
Up to 8 Km

Main Vac

Power Unit
DC Out

CCFN
Cable

Hybrid
Up to 750 mt.

Camera
Adapter

CCFN
Tail

Hybrid
130 cm

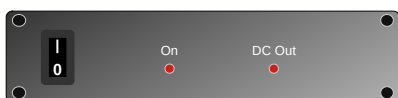


HXC-FB80
HEAD

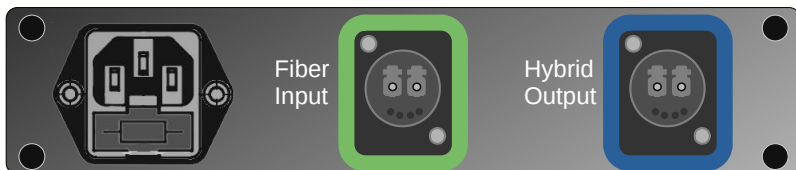
Note:

The Power Unit do not supply energy to Hybrid Cable until Camera Adapter is physically connected.

SPU48 ½ RU Power Unit



Main Switch:
Switch on the Power Unit → On LED
DC Out LED:
Lighted when Adapter connected and powered



Main Input: 90-240 Vac 60VA → Fuse: T1A

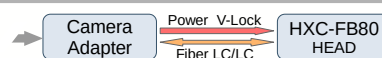
Fiber Input: ● Connect Fibers LC/LC coming from HXC-FB80 CCU

Hybrid Output: ● Powered Hybrid Out to Camera Adapter
● Neutrik Opticalcon DUO or Lemo - SMPTE304M

SPU48M

Special version developed to use SMPTE / LEMO cable connection between Power Unit and Camera Adapter keeping Neutrik connection to HXC-FB80

SPU12V



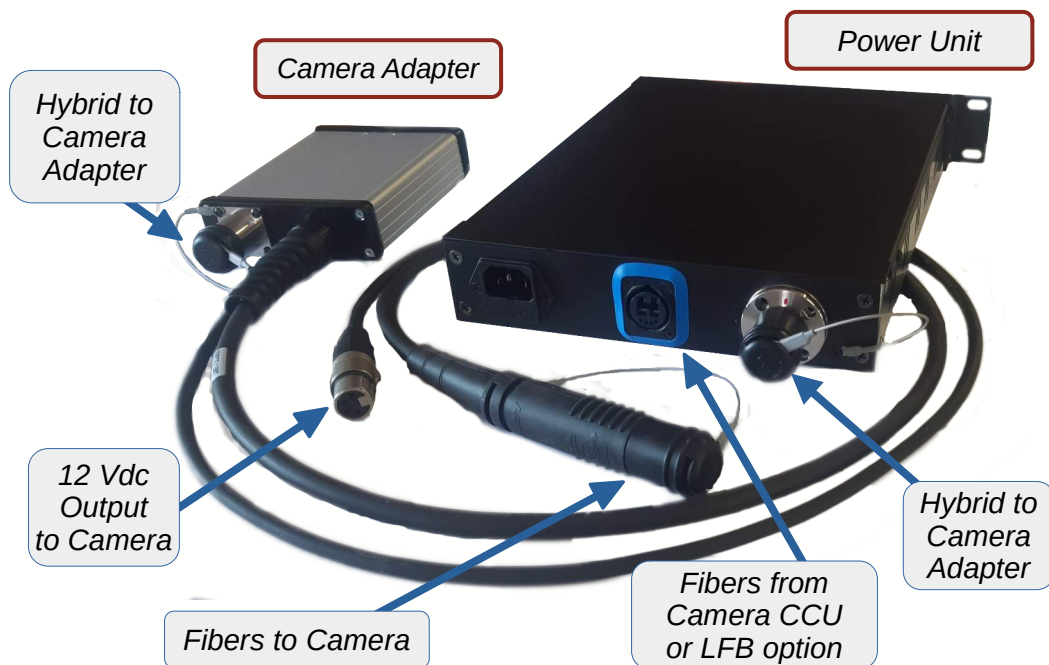
Same features. Multi-Brand.

The Camera Adapter is fixed on battery Plate, energy is supplied through battery pins or XLR4 and data via 10cm LC-LC. V-Lock or Gmount versions available. Not compatible with HXC-FB80-L

Preliminary

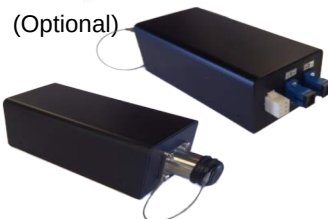
SPU12 – Advanced Power Unit – (½ RU + CCA)

Sony – GrassValley – Panasonic – Hitachi – Ikegami



General Purpose
Power Re-Insertor
in Hybrid Cable for
Cameras with local
Power Capability
(Typically 12Vdc -XLR4)

SPU-LFB

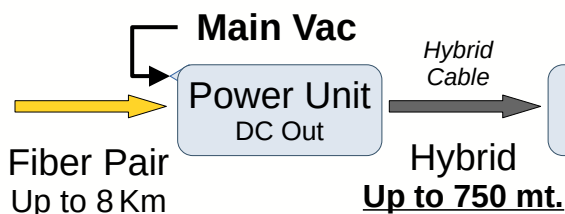


Lemo to Fiber
Adapter Box
LC or SC



Camera
CCU

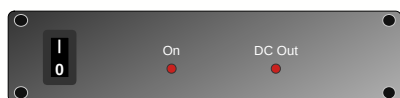
LFB
Opt.



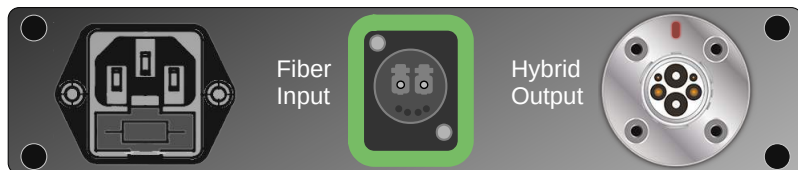
Note:

The Power Unit do not supply energy to Hybrid Cable until Camera Adapter is physically connected.

SPU48 ½ RU Power Unit



Main Switch:
Switch on the Power Unit → **On LED**
DC Out LED:
Lighted when Adapter connected and powered



Main Input: 90-240 Vac 90VA max → Fuse: T1A

Fiber Input: ● Connect Fibers Pair coming from Camera CCU

Hybrid Output: ● Powered Hybrid Out to Camera Adapter
● Neutrik Opticalcon DUO or Lemo - SMPTE304M



LC-LC
or
SC-SC

Belt Clip
plus V-Lock



CPU Side by Side mount

SPU12Nx : Neutrik Opticalcon DUO x=L → LC
SPU12Lx : Lemo SMPTE 304M x=S → SC

**Check compatibility with
Your Camera Models !!!**

Contact us: Email – SMS – WhatsApp

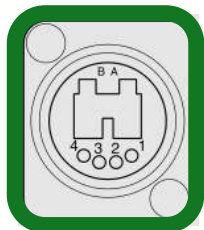
Preliminary

Cambox SPU48

Sony HXC-FB80 Advanced Power Unit

SPU48 – Quick Manual

NEUTRIK Green
Connect here the
Hybrid Cable to
Camera Adapter



Pin	Signal
A	Optical Input
B	Optical Output
1	NC
2	NC
3	NC
4	NC

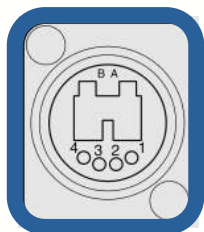
Optical Fibers:
Singlemode Pair



Note:

Neutrik Opticalcon DUO Lite was selected to allow usage of Hybrid cables on input (power unused) and for it's own internal fiber protection when **LC-LC** fiber pair are used
Max distance from Camera CCU: 8 Km

NEUTRIK Blue
Connect here the
Hybrid Cable to
Camera Adapter



Pin	Signal
A	Optical Input
B	Optical Output
1	DC Out (-)
2	Acknowledge
3	Acknowledge
4	DC Out (+)

LEMO - SMPTE

Connect here the
Hybrid Cable to
Camera Adapter



Hybrid Connector:

Neutrik-DUO or Lemo-SMPTE

Note:

Power Unit do not supply energy to Hybrid Cable until Camera Adapter is physically connected. One second after handshake the energy is enabled.
All 4 wires of SMPTE are used.

MAIN Connector



Power Input
90 – 280 Vac
Fuse: T1.5A
5W without Camera
50W max load

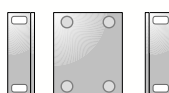
Cautions:

To avoid undesirable spikes between cable/connector pins we suggest to switch off the Power Unit before unplugging Camera or Camera Adapter

Warning: Do not change Fuse Type ⚠

Power Unit Rack Mounting:

Two ½ RU Power Units may be mounted side by side in 1RU with supplied adapters



Installation

Simply fix the Rack mount 'L' on sides with supplied screws
Remove the 2 screws on joining side of front panel and set the '4 holes' plate to connect the two ½ rack than reinstall the removed screws

Specifications:

Main Input: 90-280Vac
Voltage to Camera: 48V (+/- 0,5v)
Max Camera Power : 45W
CPU Size: ½ RU deep 29cm Weight: 1,5 Kg
CCA Belt Pack Size: 130 x 105 x 33 mm
Weight; 675 g. Cable Tail included
CCA Cable Tail length to Camera: 130 cm
Operating temperature: -20 °C to 40 °C

CCA Locking Modes: V-Lock and/or Belt pack
CCA normally slightly warm up
Max cable length is load dependent
HXC-FB80 with viewfinder >700m



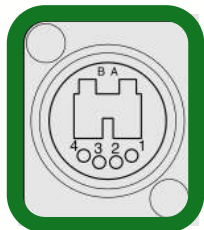
Customised Version
on Request



Preliminary

SPU12 – Quick Manual

NEUTRIK Green
Connect here the
Hybrid Cable to
Camera Adapter



Pin	Signal
A	Optical Input
B	Optical Output
1	NC
2	NC
3	NC
4	NC

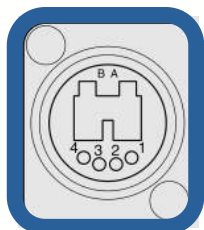
Optical Fibers:
Singlemode Pair
LC-LC or SC-SC



Note:

Neutrik Opticalcon DUO Lite was selected to allow usage of Hybrid cables on input (power unused) and for it's own internal fiber protection when **LC-LC** fiber pair are used. Max distance from Camera CCU: 8 Km

NEUTRIK Blue
Connect here the
Hybrid Cable to
Camera Adapter



Pin	Signal
A	Optical Input
B	Optical Output
1	DC Out (-)
2	Acknowledge
3	Acknowledge
4	DC Out (+)

LEMO - SMPTE

Connect here the
Hybrid Cable to
Camera Adapter



Hybrid Connector:

Neutrik-DUO or Lemo-SMPTE

Note:

Power Unit do not supply energy to Hybrid Cable until Camera Adapter is physically connected. One second after handshake the energy is enabled. All 4 wires of SMPTE are used.

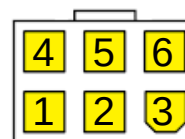
MAIN Connector



Power Input
90 – 280 Vac
Fuse: T1.5A
5W without Camera
50W max load

SPU-LFB Lemo Separator (Default Pin-Out)

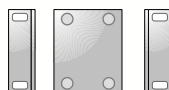
1-4 Black - Power
3-6 White - Power
2 Red Sense
5 Blu Sense



Copper not used by SPU12 - Customized Pinout on request

Power Unit Rack Mounting:

Two ½ RU Power Units may be mounted side by side in 1RU with supplied adapters



Installation

Simply fix the Rack mount 'L' on sides with supplied screws. Remove the 2 screws on joining side of front panel and set the '4 holes' plate to connect the two ½ rack then reinstall the removed screws

Specifications:

Main Input: 90-280Vac
Voltage to Camera: 13,5 V (+/- 0,5v)
Max Camera Power : 75W
CPU Size: ½ RU deep 29cm Weight: 1,5 Kg
CCA Belt Pack Size: 130 x 105 x 33 mm
Weight; 675 g. Cable Tail included
CCA Cable Tail length to Camera: 130 cm
Operating temperature: -20 °C to 40 °C

CCA Locking Modes: V-Lock and/or Belt pack
CCA normally slightly warm up
Max cable length is load dependent, up to 750m



*Customised Version
on Request*



Operating Instructions - (ENGLISH)

Before operating the unit, please read this manual thoroughly



WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

THIS APPARATUS MUST BE EARTHED.

This product with the CE marking complies with the EMC Directive issued by the Commission of the European Community.

Compliance with this directive implies conformity to the following European standards:

- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environment: E4 (controlled EMC environment, ex. TV studio).

Important Notes on Operation

Use and storage locations

Store in a level, ventilated place. Avoid using or storing the adaptor in the following places.

- In excessive heat or cold. Operating temperature range is 5°C to 40°C (41°F to 104°F).
- Locations where the adaptor may be exposed to rain or subject to violent vibration
- Near strong magnetic electromagnetic fields.
- In direct sunlight or close to heaters for extended periods

Do not subject to strong shocks. Do not drop the adaptor or subject it to strong shocks. The devices may be damaged.

Do not wrap in a cloth or other covering during operation. Internal temperatures may rise, causing malfunctions.

Note: Design and specifications are subject to change without notice

Istruzioni per l'uso - (ITALIANO)

Leggere attentamente questo manuale prima di utilizzare l'unità



AVVERTENZE

Per ridurre il rischio di incendi o scosse elettriche, non esporre questi apparati alla pioggia o all'umidità.

Per evitare scosse elettriche, non aprire l'involucro. Per l'assistenza rivolgersi unicamente a personale qualificato.

QUESTO APPARECCHIO DEVE ESSERE COLLEGATO A MASSA.

Questo prodotto recante il marchio CE è conforme sia alla direttiva sulla compatibilità elettromagnetica (EMC) emessa dalla Commissione della Comunità Europea.

La conformità a queste direttive implica la conformità alle seguenti normative europee:

- EN55103-1 : Interferenza elettromagnetica (Emissione)
- EN55103-2 : Sensibilità ai disturbi elettromagnetici (Immunità)

Questo prodotto è destinato all'uso nel seguente ambiente elettromagnetico:

E4 (ambienti EMC controllati, ad esempio studi televisivi).

Note importanti sul funzionamento

Luoghi d'uso e conservazione

Conservare in un luogo piano e ventilato. Evitare di usare o conservare l'adattatore nei seguenti luoghi.

- In luoghi eccessivamente caldi o freddi. L'intervallo delle temperature di funzionamento è compreso tra 5°C e 40°C (41°F e 104°F)
- In luoghi in cui gli apparati potrebbero essere esposti a pioggia o soggetti a vibrazioni violente
- In prossimità di forti campi magnetici elettromagnetici.
- Sotto la luce diretta del sole o vicino a radiatori per un periodo di tempo prolungato

Non sottoporre a urti violenti. Non fare cadere gli apparati o sottoporli a urti violenti. In questi casi potrebbero venire danneggiati.

Non avvolgere in un panno o altracopertura durante il funzionamento

NOTA: Il progetto e le specifiche sono soggetti a modifiche senza necessità di notifica previa