

SEDP SMPTE 311M Emulator with 180VDC Power for Use with Sony HSC100RF & HSC300RF Cameras

- Provides 180VDC to power camera and extends distance without heavy SMPTE cable.



Camera End

Enhanced Video Solutions

Product Overview

The **SEDP-ST-CAM Series** emulates the Camera to CCU connection that the SMPTE cable would make, but without the need for the copper conductors. It passively passes the optical video signals in/out over two singlemode fibers with ST connectors.

It may be used with Sony HSC100RF and HSC300RF Camera systems and distance can be extended over fiber without the need for the heavy hybrid SMPTE cable to/from the CCU.

The box adapts the SMPTE cable from the camera to two ST connectors for use with lighter 2-fiber cables without copper.

Only after a SMPTE cable is connected between the camera and the SEDP box does it provide 180VDC power to the camera.

Note that the Sony HSCU300RF CCU has a menu item that permits turning the laser diode on.

With the laser diode enabled the CCU does not need an electronic “handshake” with the camera over a SMPTE 311M hybrid cable.

The CCU end will just need a commercially available SMPTE 304M Connector Female-to-Duplex ST Connector Adapter. (Contact us if you need a recommendation.)

Key Features

- Emulates SMPTE cable connection between camera and CCU.
- SEDP box may be connected via 2 singlemode fibers between SEDP box and CCU adapter.
- Requires SMPTE 304M connector to ST adapter at CCU end. (Consult factory for recommendation.)
- Passively transmits optical video signal over 2 singlemode fibers between Sony HSC100RF Camera and HSCU100RF CCU or between HSC300RF Camera and HSCU300RF CCU.
- Powers camera with 180VDC when SEDP box is connected with SMPTE hybrid cable/connectors.
- Power: INPUT 100-240VAC 50/60Hz.
OUTPUT 180VDC
- Power Usage: 144 watts max.
- Safety circuit only provides power to camera after SMPTE hybrid cable/connector is connected between Camera and SEDP box.
- Connector Interface: SMPTE 304M Male for cable connection to camera.
- Connector Interface between SEDP and CCU Adapter: ST (x2)
- Transmission Distance: Depends on camera/CCU optical budget. The ST-ST connection in the SEDP has approximately 0.25 dB insertion loss.
- Size, Width x Length x Height:
Two will fit into the width of a 2RU x 19-inch rack.
Overall with Handle and Connector
8.75 x 15.375 x 3.47 inch; 22.2 x 39.1 x 8.8 cm
Box Body without Handle or Connector
8.75x 13.875 x 3.47 inch; 22.2 x 35.2 x 8.8 cm

Ordering Information

Part Number	Description	Approximate Shipping Size and Weight
SEDP-ST-CAM-D	SEDP box with ST connectors and IEC power cable with US wall plugs.	13 x 20 x 8 inch 33 x 51 x 20 cm 10 lbs 4.5 Kg
SEDP-ST-CAM-E	SEDP box with ST connectors and IEC power cable with European wall plugs.	
SEDP-ST-CAM-U	SEDP box with ST connectors and IEC power cable with UK wall plugs.	

Note: Consult factory for other connector options such as LC and SC.

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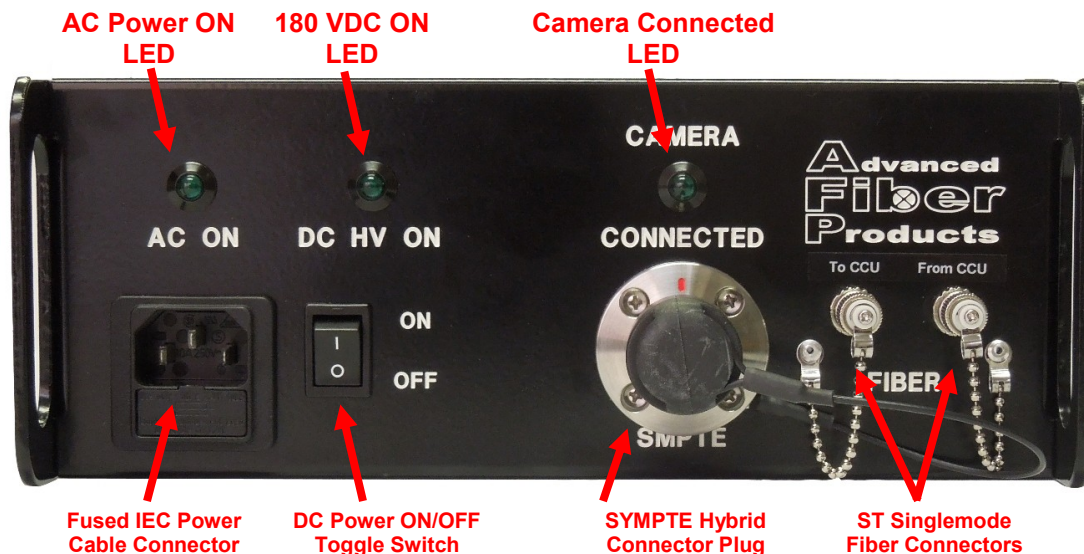
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SEDP Series Product Sheet
Rev 14253.00

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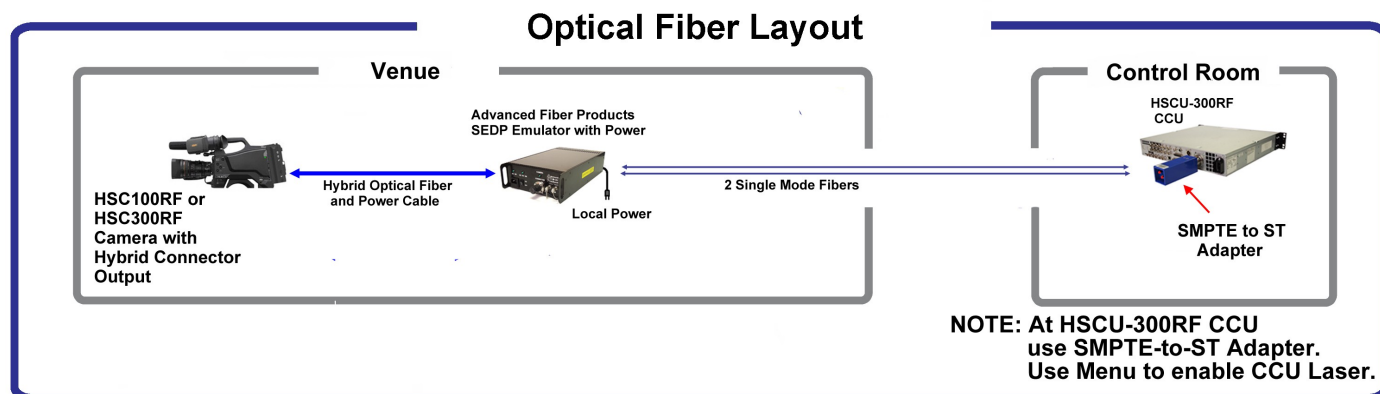
INPUT/OUTPUT PANEL



Step	Connection Instructions (Sequence is not important.)	LED Indicator Status
1	Connect IEC power cable to SEDP.	AC Power LED lights Green
2	Toggle DC power switch to ON.	DC HV ON LED lights Green
3	Connect SMPTE cable to SEDP and Camera.	Camera Connected LED lights Green

NOTE: Remember to enable laser diode on the CCU menu.

Camera - SEDP - CCU Layout



Advanced Fiber Products, LLC (AFP-US) develops and manufactures active optical devices engineered and packaged to withstand the rigors of broadcast production and many industrial environments. The devices are designed to convert signals from electrical to optical domain, aggregate, multiplex and de-multiplex them and provide transmission via ruggedized cabling solutions. AFP also offers a wide range of ancillary components in addition to specialized fiber assemblies related to high performance optical hermeticity, laser-to-fiber or fiber-to-detector delivery and integration into complete packaging solutions. AFP-US located near Chicago, Illinois, USA is a wholly owned subsidiary of **Advanced Fiber Products Ltd. (AFP)**. The company is headquartered at Haverhill, near Cambridge in the United Kingdom.



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