## Overview

The 6G-SDI Extender is a unique new solution from Muxlab for extending SDI based cameras or other SDI sources up to 4K resolution up to 500 feet (150m).

Standard Cat5e/6 UTP cable is used for the extension. The pair of units (Transmitter, Receiver) use PoE for power and only require the Receiver (Rx) side to be powered. The input source for the 6G-SDI Extender is HD-SDI using four coax cables, 3G-SDI using two coax cables, and 6G-SDI using a single coax cable.
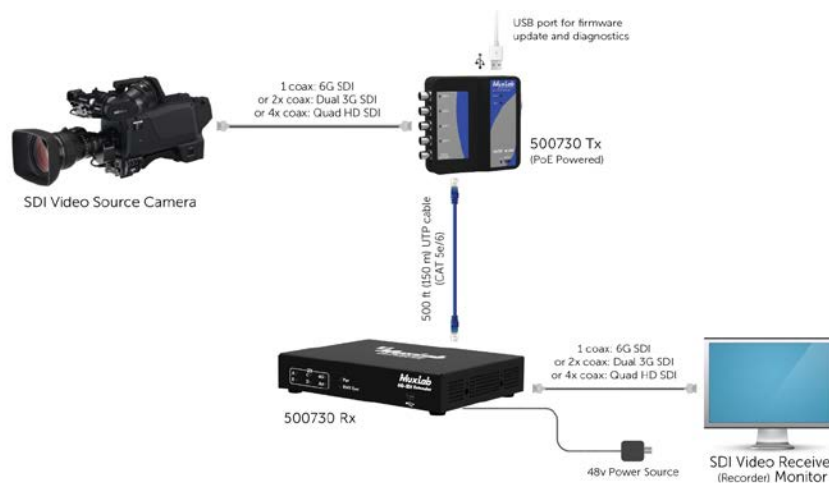
## Applications:

- Cinema recording
- Movie making
- Studio production
- News coverage / live reporting

## Key Features:

- Up to 500 feet (150m) over UTP
- HD-SDI using single, two or four coax cables, 3G-SDI using single or two coax cables, 6G-SDI using a single coax cable
- Maximum resolution supported: 4K/30
- Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M
- Supports all 6G channel configurations (1/2/4)
- Automatic SDI Link recognition and configuration
- USB interface for field upgradable firmware and diagnostics
- PoE to power supply to the Transmitter (Tx)
- Ethercon Connectivity and Aluminum Enclosure for ruggedized use

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| Specification Chart | |
|---|---|
| **Environment** | 6G-SDI digital signal transmission |
| **Enclosure** | Metal box,  approx. 5.6"x4"x1" (RX)  / 4.3" x 4.3" x 1" (TX) |
| **Color** | Black |
| **Control** | Serial console emulation with USB interface |
| **Front panel (RX)** | Mini USB for firmware updates status LEDS |
| **Rear panel (RX)** | +48 V power jack<br>BNC for SYNC input signal<br>RJ45 for UTP cable between RX and TX unit<br>4x BNC, SDI output connectors |
| **Front panel (TX)** | BNC for SYNC output signal<br>4x BNC SDI output connectors |
| **Rear panel (TX)** | RJ45 for UTP cable between RX and TX unit |
| **Top panel (TX)** | Mini USB for firmware updates status LEDS |
| **Connectors (SDI in)** | 4 BNC connector for SDI input ( 0.8V pp, 75 ohm ) |
| **Connectors (SDI out)** | 4 BNC connector for SDI output ( 0.8V pp, 75 ohm ) |
| **Connectors (sync)** | 2 BNC connectors |
| **Connectors (control)** | Mini USB, for configuration and firmware updates |
| **Connectors (UTP )** | RJ45 / Ethercon, for UTP communication |
| **Connectors – power** | One standard 2.1mm power jack |
| **Compliance** | FCC, CE, RoHS |
| **Power** | 48V external power supply with US, UK and Euro blades |