



## MuxLab's 6G-SDI Extender over Fiber Optic Provides Back-End Connectivity at Rio Olympics Success Story



*"We are proud to have been a part of facilitating the broadcasting of the Rio Olympics," said Daniel Assaraf, President of MuxLab. "We strive to develop products that help solve real life challenges in the A/V world and take great pleasure in knowing that our customers benefit from utilizing MuxLab products."*

**I**mmersive Media, an innovative provider of 360-degree video capture content, was tasked with a massive challenge in broadcasting at the Rio 2016 Summer Games. The sheer size of the event, the great distances that content had to travel, and the limited interconnectivity cable infrastructure in place provided a unique situation.

"At this monumental event, the distances between the venues and our control rooms were vast. Numerous signals had to be transmitted up to 65 kilometers in distance over a limited number of fiber optic cable runs," explained Immersive Media's Technical Director, Lance Van Nostrand.

In all, they laid approximately 2,400 kilometers of fiber cabling around the arenas and various venues in order to support multiple 360-degree cameras. To simplify and optimize the installation and ensure the highest quality video, Immersive Media specified and ran with one single fiber for each 4K video camera feed.

"The event presented several difficult challenges that MuxLab's 6G-SDI Extenders over Fiber Optic

simply solved while other solutions were more complex or incomplete," added Van Nostrand.

Multiple HD video feeds had to be transmitted throughout the Olympics, and the Extender's multiplexing capability enabled Immersive Media to group four feeds and send them along one fiber cable to streamline the installation.

"Alternative solutions I had looked at were single chassis-based and less flexible. Plus, when the scope of the project inevitably changed, in cases where we had to add more cameras or support a new venue with little lead time, the 6G-SDI Extenders allowed us to be flexible and accommodate these changing requirements," said Van Nostrand.

MuxLab offers several models of 6G-SDI Extenders, some support UTP and others Fiber, while some support a return channel for AV monitoring, tally light, talk-back and camera control unit (CCU). These devices support all SDI configurations (using 1, 2 or 4 BNCs) up to UHD-4K.

Automatic SDI link recognition and configuration and RS232 pass-through are provided.

# Our Line of 6G-SDI Extenders



## 6G-SDI Extender Over UTP

Part# 500730



## 6G-SDI Extender over Fiber Optic

Part# 500732



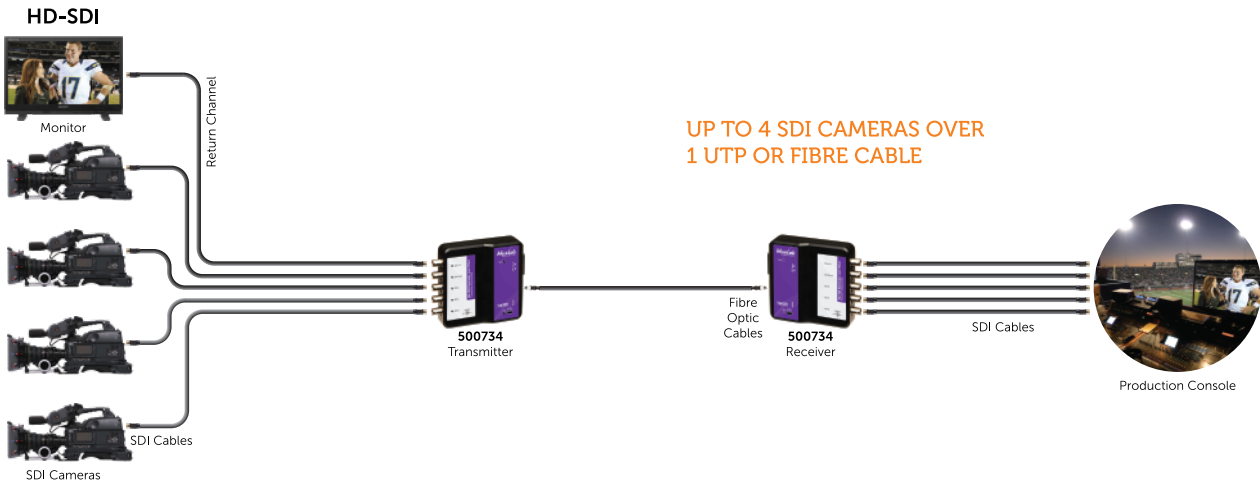
## 6G-SDI Extender Over UTP with Ethernet

Part# 500733



## 6G-SDI Extender Over Fiber Optic with Return Channel

Part# 500734



**About MuxLab:** MuxLab is a leading designer of value-added connectivity hardware for the Pro AV, Broadcast, and CCTV markets. Since 1984, we have continued to support our main mission to provide our customers with innovative and industry leading designs and the dependability you need. MuxLab understands the need for quality, performance, and reliability and we design & engineer our products in Canada with this focus in mind. For over 30 years, MuxLab has been at the forefront of the advances in signal distribution and connectivity. Keeping up with emerging technology, our goal is to provide easy to use and affordable solutions for transferring all forms of Audio/Video, Broadcast, and CCTV signals. Let us join you on your next installation and help transmit your signals with ease.

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