

FieldCast



FieldCast Multiplexers

Currently, we have three basic models, Mux/Demux One, Mux/Demux Two, and Mux/Demux Three.

Mux/Demux One is a 4 channel solution;
Mux/Demux Two is an 8 channel solution;
Mux/Demux Three is a 16 channel solution.

Except for the number of channels the three models work exactly the same way. They go one way, doing 4 channels, 8 channels, or 16 channels of SDI video from A to B over just one single mode fiber connection. The technology we use guarantees connections up to 40 kilometers straight line.

By default, we ship with LC connector, but it is no problem to do ST or SC.

The multiplexer has SDI input with reclocked loopthrough for each channel. The demultiplexer has two SDI outputs for each channel.

Standard models are 3G video.

We can customize all three models in such a way that for every channel the customer can decide which channel goes from A to B and which channel goes from B to A. For instance, a Mux/Demux One set can have the standard 4 channels from A to B but also can have 3 channels A to B and 1 channel B to A.

We have made a few diagrams to explain basic technology (to keep it easy to grasp they don't show loopthrough at the SDI input side, and the second SDI output at the output side). [Figures 12](#) and [figure 13](#) are the diagrams for 4 channel and 8 channel versions. Just double the 8 channel version, and you will have the diagram of the 16 channel version. As can be seen in [figure 18](#), we can combine SDI and Ethernet in a custom solution. We can do other custom builds as well, on request.

the fiber optic system

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