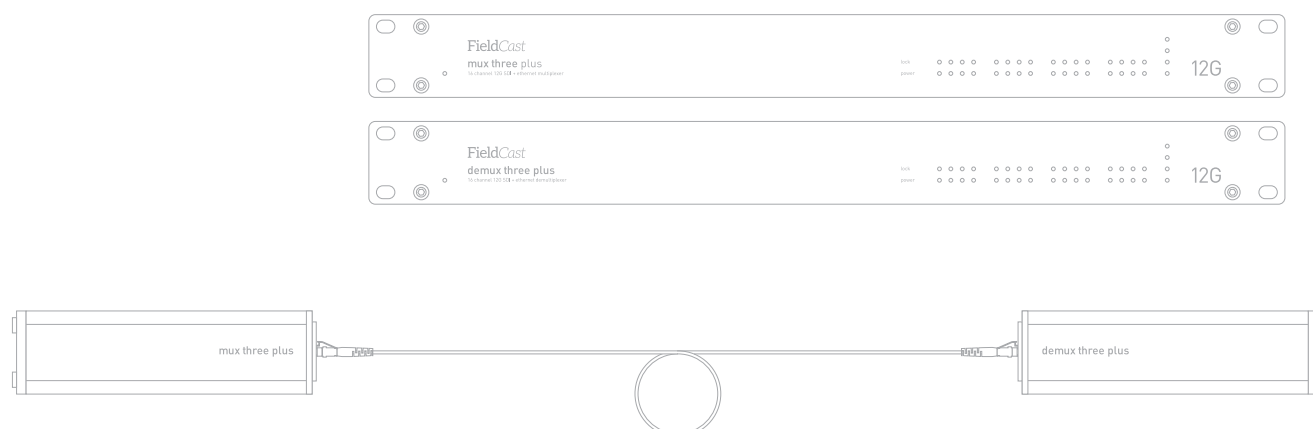# mux three plus 12G / **demux three** plus 12G

Mux Three Plus 12G and its twin brother Demux Three Plus 12G allow you to transport sixteen independent channels of 12G SDI video plus full duplex 1Gb Ethernet over just one fiber optic channel.

Is your infrastructure such that you only have access to one single mode (simplex) fiber optic connection, Mux Three Plus and Demux Three Plus can help you to get this all done, plain and simple.

Or else, do you want to roll out a minimum number of cables in live events environments, just use Mux Three and Demux Three, multiplex up to sixteen channels of video plus ethernet and get all data from A to B using only one strand of fiber!
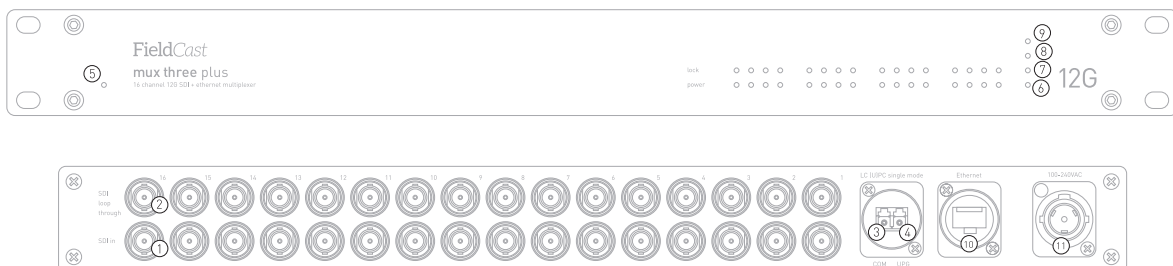
No hidden processing involved! All 12G video signals preserve full data integrity! What goes in comes out, unchanged. And the Ethernet connection simply behaves like a Cat5 cable connecting your

FieldCast

specifications
mux three plus 12G

- 16 channel SDI input to 1 channel fiber optic output multiplexer

- 1RU all aluminum enclosure design

- 9/125 single mode fiber optic technology

- sixteen 12G (11.88Gb) SDI input channels (1), each with SDI loopthrough (2)

- 75ohm BNC oonnectors for all SDI inputs and loopthrough outputs

- complies with SMPTE 259M, SMPTE 344M, SMPTE 292M, SMPTE 424M, SMPTE ST 2081 and SMPTE 2082

- accepts all SD and HD standards up to 1080p60

- one LC single mode (U)PC fiber optic channel (COM) for all SDI signals and ethernet (3)

- one LC single mode (U)PC fiber optic upgrade (UPG) channel (4)

- Ethernet protocol: IEEE802.3U IEEE802.3z 1000Base-TxFx

- UTP RJ-45 connector for Ethernet, full duplex or half duplex (10)

- black front panel with 2mm. warm white led indicators

- one led indicator for power (5)

- led indicators for channel module activity (6), input activity (7), TP/LNK (8) and 1Gb (9)

- power consumption $\leftarrow$ 50W

- proprietary hybrid WDM multiplexing technology for ultra low dispersion

- minimum distance between Mux and Demux unit $\rightarrow$ 10km. for all wavelengths

- 110-240VAC input with PowerCon connector (11)

- dimensions: 482(W) x 155(D) x 43(H) mm.

- weight: 2090 grams, total weight boxed product: 2200 grams

- comes with manual and local power cord

specifications
demux three plus 12G

- 1 channel fiber optic input to 16 channel SDI output demultiplexer

- 1RU all aluminum enclosure design

- 9/125 single mode fiber optic technology

- ssixteen 12G (11.88Gb) SDI channels with dual SDI output (1)(2)

- 75ohm BNC oonnectors for all SDI outputs

- complies with SMPTE 259M, SMPTE 344M, SMPTE 292M, SMPTE 424M,
  SMPTE ST 2081 and SMPTE 2082

- accepts all SD, HD and UltraHDstandards up to 2160p60

- one LC single mode (U)PC fiber optic channel (COM) for all SDI signals and ethernet (3)

- one LC single mode (U)PC fiber optic upgrade (UPG) channel (4)

- Ethernet protocol: IEEE802.3U IEEE802.3z 1000Base-TxFx

- UTP RJ-45 connector for Ethernet, full duplex or half duplex (10)

- black front panel with 2mm. warm white led indicators

- one led indicator for power (5)

- led indicators for channel module activity (6), input activity (7), TP/LNK (8) and 1Gb (9)

- power consumption ← 50W

- proprietary hybrid WDM multiplexing technology for ultra low dispersion

- minimum distance between Mux and Demux unit → 40km. for all wavelengths

- 110-240VAC input with PowerCon connector (11)

- dimensions: 482(W) x 155(D) x 43(H) mm.

- weight: 2100 grams, total weight boxed product: 2200 grams

- comes with manual and local power cord