SDIXtreme 3G+

Dual Loop-Out 3G SDI Fiber Optic Extension

QUICK START GUIDE

The Logical Solution - Dual Serial Digital Interface Extension. The **SDIXtreme³G⁺** product series is a compact, broadcast quality, SDI over fiber extension system. The dual system is designed to transmit up to two 3G (2.97 Gb/s) or four SD (270 Mb/s)/HD (1.485 Gb/s) SDI signals with or without embedded audio and data, and is SMPTE 424M, 292M, 259M, 372M and 425 level A and B compliant. In addition, this fiber based transport system gives users the assurance that each signal is immune to video pathological signals over the entire length of the fiber interconnect, while supporting all pathological patterns at all rates using standard SFPs. The system also supports either single or multi-mode fiber and is fully compatible with Thinklogical's VX and HDX Router line of products.

3G, SD, HD SDI Loop Out 1

3G, SD, HD SDI Source 1

RS422

3G, SD, HD SDI Source 2

3G, SD, HD SDI Source 3

RS422

Sources

STEP 6: Install the provided +5VDC power supply to the **SDIXtreme³G⁺ Transmitter** and plug it into a standard AC source. Ensure that the ACTIVE LED on the Transmitter comes on. The ACTIVE LED will blink if no SDI input is present.

STEP 7: Connect your 3G or SD/HD SDI video sources to the **SDIXtreme³G⁺ Transmitter's IN Ports**. If using RS422, connect the devices' RS422 ports to the Transmitter's RS422 Ports located directly below the BNC ports.
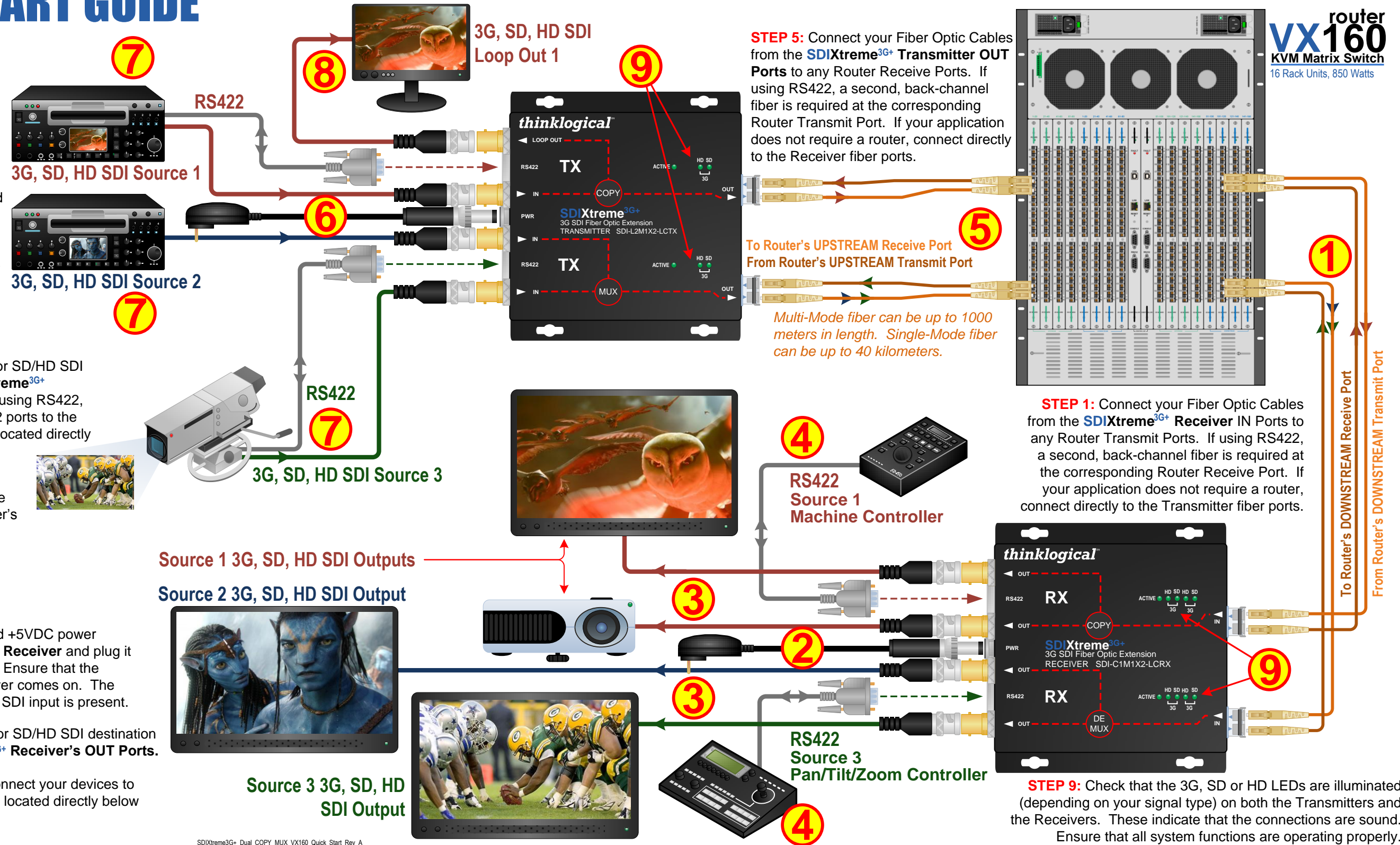
STEP 8: A Local Monitor or other viewing device may be connected to the Transmitter's LOOP OUT port.

Destinations

STEP 2: Install the provided +5VDC power supply to the **SDIXtreme³G⁺ Receiver** and plug it into a standard AC source. Ensure that the ACTIVE LED on the Receiver comes on. The ACTIVE LED will blink if no SDI input is present.

STEP 3: Connect your 3G or SD/HD SDI destination devices to the **SDIXtreme³G⁺ Receiver's OUT Ports.**

STEP 4: If using RS422, connect your devices to the Receiver's RS422 ports located directly below the BNC ports.

Source 1 3G, SD, HD SDI Outputs

Source 2 3G, SD, HD SDI Output

Source 3 3G, SD, HD SDI Output

RS422 Source 1 Machine Controller

RS422 Source 3 Pan/Tilt/Zoom Controller

STEP 5: Connect your Fiber Optic Cables from the **SDIXtreme³G⁺ Transmitter OUT Ports** to any Router Receive Ports. If using RS422, a second, back-channel fiber is required at the corresponding Router Transmit Port. If your application does not require a router, connect directly to the Receiver fiber ports.

To Router's UPSTREAM Receive Port
From Router's UPSTREAM Transmit Port

Multi-Mode fiber can be up to 1000 meters in length. Single-Mode fiber can be up to 40 kilometers.

router VX160
KVM Matrix Switch
16 Rack Units, 850 Watts

To Router's DOWNSTREAM Receive Port
From Router's DOWNSTREAM Transmit Port

STEP 1: Connect your Fiber Optic Cables from the **SDIXtreme³G⁺ Receiver** IN Ports to any Router Transmit Ports. If using RS422, a second, back-channel fiber is required at the corresponding Router Receive Port. If your application does not require a router, connect directly to the Transmitter fiber ports.

STEP 9: Check that the 3G, SD or HD LEDs are illuminated (depending on your signal type) on both the Transmitters and the Receivers. These indicate that the connections are sound. Ensure that all system functions are operating properly.

thinklogical — TX, COPY, MUX, SDIXtreme³G⁺ 3G SDI Fiber Optic Extension TRANSMITTER SDI-L2M1X2-LCTX

thinklogical — RX, COPY, DE MUX, SDIXtreme³G⁺ 3G SDI Fiber Optic Extension RECEIVER SDI-C1M1X2-LCRX

SDIXtreme3G+_Dual_COPY_MUX_VX160_Quick_Start_Rev_A

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