Quick Contents

Section 5: Applications

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Overview

This section provides setup instructions for interfacing Dveous/MX to other video systems. Dveous/MX is a highly flexible and powerful digital video effects processor, equally capable of being used directly on-air, live-to-tape, or in a post production environment. Topics covered are:

- External Aux Bus control
- GVG CPL(Control Protocol Language)
- Timeline Control

More information on Dveous/MX settings can be found in Section 6 - Setup Menus.

Note: Please contact the manufacturer of the system you would like to connect to Dveous/MX for complete information on connection and operation.

External Aux Bus Control

The Dveous/MX remote ports can be used to make source selections on the aux buses of the many video switchers. Most of them use a standard protocol and cable to communicate. Dveous/MX can control Aux Buses of the following switchers:

- GVG200
- GVG300
- Abekas 8150
- Sony DVS
- Sony MVS

and any switcher able to emulate the above protocols

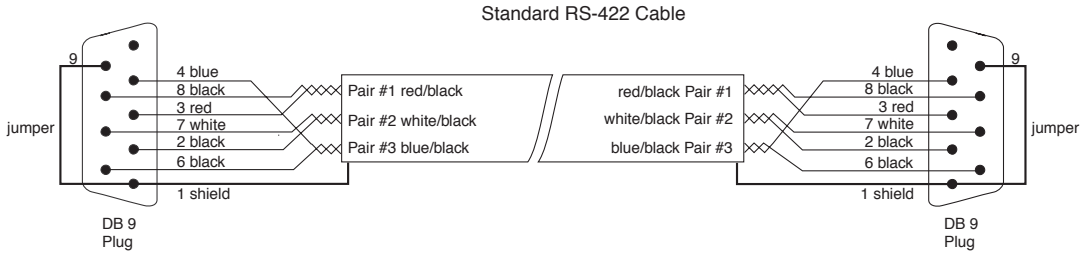
When properly configured, Dveous/MX allows you to select a switcher Aux Bus for source input. You can then control up to 128 crosspoints of the switcher from the Dveous/MX input menu by using the A softknob.

To configure Aux Bus Control you will:

- Use a standard RS-422 cable to connect Dveous/MX to the switcher serial control port.
- Connect the switcher Aux bus outputs to Dveous/MX input 1, input 2, input 3 and input 4.
- Configure the Dveous/MX remote port for Aux Bus protocol.
- Configure the video switcher remote port.
- Select Aux Bus as input on Dveous/MX.

RS-422 Control Cable

The remote port, when set for Aux Bus protocol is internally configured for RS-422 communication. We recommend twisted-pair cable be used as shown below.



Aux Bus Video Cabling

- When Aux Bus control is selected in the Dveous/MX, each DVE channel defaults to one external input. (some switcher aux buses may be designated 1A, 1B, etc. rather than Aux 1, Aux2, etc.).

Dveous/MX allows you to remap Aux Buses to use different ones than described below. This funcion appears in the REMOTE SETUP menu when Aux Bus protocol is selected.

The following is a basic setup using switcher Aux Buses 1-4.

- Dveous/MX channel 1A controls Aux 1 or 1A, which must be connected to Input 1
- Dveous/MX channel 1B controls Aux 2 or 1B, which must be connected to Input 2
- Dveous/MX channel 2A controls Aux 3 or 2A, which must be connected to Input 3
- Dveous/MX channel 2B controls Aux 4 or 2B, which must be connected to Input 4

Configure the Dveous/MX REMOTE Port

Note: For settings to take effect, you must change Protocol back to Sony or SMPTE, set the Baud Rate to 38400 and Parity to Odd.

Note: When making any changes to Dveous/MX remote settings, it is recommended that you first turn the port off, make your changes, then turn the port back on in order to not lose communications.

On the Dveous/MX main control panel, use the Remote Enable menu to turn on the serial port you are using (remote 1, 2 or 3) and select:

- Protocol - Aux Bus
- Config - Switcher Type
    - 8150 (Abekas)
    - GVG 200
    - GVG 300
    - Sony
- Control - (Leave as default unles you wish to remap Aux Buses as described earlier.)

Configure the Switcher Remote Port

Check with switcher manufacturer for exact setups required. Protocol, baud rate and parity settings on switcher must match those on Dveous/MX.

Select Aux Bus as Input

In the Dveous/MX Input Menu, scroll softknob A (Type), to Aux Bus. When this is selected, the Xpnt (crosspoint) selection appears on the B softknob. Here you can choose one of 128 crosspoints on your video switcher (0-127) for use as an input to Dveous/MX.

GVG CPL Control

Dveous/MX includes CPL Protocol that allows devices to control Dveous/MX. It allows you to recall and run DVE effects as part of the switcher timeline. It allows Dveous/MX to select sources on the switcher Aux bus outputs and tally them at the switcher when they are visible in the DVE video output.

Cable Connections

A cable is required to be connected between the desired Dveous/MX remote port and the Grass Valley switcher serial remote port. This is a standard 422 cable.

Configure the Dveous/MX REMOTE Port

Note: When making any changes to Dveous/MX remote settings, it is recommended that you first turn the port off, make your changes, then turn the port back on in order to not lose communications.

On the Dveous/MX main control panel, use the Remote Enable menu to turn on the serial port you are using (remote 1, 2 or 3) and select:

- Protocol - CPL

When CPL protocol is selected, Dveous/MX automatically sets the Baud Rate to 79800 and Parity to Odd.

Switcher configurations vary. Please check with the switcher manufacturer or switcher operations manual for proper CPL setup.

Timeline Control

Along with Aux Bus and CPL, Dveous/MX also supports Sony, SMPTE, Peripheral and A53D protocols. Use these for timeline control of the Dveous/MX as a VTR from your external device.

A53D protocol is used by Thomson DD series, XTendd, Seraph and XTenHD for timeline control of the Dveous/MX.

Peripheral is used by GVG and Sony switchers operating under P-Bus control.

Contact Accom technical support or your switcher manufacturer for more detailed information on interconnecting these devices.