VLS771-2

VIDEO LOSS SWITCHER

INSTALLATION MANUAL

IB 628201

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DESCRIPTION

The **VLS771-2 VIDEO LOSS SWITCHER** is an automatic 2X1 Stereo audio follow video switching system that reacts to the loss of Horizontal Sync pulses. This device monitors the Primary video source and switches both video and Left and Right Stereo balanced audio sources to the secondary when the primary video signal ceases. The unit switches back to the primary channel when the video returns. This system uses (PLL) Phase-Lock-Loop technology to prevent false triggering due to high noise video signals. Use this unit on video from satellite receivers or microwave systems that exhibit high noise when video fails. If a power failure occurs the unit will automatically switch to the Primary video and audio.

The unit can be used to engage a hot standby source or to put up a test pattern when main video fails. This system will maintain your video and stereo audio integrity and reduce trouble calls. It can also be used where unattended video switching must occur.

FEATURES

Features of the VLS771 include a front panel three position command switch which is used to manually force either primary (A), secondary (B), or automatic video and audio switching.

Also included are Presents of video front panel LEDs which indicates the status of the video on the primary and secondary channel. A Green LED indicates (A channel on), a Red LED indicates (B channel on).

Standard BNC connectors are used for the video inputs and output, and a plug-in style removable screw terminal connector is used for the balanced stereo audio inputs and outputs. This audio plug can be pre-wired to reduce your installation time.

This switcher is housed in a sturdy aluminum die cast box which is completely RF shielded. The box can be mounted in the front or rear of your rack with the standard mounting bracket. An optional 19" mounting bracket is available. The ordering part number is PMS700-5A. It holds 5 units and has a common wall mount power supply to power all 5 units.

SET-UP AND INSTALLATION

Remove the equipment from the packing materials. The following materials should be supplied with each order.

QTY 1   VLS771 (Blue Box).
QTY 1Power Cube +24 VDC.
QTY 1   12 Position Plug Audio Connector (may be attached).
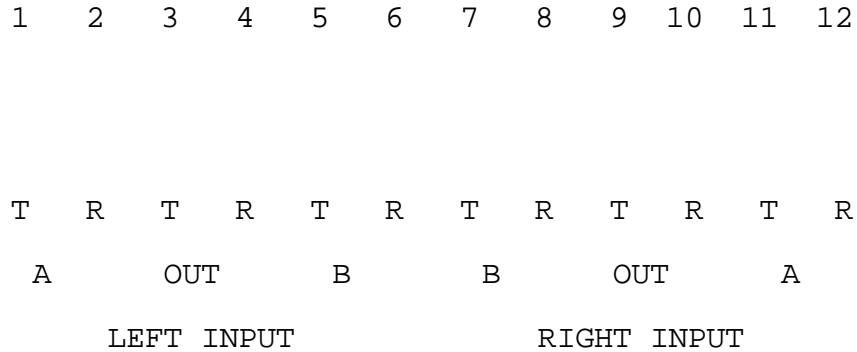QTY 1Rack Mount Angle Bracket (may be attached) or PMS7005A.

SET-UP AND INSTALLATION (continued)

Locate a convenient place in your rack and mount the unit using the handy Rack Mount Angle Bracket. Next attach the Primary video signal to the input BNC connector labeled (A INPUT). Then attach the Secondary video signal to the BNC connector labeled (B INPUT). The BNC connector labeled (COM OUTPUT) is the output of the video switch. The video that is selected either manually or automatically will appear at this connector.

The 12 position snap in audio connector is numbered from left to right, 1 to 12. The following is a table of the connections used to switch Balanced audio from Primary to Secondary input. This audio switch is accomplished by internal relay switching. In the event of power loss the audio is switched to the Primary audio.

1.   A input Left Tip or +
2.   A input Left Ring or -

3.   COMM output Left Tip or +
4.   COMM output Left Ring or -

5.   B input Left Tip or +
6.   B input Left Ring or -

7.   B input Right Tip or +
8.   B input Right Ring or -

9.   COMM output Right Tip or +
10. COMM output Right Ring or -

11. A input Right Tip or +
12. A input Right Ring or -

CONNECTOR BLOCK DIAGRAM

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    1   2   3   4   5   6   7   8   9  10  11  12


        T   R   T   R   T   R   T   R   T   R   T   R

          A      OUT      B       B      OUT      A

              LEFT INPUT              RIGHT INPUT
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When audio wiring is complete Plug in the power cube and attach the +24 VDC connector into the VLS771-2.

OPERATION

With video present on the Primary channel (A) the green VIDEO ON LED will be lit on the front of the unit. This indicates that video is present at the Primary input. On the front panel there is a Three Position **LOCKING SWITCH**, to move this switch it is necessary to **PULL OUT THE HANDLE OF THE SWITCH** before trying to change its position. **DO NOT FORCE THE SWITCH.** There are three command modes for the switch. The first is (A) this will cause the VLS771-2 to manually force the video and audio switch to the A input source. The second is (B) this will cause a manual switch to input B. The third position is (AUTO) which stands for AUTOMATIC, this will automatically switch the video from A to B when the video on A disappears and will switch back when the video reappears. In all modes of operation the audio switches with the video. If mono is to be switched the extra unused contacts of the VLS771-2 can be used to activate external alarms.

MAINTENANCE

There are no adjustments or calibration required with the VLS771-2.

SPECIFICATIONS

VIDEO	SPECIFICATION
Standard	NTSC or PAL (Auto-Select)
Level (Composite Video)	0.7 to 2 Vp-p (1.0 Vp-p STD.)
Frequency Response	$\geq$ 0.2 dB from DC to 40MHz
Cross-Talk (Pri/Sec input)	$\leq$ 75 dB
Signal to Noise Ratio	$\leq$ 90 dB
Frequency Response	Flat from Dc to 50KHz
Cross-Talk (Pri/Sec)	$\leq$ 80 dB
Cross-Talk (Left/Right)	$\leq$ 80 dB
Signal to noise ratio	$\leq$ 90 dB
Power requirement	24 VDC Power Cube (included)
Video Mode Switch	3 Position Locking Toggle
Enclosure	3.5 x 4.5 x 1.5 Die Cast Alm.