

Extron® Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



VS 200 SL - VIDEOSHIFT™/CRT & PLASMA SCREEN SAVER PRODUCT

CRT & Plasma Screen Saver

Helps Prevent Burn-in

15-150 kHz Compatible

Advanced Digital Sync Processing (ADSP™)

250 MHz RGB Bandwidth

Variable Shift Range

Test Mode

ShiftLock™

RGBHV Output

Horizontal Centering

Vertical Centering

Internal Power Supply



DESCRIPTION

Extron's VS 200 SL is a VideoShift™ product with ShiftLock™ and Advanced Digital Sync Processing (ADSP™) technologies. The VS 200 SL allows any RGB signal to be "orbited" or shifted around a CRT or plasma display so that computer data will not be burned into the CRT or plasma display phosphors. A common place to find CRT burn-in is on airport flight information monitors, where the information is stationary white text on a black background. The intense white characters will, after a brief time, burn the CRT phosphor area, causing discoloration. When the display is turned off or information changes, the old information is still legible.



Using Extron's digital sync circuitry, the VS 200 SL is capable of shifting all types of computer signals, both horizontal and vertical, so slowly that it is imperceptible to the eye. This movement (up to one-fourth or 25% of the image—set by range adjustment) is all that is required to help

prevent CRT or plasma display burn-in. Sync processing is through Extron's exclusive ADSP technology, ensuring compatibility with digital display devices (DLP, LCD, plasma, etc.).

ShiftLock Feature:

ShiftLock allows multiple VS 200 SLs to be "sync-locked" together, allowing for simultaneous shifting of multiple images (e.g., monitor/ projector walls). Because many installations that require VideoShift to preserve the life span of a CRT or plasma display have multiple projection screens side-by-side, ShiftLock must be installed so that all images will move horizontally and vertically at the same time and in the same direction.



FEATURES

- ShiftLock allows for "sync-locking" multiple VS 200 SLs (up to 17)
- Advanced Digital Sync Processing (ADSP)
- Easy to install with RGBS or RGBHV input signals
- Variable shift range affects horizontal and vertical pixel/line movement
- Imperceptible movement, horizontally and vertically
- Test mode allows for setup of image by shifting H&V fast so the image can be easily centered and sized
- Compatible with both interlaced and non-interlaced computer signals
- RGBHV output allows for the smoothest shifting
- Internal 100-240 volt, 50/60 Hz, auto-switchable power supply
- Rack mountable (two VS 200 SLs per rack)
- 1U, half-rack width enclosure

OPTIONAL ACCESSORIES

- 1U, 19" universal rack shelf 60-190-01
- SY VGA 26-173-01
- 15 HDM-RGBHVF 26-397-01
- SY MAC 35 26-171-01
- SY 15 DM-RGBSF 26-399-01

SPECIFICATIONS

Video

- Gain Unity
- Bandwidth..... 250 MHz (-3dB), fully loaded
- Frequency response..... <± 0.1 dB to 15 MHz

Video input

- Number/signal type..... 1 RGBHV, RGBS
- Connectors 5 BNC female
- Nominal level Analog—0.7V p-p
- Maximum/minimum levels Analog—0.3V to 1.25V p-p
- Impedance 75 ohms (all inputs are terminated at 75 ohms)
- Horizontal frequency..... 15 kHz to 150 kHz
- Vertical frequency 40 Hz to 140 Hz
- Return loss -30dB @ 5 MHz

Video characteristics

- Unit-to-unit tracking (ShiftLock)
 - Between units..... ± 0.5 nS accuracy
 - Long-term drift ± 0.5 nS accuracy
- < 0.1 pixels @ 60 kHz
- < 0.05 pixels @ 31.5 kHz

Video output

- Number/signal type..... 1 RGBHV, RGBS
- Connectors 5 BNC female
- Impedance 75 ohms

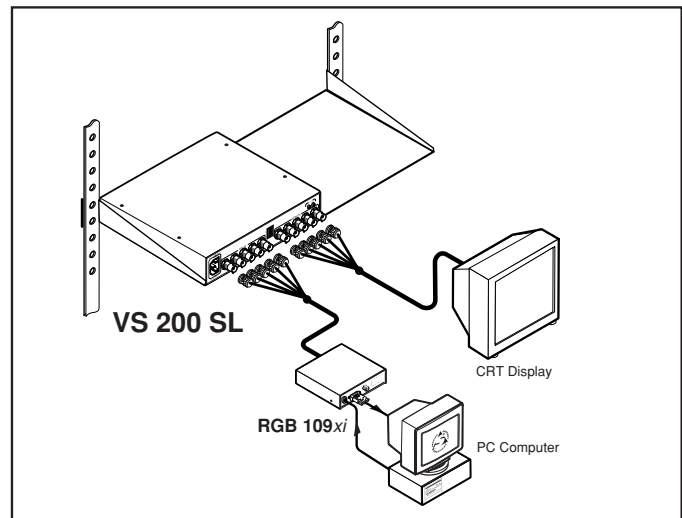
Sync

- Input type RGBHV, RGBS
- Output type RGBHV, RGBS
- ShiftLock connectors..... 2 female jacks (ShiftLock)
- Input impedance 510 ohms
- Output impedance 75 ohms

General

- Power 100VAC to 240VAC, 50/60 Hz, 12 watts, internal, auto-switchable
- Rack mount..... Yes, with optional 1U rack shelf, part #60-190-01
- Enclosure type Metal
- Enclosure dimensions 1.75" H x 8.75" W x 9.50" D
4.45 cm H x 22.2 cm W x 24.13 cm D
- Shipping weight..... 5 lbs (2.3 kg)
- Approvals..... UL, CUL, CE
- Warranty 2 years, parts and labor
- Part number 60-175-01

APPLICATION DIAGRAM



Extron Electronics, USA
1230 South Lewis Street, Anaheim, CA 92805
800.633.9876 714.491.1500 FAX 714.491.1517
USA

Extron Electronics, Europe
Beeldschermweg 6C, 3821 AH Amersfoort
+31.33.453.4040 FAX +31.33.453.4050
The Netherlands

Extron Electronics, Asia
135 Joo Seng Rd. #04-01, PM Industrial Bldg.
+65.383.4400 FAX +65.383.4664
Singapore 368363

Extron Electronics Information
ExtronWEB™: www.extron.com
ExtronFAX™: 714.491.0192
24-hour access—worldwide!