

Vertical Interval Switchers



The Kramer **VS-1201xl**, and **VS-1001xlm/Vs-801xlm/Vs-601xlm/Vs-401xlm** are high performance vertical interval switchers for composite video and stereo audio signals. One of 12, 10, 8, 6, 4 sources can be routed to one monitor, VCR, or other receiving device. Since switching is performed during the vertical interval, transitions are glitch-free when sources share a common reference sync. There are four ways to control the **VS-1201xl**: front panel buttons, RS-232, RS-485, and contact closure. It is designed to be combined for easy expansion of larger switching systems as well. For example, two **VS-1201xl**'s can be combined to form a 24x1, etc. Multiple units can also be operated in parallel for switching component signal formats. For example, two **VS-1201xl**'s could be linked to form a 12x1 switch for YC, three could be linked to switch YUV, etc. The **VS-1201xl** is dependable, rugged, and fits in one vertical space of a standard 19" rack. Video bandwidth of 250MHz ensures that it remains transparent even in the most critical production, presentation, or broadcast applications.



TECHNICAL SPECIFICATIONS

INPUTS:	12, 10, 8, 6, 4 composite/single component video, 1Vpp/75Ω, on BNC connectors. 12, 10, 8, 6, 4 audio stereo, + 4dBm, 10kΩ, on RCA connectors.
OUTPUTS:	1 external sync input (or composite video) 1Vpp/75Ω, on a BNC connectors. 1 x 3 composite/single component video, 1Vpp/75Ω on a BNC connectors. 1 x 3 audio stereo up to + 28Vpp/50Ω, (24dBm) on RCA connectors.
VIDEO BANDWIDTH:	250MHz - 3dB (typical).
AUDIO BANDWIDTH:	55 kHz, - 0.1 dB.
NON LINEARITY:	Less than 0.1%.
AUDIO THD+NOISE:	0.02%.
DIFF. PHASE:	0.03 Deg.
2nd HARMONIC:	< 0.003% (1kHz).
DIFF. GAIN:	0.04%.
AUDIO CROSSTALK:	- 79dB.
VIDEO S/N:	> 77dB.
AUDIO S/N RATIO:	> 90 dB, Unweighted.
K-FACTOR:	< 0.05%.
CONTROLS:	12 illuminated front-panel touch switches, RS-232, RS-485, contact closure.
DIMENSIONS:	19 inch (W), 7 inch (D) 1U (H) rack mountable.
POWER SOURCE:	230 VAC, 50/60 Hz, (115VAC U.S.A.) 16 VA (VS-1211).
WEIGHT:	3.1 kg (6.88 lbs.) approx.
ACCESSORIES:	Power cord, Windows® - based control software, Null modem adapter.

TYPICAL APPLICATIONS

- Video production studios.
- Live broadcast, for switching between cameras in real-time.
- CCTV and home theater systems.

