

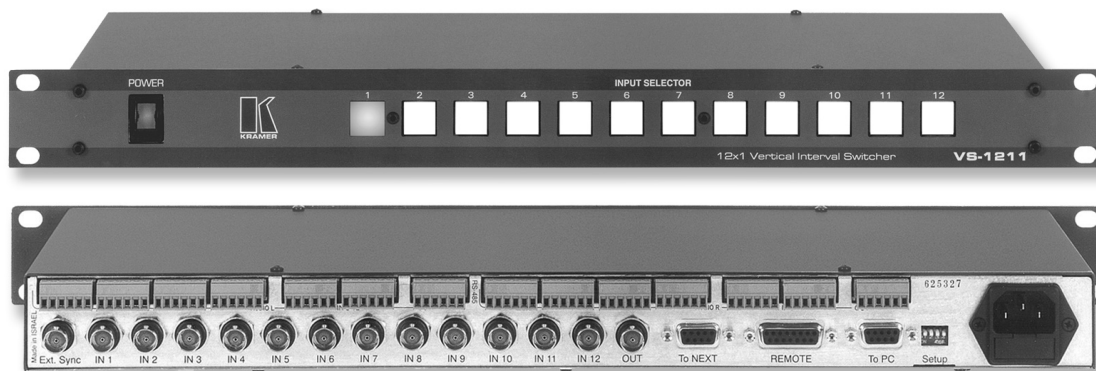
## VS-1211/VS-1011/VS-811/VS-611/VS-411

### Vertical Interval Video Audio Switchers

**GROUP 2**



The Kramer **VS-1211**, **VS-1011**, **VS-811**, **VS-611**, and **VS-411** are a family of high performance vertical interval switchers for composite video and balanced audio stereo signals. One of 12 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 a total of four ways to control the **VS-1211** family: front-panel buttons, RS-232, RS-485, and contact closure. They are also designed to be easily expandable for larger switching systems. For example, two **VS-1211s** 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-1211s** could be linked to form a 12x1 switch for YC, three could be linked to switch YUV, etc. The **VS-1211** family is dependable, rugged, and each fits in one vertical space of a standard 19" rack. Video bandwidth of at least 250MHz ensures that they remain 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.<br>12, 10, 8, 6, 4 audio balanced stereo, + 4dBm, 10kΩ, on 2-part, snap fit terminal blocks.   |
| OUTPUTS:                | 1 external sync input (or composite video) 1Vpp/75Ω, on a BNC connector.<br>1 composite/single component video, 1Vpp/75Ω on a BNC connector.<br>1 audio balanced stereo up to +28Vpp/50Ω, (24dBm) on terminal blocks. |
| VIDEO BANDWIDTH (-3dB): | 250MHz. (typical).  |
| AUDIO BANDWIDTH (-3dB): | 55 kHz.   |
| DIFF. GAIN:             | 0.04%.  |
| DIFF. PHASE:            | 0.03 Deg.   |
| K-FACTOR:               | 0.05%.  |
| AUDIO S/N RATIO:        | 95 dB, Unweighted.  |
| NON LINEARITY:          | 0.1%.   |
| VIDEO S/N:              | 77.6 dB.  |
| AUDIO CROSSTALK:        | - 79dB.   |
| CONTROL:                | 12 illuminated front-panel touch switches, RS-232, RS- 485 and contact closure.   |
| AUDIO THD+NOISE:        | 0.02%.  |
| 2nd HARMONIC:           | 0.003% (1kHz).  |
| POWER SOURCE:           | 230 VAC, 50/60 Hz, (115VAC U.S.A.) 16 VA (VS-1211).   |
| DIMENSIONS:             | 19-inch (W), 7-inch (D) 1U (H) rack mountable.  |
| WEIGHT:                 | 3.1 kg (6.88 lbs.) approx.  |
| ACCESSORIES:            | Power cord, Windows® - basic control software, Null modem adapter.  |

#### TYPICAL APPLICATIONS

- Video production studios and professional presentation systems.
- Live broadcast, for switching between cameras in real-time.
- CCTV and security applications.

