



Video Audio Matrix Switchers

VS-802, VS-602xl/402xl

The Kramer VS-802, VS-602xl and VS-402xl are high performance, 8x2, 6x2 and 4x2 vertical interval matrix switchers for composite video and balanced stereo audio signals (the VS-802 has unbalanced stereo audio). They are true matrix switchers, allowing the user to route any input to any or all outputs simultaneously. Since the machines switch during the vertical interval, transitions are glitch-free when sources share a common reference sync. The new VS-602xl and VS-402xl have many updated features including audio breakaway, which switches audio independently of

video. In addition, the new TAKE button allows the user to place multiple switches in a queue, and then activate them with one touch of this button or a single serial command. New Kramer Windows™ based PC control software is included. There are three control methods: front-panel buttons, RS-232, and RS-485. The machines are dependable, rugged, and fit in one vertical space of a standard 19" rack (the VS-802 occupies 2 vertical spaces). Video bandwidth of over 300MHz (40 MHz for the VS-802) ensures that the machines remain transparent even in the most critical applications.



TECHNICAL SPECIFICATIONS

<b>INPUTS:</b>	8, 6, 4 composite video with loop, 1 x Sync - 1Vpp/75 on BNCs with sync select switch (on the VS-602xl / 402xl only). 6, (4) balanced audio stereo, +4dBm/33 k on detachable terminal blocks. (VS-802: 8 unbalanced audio stereo, 1V / 10 k on RCAs).
<b>OUTPUTS:</b>	2x2 composite video -1Vpp/75 on BNCs. 2 balanced audio stereo, +4dBm / 50 on detachable terminal blocks. (VS-802: 2x2 unbalanced audio stereo, 100 on RCAs).
<b>MAX. OUTPUT LEVEL:</b>	Video: 2Vpp/75, Audio: 24Vpp max.
<b>BANDWIDTH (-3dB):</b>	300MHz (video); 100kHz (audio); VS-802: 40 MHz (video), 20 kHz (audio).
<b>DIFF. GAIN:</b>	<0.03% (VS-802: 1.1%).
<b>DIFF. PHASE:</b>	<0.01 Deg (VS-802: 0.65 deg.).
<b>K-FACTOR:</b>	<0.05%.
<b>S/N RATIO:</b>	77dB (video, VS-802: 75 dB); 82dB unweighted, (1Vpp audio).
<b>CROSSTALK:</b>	-67dB @ 5MHz (video, VS-802: -65dB); -97dB @ 1kHz (audio).
<b>CONTROLS:</b>	17 (13) illuminated front-panel touch switches, RS-232, RS-485. VS-802: 16 illuminated touch switches, RS-232.
<b>COUPLING:</b>	DC (video, VS-802: clamped AC); AC (audio).
<b>AUDIO THD:</b>	<0.024%.
<b>AUDIO 2nd HARMONIC:</b>	<0.001%.
<b>POWER SOURCE:</b>	Universal, 100/120-200/240VAC, 47-63 Hz, 40W max. VS-802: 230 VAC, 50/60 Hz, 115 VAC (U.S.A) 10.3 VA.
<b>DIMENSIONS:</b>	19 inch (W), 7 inch (D), 1U (H, VS-802: 2U) rack mountable.
<b>WEIGHT:</b>	2.7kg (6 lbs.); (VS-802: 3.9 kg, 8.6 lbs) approx.
<b>ACCESSORIES:</b>	Power cord, PC control software (VS-802: + null modem adapter).

TYPICAL APPLICATIONS

- Video production studios.
- Live broadcast or presentation applications such as switching between cameras in real-time.
- CCTV, home theater, and rental/staging applications.