

## Video Audio Matrix Switchers

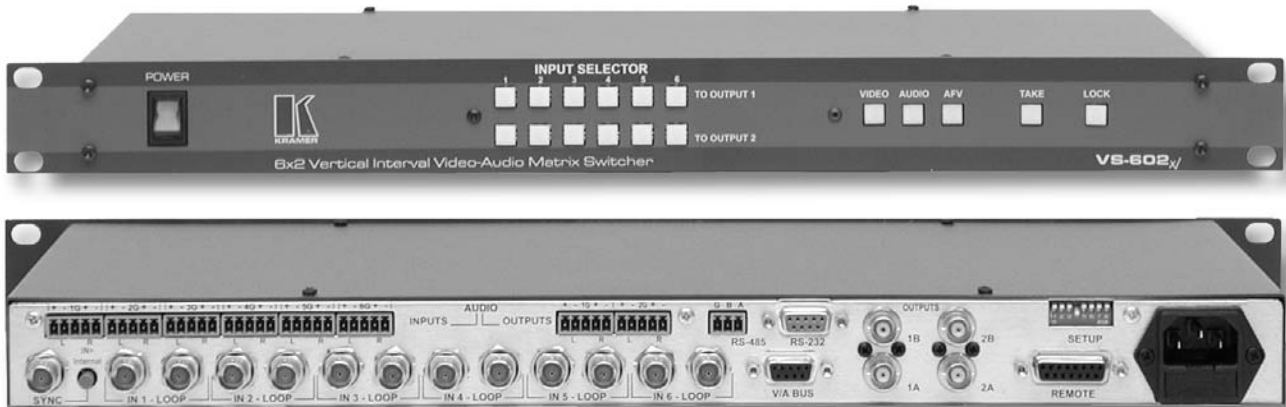
## VS-802xl, VS-602xl, 402xl

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VIDEO AND AUDIO SWITCHERS, MATRIX SWITCHERS AND CONTROLLERS

The Kramer VS-802xl, VS-602xl and VS-402xl are high performance, 8x2, 6x2 and 4x2 vertical interval matrix switchers for composite video and balanced stereo audio signals. 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-"02xl" series has 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-802xl occupies 2 vertical spaces). Video bandwidth of over 300MHz 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. 8, 6, 4 balanced audio stereo, +4dBm/33 k on detachable terminal blocks.
<b>OUTPUTS:</b>	2x2 composite video - 1Vpp/75 on BNCs. 2 balanced audio stereo, +4dBm/50 on detachable terminal blocks.
<b>MAX. OUTPUT LEVEL:</b>	Video: 2Vpp/75, Audio: 24Vpp max (VS-802xl: 20Vpp).
<b>BANDWIDTH (-3dB):</b>	300MHz (video), (VS-802xl: 386 MHz); 100kHz (audio).
<b>DIFF. GAIN:</b>	<0.03% (VS-802xl: 0.07%).
<b>DIFF. PHASE:</b>	<0.01 Deg (VS-802xl: <0.02 deg.).
<b>K-FACTOR:</b>	<0.05%.
<b>S/N RATIO:</b>	Video: 77dB, (VS-802xl: 75 dB); Audio: 82dB unweighted, (@1Vpp).
<b>CROSSTALK:</b>	Video: -67dB @ 5MHz; Audio: -97dB @ 1kHz.
<b>CONTROLS:</b>	21, 17, 13 illuminated front-panel touch switches, RS-232, RS-485.
<b>COUPLING:</b>	Video: DC; Audio: AC.
<b>AUDIO THD:</b>	<0.024%
<b>AUDIO 2nd HARMONIC:</b>	<0.002%.
<b>POWER SOURCE:</b>	Universal, 100/120-200/240VAC, 47-63 Hz, 40W max.
<b>DIMENSIONS:</b>	19 inch (W), 7 inch (D), 1U (H, VS-802xl: 2U) rack mountable.
<b>WEIGHT:</b>	2.7kg (6 lbs.); (VS-802xl: 3.9 kg, 8.6 lbs) approx.
<b>ACCESSORIES:</b>	Power cord, PC control software.

## TYPICAL APPLICATIONS

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