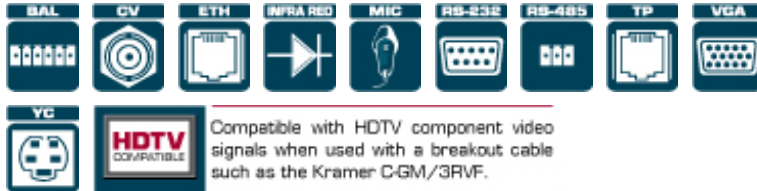


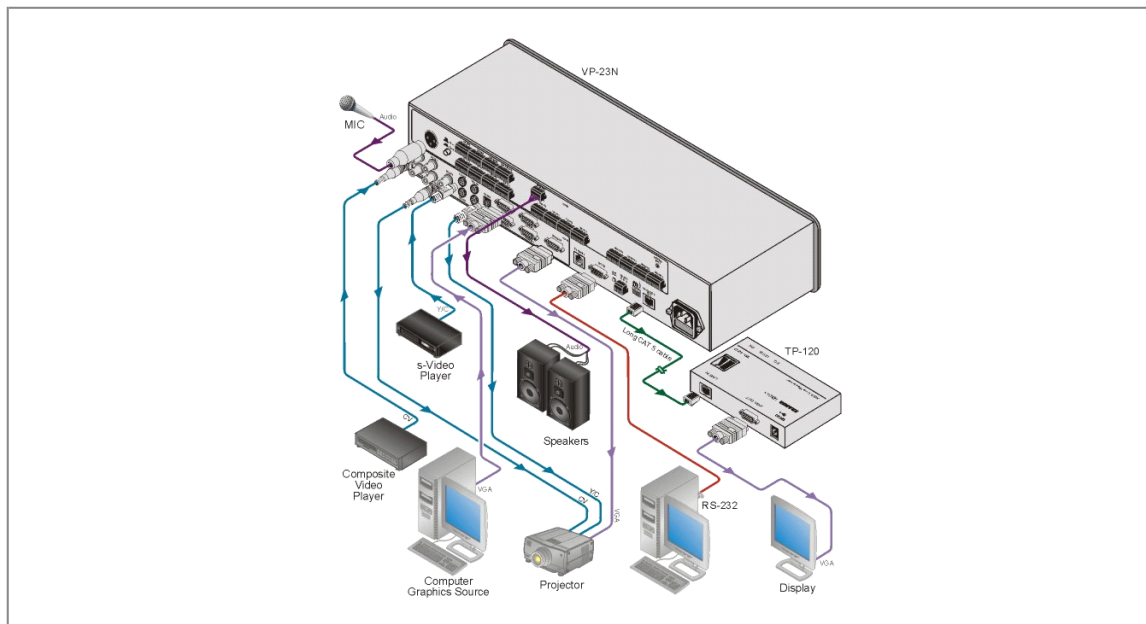


## VP-23N

### 12-Input Multi-Format Presentation Switcher with Balanced Stereo Audio



The **VP-23N** is a 4x1 composite video, a 4x1 s-Video (Y/C) and 4x1 computer graphics video switcher, each with balanced stereo audio. It is designed for a wide variety of presentation and multimedia applications.





## VP-23N

### FEATURES

- **High Bandwidth** - 350MHz (-3dB) computer graphics video, 385MHz s-Video (Y), 650MHz (-3dB) composite video, and CAT 5 up to UXGA.
- **Computer Graphics Outputs** - 15-pin HD and CAT 5 up to 100m (>300ft).
- **HDTV Compatible.**
- **Audio Level (Gain) Controls for Each Output.**
- **Microphone Input Level Control.**
- **Built in 5W RMS per Channel Audio Amplifier with Speaker Output Connectors.**
- **Master Audio Output - Input selectable.**
- **Talkover Button** - Microphone input signal mutes the line audio output when a microphone detects sound.
- **Flexible Control Options** - Front panel, RS-485, RS-232 (K-Router™ Windows®-based Kramer software is included), Ethernet, & IR remote (included).
- **Front Panel Lockout.**
- **Worldwide Power Supply - 100-240V AC.**
- **Standard 19 Rack Mount Size - 2U.**

### TECHNICAL SPECIFICATIONS

<b>INPUTS:</b>	4 VGA/XGA on 15-pin HD (F) connectors; 4 s-Video, 1Vpp (Y), 0.3Vpp (C)/75Ω on 4-pin connectors; 4 composite video 1Vpp/75Ω on BNC connectors; Each input is accompanied by the appropriate balanced stereo audio channels: +4dBu/50kΩ on detachable terminal block connectors; Mic: 3mV/10kΩ condenser/dynamic on an XLR connector.
<b>OUTPUTS:</b>	1 VGA/XGA on a 15-pin HD (F) connector; 1 s-Video 1Vpp (Y), 0.3Vpp/75Ω (C) on a 4-pin connector; 1 composite video 1Vpp/75Ω on a BNC connector; 1 UTP CAT 5 connector (Line OUT). Each output channel is accompanied by the appropriate balanced stereo audio channel: +4dBu/150Ω on detachable terminal blocks; 1 master stereo audio +4dBu/150Ω on a detachable 4-pin terminal block 1 stereo speaker output 2x5W continuous into 4Ω.
<b>MAX. OUTPUT LEVEL:</b>	Video: Y/C: 1.8Vpp, CV: 1.8Vpp, XGA: 1.7Vpp; Audio: Group: 20dBu Master: 15dBu.
<b>BANDWIDTH (-3dB):</b>	Video: Y/C: 385MHz, CV: 650MHz, XGA: 350MHz, CAT 5 up to UXGA; Audio: Group: 46kHz, Speakers: 40kHz, Master: 33kHz.
<b>DIFF. GAIN:</b>	Y/C: 0.03%; CV: 0.03%; XGA: 0.15%.
<b>DIFF. PHASE:</b>	Y/C: 0.03Deg. CV: 0.03Deg. XGA: 0.09Deg.
<b>K-FACTOR:</b>	<0.1%
<b>S/N RATIO:</b>	Video: Y/C: 81dB, CV: 75dB, XGA: 75dB, (unweighted). Audio: Group: 74dB, Speakers: 53dB (max pwr weighted), Master out: 72dB.
<b>CROSSTALK (all hostile):</b>	Video: 49dB @5MHz, Audio: Group: <-76dB, Master: <-69dB @1kHz.
<b>CONTROLS:</b>	Channel selector for video and audio, for Y/C, CV and XGA;