

The COMPASS

Presentation Switcher

7 x 1 Seamless Graphic Switcher
With Audio

FSR

Video Products Group

COMPASS CO-2001



Discover The

COMPASS

The Most Complete Boardroom Switcher Available!

FSR introduces The COMPASS Presentation Switcher, a 7 x 1 seamless graphic switcher with stereo audio, the COMPASS accepts any combination of Composite, Component, S-Video or Computer RGB signals up to 1600 x 1200 (UXGA) resolution on any input. The built-in scaler processes the input sources and scales them to the native resolution of the display devices, and can be output as any graphic resolution up to 1365 x 1024. Built-in effects provide truly seamless dissolve, cut and wipe transitions from any source to any of the other sources.

FSR's scalars time and again have proven to out perform the competition, especially when dealing with fine detail and fast motion. The rock solid video signal output matches the native resolution of any display device. The user can also store a logo bitmap within The COMPASS as a source to be selected when none of the other video sources are being used.

The COMPASS is the most versatile and capable boardroom switcher available in a smaller, more installer friendly, package. Designed to be an economical switching solution that is easily installed and operated the COMPASS is a single rack unit high device with front panel controls of all functions & transitions. All of the video inputs are via HD-15 D-Sub Connectors and all of the audio inputs & outputs are via captive-screw (phoenix) connectors.

The COMPASS is RS-232 controllable via FSR's Accessory Remote Control, Crestron, or AMX control systems. Multiple COMPASS's can be controlled via FSR's new controller for multi-screen presentations and installations. The COMPASS is just the latest addition to FSR's expanding family of audio & video switchers which include The POCKET NAVIGATORS, The AVS 8x1 & 8x2 A/V SWITCHERS, and The OMNI NAVIGATOR Seamless Graphic Switcher.

APPLICATIONS:

- Boardrooms
- Educational
- Training Rooms
- Rentals
- Staging Events
- Conference Centers
- Videoconferencing

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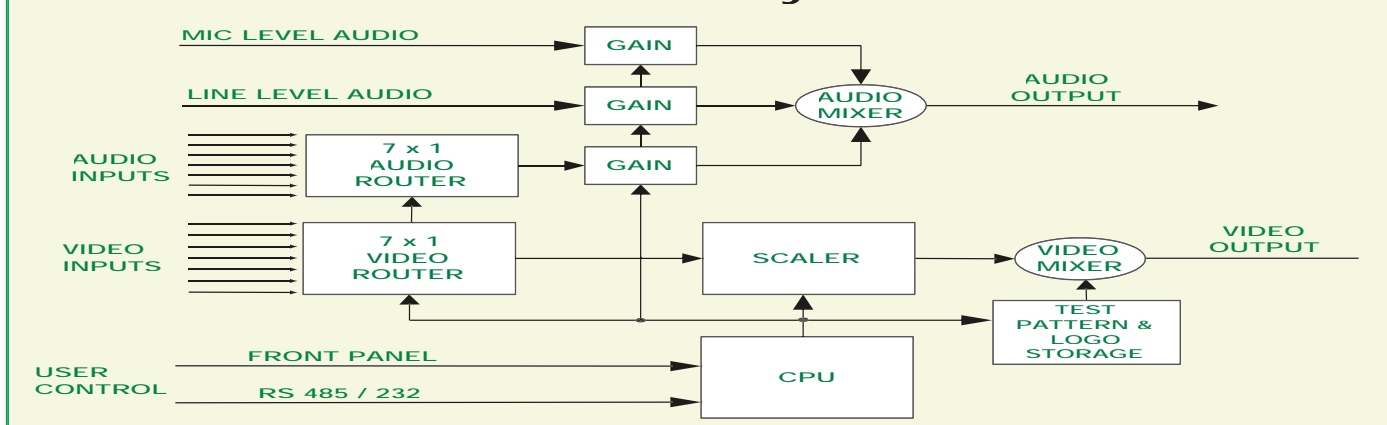
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The COMPASS also accepts balanced & unbalanced stereo audio from each of the video sources and has extra audio inputs for both MIC-Level and LINE-Level inputs. The audio for each of the video sources is processed through a built-in digital delay that switches when that source is selected and can also be mixed with the MIC & LINE Level inputs. The digital delay compensates for the inherent delay caused by the scaling circuitry allowing the video and audio signals to stay in sync.

USER CONTROL FUNCTIONS:

- Set-up controls for each video & audio input and output
 - Intuitive front panel user controls of all functions & transitions
 - Control available transitions: cut, dissolve and wipe & duration of dissolve & wipe
 - Preprogrammed test patterns for display device calibration
 - Full control over audio source selection, level control (Master, LINE, MIC, and Video Source), and muting control of all sources
 - Logo Button: stores customer's logo for use when other video sources aren't selected.
 - RS-232 remote controllable
 - Accessory remote control available
 - Multiple COMPASS's can be controlled via FSR's new controller
- 7 x 1 Graphic Switcher With Stereo Audio
 - 7 Universal Video Inputs
 - High-performance built-in scaler for superior image quality which automatically locks to the selected source
 - Available Transitions: Cut, Dissolve and Wipe
 - Adjustable Transition Duration for Wipe & Fade effects
 - Logo Button: Captures & stores customer's logo as an eighth video source.
 - RS-232 remote controllable
 - Motion adaptive de-interlacing
 - All video input levels are independently programmable
 - Output resolution is user selectable
 - 2 Main Video Outputs: Fully buffered
 - Preprogrammed Test Patterns for projector calibration
 - Full control over audio source selection and level control
 - Stereo Audio Inputs (balanced or un-balanced) for each Video Input
 - 2 Auxiliary Line Level Inputs (balanced or un-balanced) for External Mixer, CD Players, etc.
 - Auxiliary Mic Level Input with Phantom Power
 - Accepts Consumer or Professional signal levels

The COMPASS System Flow



TECHNICAL SPECIFICATIONS

VIDEO

<i>Gain:</i>	<i>Unity</i>
<i>Bandwidth:</i>	<i>350 MHz</i>
<i>Crosstalk:</i>	<i>- 53 dB @ 100 MHz</i>

VIDEO INPUT

<i>Number of Inputs:</i>	<i>7</i>
<i>Signal types:</i>	<i>Composite (NTSC / PAL), S-Video, Component (RGB or YUV), RGB, RGBS, RGBHV, RGsB, Sync on Green, Sync on Video, BETA 60, BETA 50, MII, EBU, HDTV: 480p / 720p. Input levels are independently programmable for RGB & YUV sources. Programmable luminance & chrominance levels are provided for S-Video, and Hue / Saturation Controls are provided for NTSC inputs.</i>
<i>Input Resolutions:</i>	<i>640x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x1024, 1365x768, 1365x1024, 1600x1200</i>
<i>Connectors:</i>	<i>Female HD-15 D-sub</i>
<i>Video level:</i>	<i>0.7v P-P Nominal</i>
<i>Impedance :</i>	<i>75 Ohm</i>
<i>Horizontal frequency :</i>	<i>Automatic Detection: 15kHz – 100kHz</i>
<i>Vertical frequency:</i>	<i>Automatic Detection: 50Hz – 100Hz</i>
<i>De-Interlacer:</i>	<i>Motion Adaptive</i>
<i>Digital sampling:</i>	<i>24 Bit, 8 bit per color @ 140 MHz</i>

VIDEO OUTPUT

<i>Number of outputs:</i>	<i>2</i>
<i>Signal types:</i>	<i>RGBS , RGBHV</i>
<i>Connectors:</i>	<i>Female HD-15 D-Sub</i>
<i>Video level:</i>	<i>0.7v P-P Nominal</i>
<i>Impedance:</i>	<i>75 Ohm</i>
<i>Scaled resolutions:</i>	<i>RGB video in user-selectable format: 640x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x1024, 1365x768, 1365x1024</i>
<i>Switching type:</i>	<i>Seamless transitions, cuts, wipes, and fades, with programmable durations</i>

SYNC

<i>Input type :</i>	<i>Automatic Sync Format Detection</i>
<i>Output type:</i>	<i>Composite (RGBS) or H & V (RGBHV) with programmable sync polarity</i>
<i>Standards :</i>	<i>NTSC & PAL</i>
<i>Input level :</i>	<i>0.3 – 5.0v P-P</i>
<i>Output level :</i>	<i>TTL Sync</i>

(continued on next page)

TECHNICAL SPECIFICATIONS

AUDIO

<i>Program Audio:</i>	<i>Digital Sync Delay</i>
<i>Audio Sampling:</i>	<i>44kHz / 18 bit</i>
<i>Frequency response:</i>	<i>20Hz – 20kHz +/- 0.5 dB</i>
<i>THD & Noise:</i>	<i>- 75 dB</i>
<i>Adjacent input crosstalk:</i>	<i>- 90 dB @ 1 kHz</i>

AUDIO INPUT

<i>Number of Inputs:</i>	<i>7 Stereo Program, 2 Mono Line Level, 1 MIC Level Inputs</i>
<i>Signal types:</i>	<i>Balanced Audio</i>
<i>Connectors:</i>	<i>Plugable Captive Screw (Phoenix) Terminal Connectors</i>
<i>Impedance :</i>	<i>10k</i>
<i>Maximum level:</i>	<i>+ 17 dBu</i>
<i>Input gain adjustment:</i>	<i>+ / - 10 dB trim on program inputs</i>
<i>MIC Input:</i>	<i>3 selectable sensitivities, selectable phantom power, automatic gating with compression & limiting</i>
<i>MIC type:</i>	<i>Low Z MIC, dynamic or condenser</i>

AUDIO OUTPUT

<i>Number of Outputs:</i>	<i>1 Stereo Balanced Output</i>
<i>Connectors:</i>	<i>Plugable Captive Screw (Phoenix) Terminal Connectors</i>
<i>Gain Controls:</i>	<i>+ / - 10 dB trim on program inputs</i>
<i>Master Volume Range:</i>	<i>30 dB</i>
<i>Sub Master Controls:</i>	<i>Program: 30 dB, Line: 70 dB, and MIC: 70 dB</i>
<i>Program/Line Input Levels:</i>	<i>Selectable Pro / Consumer Mode</i>
<i>Impedance :</i>	<i>600 Ohm</i>
<i>Attenuation:</i>	<i>- 80 to + 20 dB</i>
<i>Maximum level:</i>	<i>+ 22 dBu Ref: 0.775 vrms = 0 dB</i>

GENERAL

<i>Power:</i>	<i>85 – 264 VAC, 47 – 63 Hz, 175 Watts</i>
<i>Temperature / humidity:</i>	<i>0 – 40 Degrees C, 0 – 97% Non-condensing</i>
<i>Rack mount:</i>	<i>1 RU / Rack ears included</i>
<i>Enclosure type :</i>	<i>Metal</i>
<i>Enclosure dimensions :</i>	<i>1.5" H x 17" W x 13" D (19" wide with rack ears)</i>
<i>Weight:</i>	<i>9 lbs. (13 lbs. shipping)</i>
<i>Approvals:</i>	<i>UL, CUL, CE, FCC Class A</i>
<i>Warranty :</i>	<i>All video products are designed and tested to the highest quality standards and are backed by a full three-year parts and labor warranty .</i>

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