



# COMPASS 3.0

## Presentation Switcher

# FSR

## Video Products Group

COMPASS 3.0



### 4K Ultra-Fast, Multi-Format Digital & Analog Seamless Scaling Switcher

#### DESCRIPTION

The Compass 3.0 Presentation Switcher is designed for the staging and rental market, but easily crosses boundaries into fixed applications such as boardrooms, amphitheaters, and multi-purpose training rooms.

The Compass 3.0 switcher is an ultra-fast, multi-format digital and analog seamless scaling presentation switcher with fully integrated proprietary Ultra 4K image processing technology.

The standard video inputs are: two HDMI 4K, one HDMI, one DisplayPort 4K, one VGA, one Composite Video (CVBS), one DVI-U (DVI / HDMI & VGA / RGBS / YPbPr), and there are two 3G-SDI. The standard video outputs are one 4k HDMI, one DVI/HDMI, and an optional 3G-SDI output. This unit with 3G-SDI offers full Gen-lock and Source Lock for in-camera and broadcast applications.

This feature packed unit offers: audio de-embedded from HDMI, DisplayPort and 3G-SDI inputs. Audio is re-embedded onto HDMI outputs, and multiple outputs for local monitoring of a live output feed. It also offers stereo analog audio inputs and outputs with audio-follow-video capability. There are two microphone inputs with phantom power available and an internal mixer for talk-over. The internal power amplifier provides 2 x 15W RMS to directly drive loudspeakers in meeting rooms and smaller conference rooms, plus line level balanced stereo outputs to drive an external amplifier or powered loudspeakers.

#### FEATURES

- Perfect scaling with low-latency 4K proprietary scaling algorithms
- Typical 0.25 seconds input channel switching technology
- Front panel jog-wheel and LCD display for fast easy set-up in the field
- Up to 11 Video Inputs: 2 x HDMI 4K, 1 x HDMI HD, 1 x DisplayPort 4K, 2 x 3G-SDI, 1 x VGA, 1 x CVBS, 1 x DVI-U (DVI/HDMI & VGA/RGBS/YPbPr)
- 4 Video Outputs: 1 x HDMI 4K, 1 x DVI/HDMI, 1 x 3G-SDI
- 8x Line Level Stereo Audio Inputs
- 2x Microphone Inputs with Phantom Power and Audio Mixer
- Stereo Audio Power Amplifier with 2 x 15W RMS Loudspeaker Outputs\*
- Stereo Balanced Line Level Audio Outputs
- Brightness, Contrast, Saturation controls for all source types
- RGB calibration controls (not 4:2:0 in to 4:2:0 out)
- Flexible Aspect Ratio Conversion
- Full Genlock and Source Lock for in-camera and broadcast
- Audio de-embed from HDMI, DisplayPort, 3G-SDI inputs, re-embed to HDMI, and 3G-SDI outputs

#### ORDERING INFORMATION

Model	Inputs	Outputs
CO-PS101A*	<b>10 Video Inputs:</b> 2xHDMI 4K, 1xHDMI HD, 1xDisplayPort 4K, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & VGA/RGBS/YPbPr), 2x3G-SDI 1x Genlock reference sync input	<b>3 Video Outputs:</b> 1xHDMI 4K, 1xDVI/HDMI, 1x3G-SDI

\* = Audio Model



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# SPECIFICATIONS

## Inputs

2x HDMI 4K, 1x HDMI HD, 1x DisplayPort 4K,  
2x 3G-SDI  
1x DVI-U supporting VESA modes, SD, HD, can be configured  
as fourth HDMI input. DVI-U input also simultaneously supports  
VGA/RGBS/YPbPr legacy analog formats with suitable cable.  
1x VGA Analog, 1x Composite PAL/NTSC/SECAM  
1x Genlock reference sync input supports bi/tri-level or black  
burst 50/59.94/60Hz formats  
HDCP supported on all HDMI/DVI/DisplayPort I/O  
7x Line Level Stereo Audio via 3.5mm Jack  
1x Line Level Stereo Audio via 2xRCA  
2x Microphone Input with 48V Phantom Power  
via 6.35mm Jack

## Supported digital input and output formats

4K/UHD (HDMI 4K / DisplayPort)  
3840 x 2160p (23.97Hz/24Hz/25Hz/29.94Hz/30Hz/50Hz  
/59.94Hz /60Hz); 4096 x 2160p (23.97Hz/24Hz)  
UHD/4K 50Hz / 59.94 Hz / 60 Hz modes supported  
in 4:2:0 format.  
HD 1280 x 720p, 1920 x 1080i, 1920 x 1080psf, 1920 x 1080p  
(23.97Hz/24Hz/25Hz/29.94Hz/30Hz/50Hz/59.94Hz/60Hz);  
2048 x 1080p (23.97Hz/24Hz/25Hz /29.94Hz /30Hz/  
50Hz/59.94Hz /60Hz)  
ED 480p, 576p (not via SDI), SD 625i (576i), 525i (480i)  
Common VESA graphics formats from VGA to 4K, (Modes  
higher than WUXGA on 4K capable input channels only)

## Outputs

1x HDMI 4K via HDMI connector  
1x DVI/HDMI via DVI connector  
1x 3G-SDI  
1x S/PDIF digital audio via RCA  
NB: 3G-SDI output is disabled with HDCP-encrypted input and  
also when incompatible output modes are selected. All outputs  
are otherwise available simultaneously, with the same image  
shown on each.  
1x Loudspeaker Connector, 2x15W RMS  
1x Line Level Balanced Stereo

## Supported Switching & Sync Modes

Ultra fast input Switching in Genlock and Free-Run modes  
Also supports Source Lock when UltraFast not required

## User Controls

Front panel jog-wheel and LCD menu display for fast set-up.  
Keypad for direct input selection and integral indicator LEDs.  
Remote control via RS232, TCP/IP API and Web Server.  
Gigabit Ethernet for webserver and remote control API

## Power Requirements

100-264VAC, 65W typical

## Warranty

3-years return to base warranty covers parts and labor.



MET C / US Agency Listed  
(UL60950-1 / CSA C22.2  
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# COMPASS 3.0 FEATURES

Compass 3.0 model	CO-PS101A
Front LCD menu or OSD control	LCD
HDMI 4K Inputs	▪ (2)
HDMI HD Input	▪
DVI/HDMI HD Input	▪
DisplayPort 4K Input	▪
Component Input	DVI-U
Composite Input(s)	▪
VGA Analog Input	▪
3G-SDI Input(s)	▪ (2)
DVI / HDMI HD Output	▪
HDMI 4K Output	▪
3G-SDI Output	▪
3G-SDI Audio embed/de-embed & SPDIF	▪
Ultra 4K Low-Latency Processing	▪
Ultra-Fast High Speed Input Switching	▪
TCP/IP Webserver & API Control	▪
Genlock – H&V	▪
Pan, Zoom, Tilt	▪



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