COMPASS 3.0
Presentation Switcher Family

FSR
Video Products Group

C0-PS101 shown

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

DESCRIPTION

The Compass 3.0 Presentation Switcher Family 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 Family switchers are ultra-fast, multi-format digital and analog seamless scaling presentation switchers with fully integrated proprietary Ultra 4K image processing technology.

Models are available in video only or video/ audio switching versions. 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 optionally two 3G-SDI and/or one HDBaseT input as well. The standard video outputs are one 4k HDMI, one DVI/HDMI, and an optional 3G-SDI and/or HDBaseT 4k output. Units ordered with 3G-SDI offer full Gen-lock and Source Lock for in-camera and broadcast applications.

These feature packed units offer: 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 units with optional stereo analog audio inputs and outputs with audio-follow-video capability. There are two microphone inputs with phantom power available and 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,1 x HDBaseT 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 HDBaseT 4K**, 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, HDBaseT** and 3G-SDI** inputs, re-embed to HDMI, HDBaseT and 3G-SDI outputs**

* See spec chart for features related to specific models
** Optional depending on model.

ORDERING INFORMATION

Model	Inputs	Outputs
CO-PS81 CO-PS81A*	**8 Video Inputs:** 2xHDMI 4K, 1xHDMI HD, 1xDisplayPort 4K, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & &VGA/RGBS/YPbPr)	**2 Video Outputs:** 1xHDMI 4K, 1xDVI/HDMI
CO-PS91 CO-PS91A*	**9 Video Inputs:** 2xHDMI 4K, 1xHDMI HD, 1xDisplayPort 4K, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & VGA/RGBS/YPbPr), HDBaseT 4K	**3 Video Outputs:** 1xHDMI 4K,1xDVI/HDMI, HDBaseT 4K
CO-PS101 CO-PS101A*	**10 Video Inputs:** 2xHDMI 4K, 1xHDMI HD,1xDisplayPort 4K, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & VGA/RGBS/YPbPr), 2x3G-SDI 1x Genlock reference sync input	**3 Video Outputs:** 1xHDMI 4K, 1xDVI/HDMI, 1x3G-SDI
CO-PS111 CO-PS111A*	**11 Video Inputs:** 2xHDMI 4K, 1xHDMI HD, 1xDisplayPort 4K, 1xVGA, 1xCVBS, 1xDVI-U (DVI/HDMI & VGA/RGBS/YPbPr), 2x3G-SDI, HDBaseT 4K 1x Genlock reference sync input	**4 Video Outputs:** 1xHDMI 4K, 1xDVI/HDMI, 1x3G-SDI, HDBaseT 4K

* = Audio Models

SPECIFICATIONS

Inputs

2x HDMI 4K, 1x HDMI HD, 1xDisplayPort 4K,
1x HDBaseT 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/HDBaseT/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 / HDBaseT only)
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)

**** Optional depending on model**

Outputs

1x HDMI 4K via HDMI connector
1x DVI/HDMI via DVI connector
1x HDBaseT 4K**
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
No.60950-1 / E113349)

COMPASS 3.0 FEATURE COMPARISON

Compass 3.0 model	CO-PS81	CO-PS91	CO-PS101	CO-PS111
Front LCD menu or OSD control	LCD	LCD	LCD	LCD
HDMI 4K Inputs	▪(2)	▪(2)	▪(2)	▪(2)
HDMI HD Input	▪	▪	▪	▪
DVI/HDMI HD Input	▪	▪	▪	▪
HDBaseT 4K Input		▪		▪
DisplayPort 4K Input	▪	▪	▪	▪
Component Input	DVI-U	DVI-U	DVI-U	DVI-U
Composite Input(s)	▪	▪	▪	▪
VGA Analog Input	▪	▪	▪	▪
3G-SDI Input(s)			▪(2)	▪(2)
DVI / HDMI HD Output	▪	▪	▪	▪
HDMI 4K Output	▪	▪	▪	▪
HDBaseT 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	▪	▪	▪	▪
Analog Audio In, Out and Power Amp This is fitted to models with "A" suffix only	CO-PS81A	CO-PS91A	CO-PS101A	CO-PS111A

GREEN

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