

# Pacific C-A

All-in-one Converter with Scaler



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## ALL-IN-ONE CONVERTER WITH SCALER

— CONVERTS ANY SIGNAL SOURCE FROM  
HDMI / DVI / VGA / YPbPr / CVBS / SDI (3G / HD / SD) TO  
HDMI / DVI / VGA / YPbPr / SDI (3G / HD / SD)



# Pacific C-A Feature Highlights

**All-in-one**, multi-format signal converter with scaler, up/down converting extensive range of graphics and video signals to designated signal format.

**Automatic sensing** of HDMI/DVI/VGA/YPbPr/CVBS/SDI input signals up to 1920x1200 resolution; audio supports HDMI/SDI embedded and analog line-in audio.

**Flexible output configuration**; HDMI/DVI/VGA/YPbPr/SDI output format of various timings fully compliant to VESA/SMPTE standard (output resolutions up to 1920x1200/60Hz and 2048x1080/24Hz respectively).

**Multiview-capable**, simultaneous monitoring of two signals on one display; supports flexible scaling and layout adjustment, as well as PiP capability.

**Custom monitoring** via easily configurable crop and pan control, aspect ratio conversion, as well as keying for downstream broadcast production, conference, and presentation.

**Independent audio monitoring** via 8-channel HDMI/SDI embedded or analog stereo audio output with delay adjustment; supports flexible audio embed/de-embed processing.

**Optional genlock** function with timing offsets to synchronize one or multiple Pacific C-AG (Pacific C-A series with genlock support) to an external sync reference.

**Compact and stand-alone** enclosure includes flexible control options via LCD panel and Windows-based software utilities over Ethernet.

**HDCP compliance** allows protected, high definition digital content to be displayed and freely scaled; signal conversion in compliance to HDCP license.

# Pacific C-AG Overview



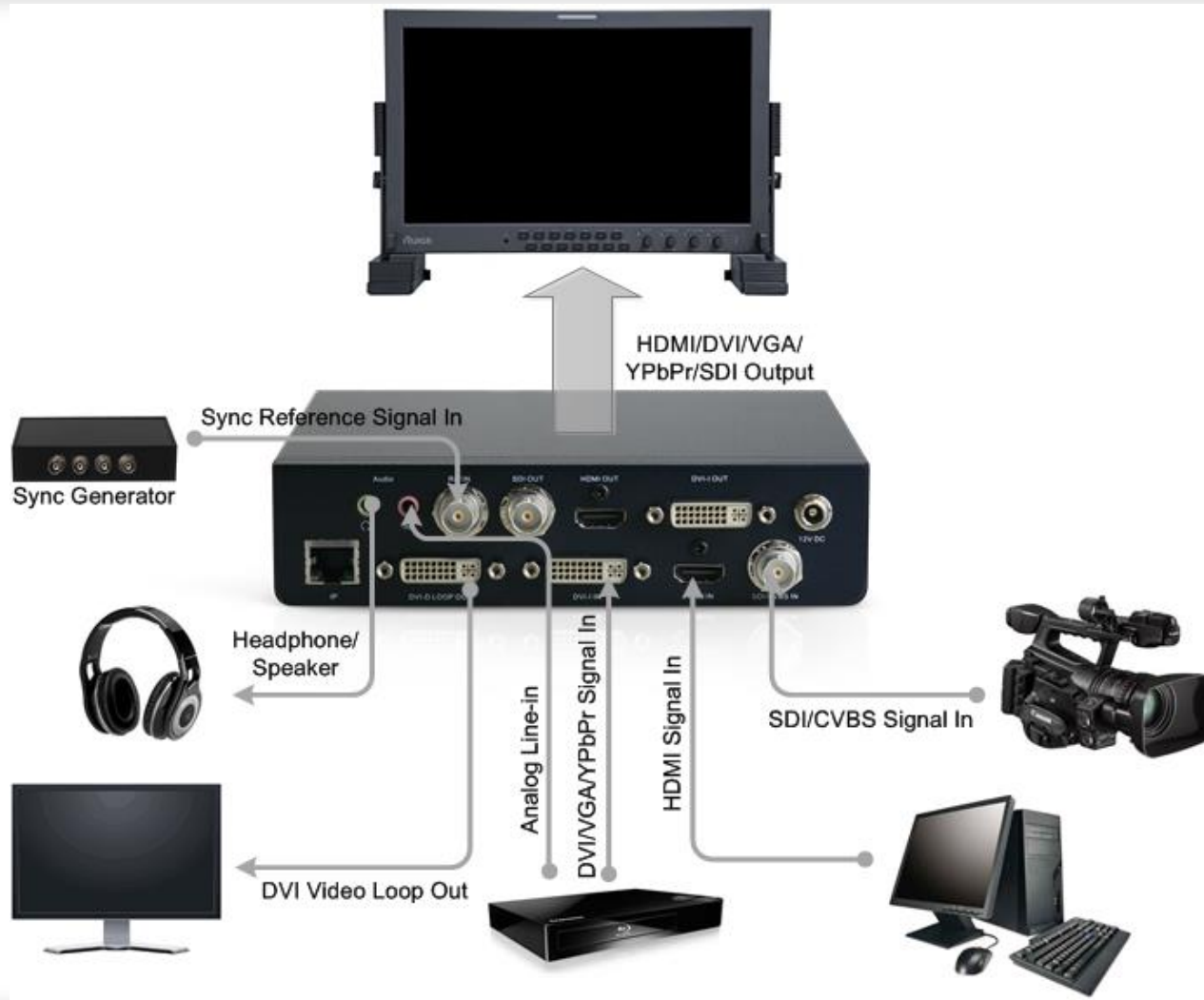
- 1 LCD panel displays video and audio output status, configuration and control settings
- 2 Control buttons to navigate and select menu items for system configuration
  - Choice of control and configuration of Pacific C-A via the LCD panel setting; or via the Windows-based software utility Phoenix-G over Ethernet interface
- 3 Built-in low noise system fan

# Pacific C-AG Overview



- 1 Ethernet port for communication with Windows-based utilities (Phoenix-G, ScreenCrop, and PacificConfig)
- 2 DVI-I connector for DVI-D loop output for local monitoring
- 3 DVI-I connector for DVI/VGA/YPbPr input source
- 4 HDMI input source with embedded audio
- 5 BNC connector for SDI (3G/HD/SD) with embedded audio / CVBS (NTSC/PAL) input source
- 6 Audio jacks available for headphone, speaker, and analog audio line-in
- 7 Multi-format sync reference input for genlock signal (frame synchronization for Pacific C-AG)
- 8 BNC connector for SDI (3G/HD/SD) output with embedded audio
- 9 HDMI output with embedded audio
- 10 DVI-I connector for DVI/VGA/YPbPr output
- 11 Power (12V DC)

# Pacific C-AG System Diagram



# Empowered Multiviewing

The Pacific C-A integrates multiviewing capability into video conversion, allowing two input sources with distinct video formats to be converted and simultaneously monitored on one display. Both sources can be freely scaled and positioned, as well as overlaid to achieve PiP layout. Controls can be done by front LCD panel and the software utility Phoenix-G's user interface.



# Downstream Keying

Designed to be easily implemented for post-production and broadcast applications, the Pacific C-A allows users to crop, scale and locate converted contents to be exactly positioned in the output. When outputting as SDI signal, Pacific C-A enables user to set a mono background color as the backdrop commonly used for downstream keyers in broadcast applications. This allows graphics and contents created from computers to be easily converted and superimposed on top of existing video signal.





# Area-of-Interest Crop and Pan

The Pacific C-A features area-of-interest cropping for contents of conversion. The ScreenCrop Utility can automatically encompass an area-of-interest over a window or object within an application or on a web page (such as a YouTube video window) where the mouse cursor locates. This Windows utility program allows easy and quick selection of target contents to be converted (contents within the cropped area are automatically scaled to full-screen). Moreover, user can pan the cropped image to dynamically change the area-of-interest.



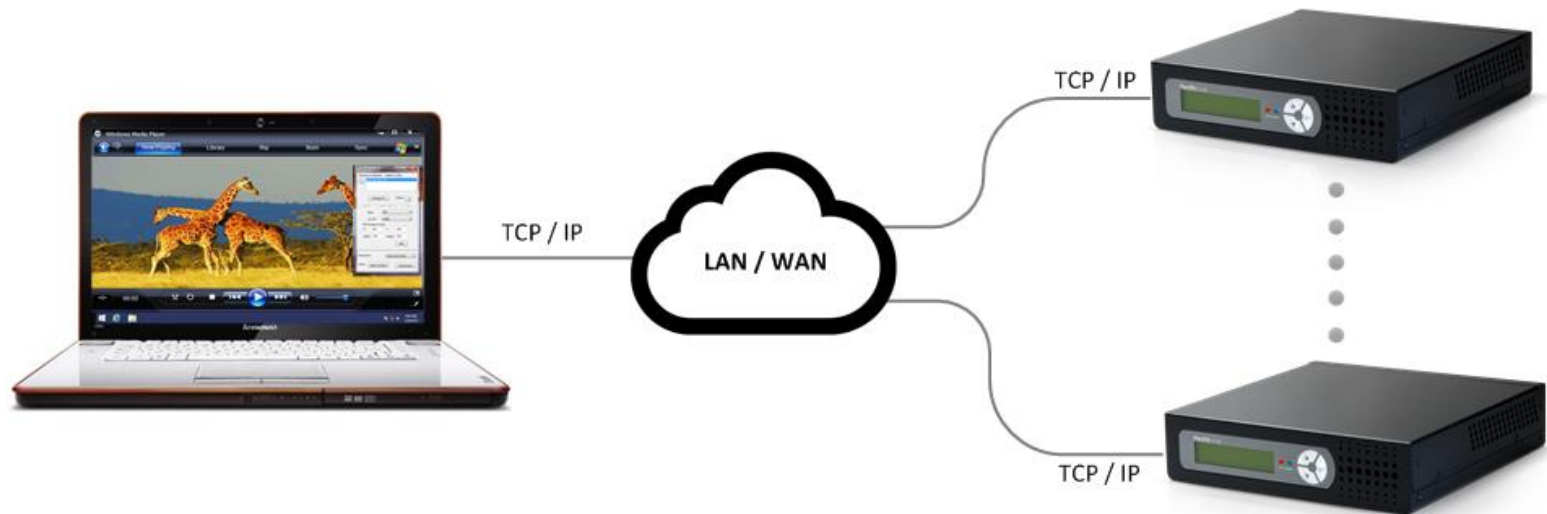
# Area-of-Interest Crop and Pan - Two Instances Switch

The ScreenCrop Utility supports two areas of interest in cropping from a MS-Windows computer. This allows selection of two independent contents, such as PowerPoint presentations, media player video streams, and YouTube video windows, to be converted and presented interchangeably at any desired moment.



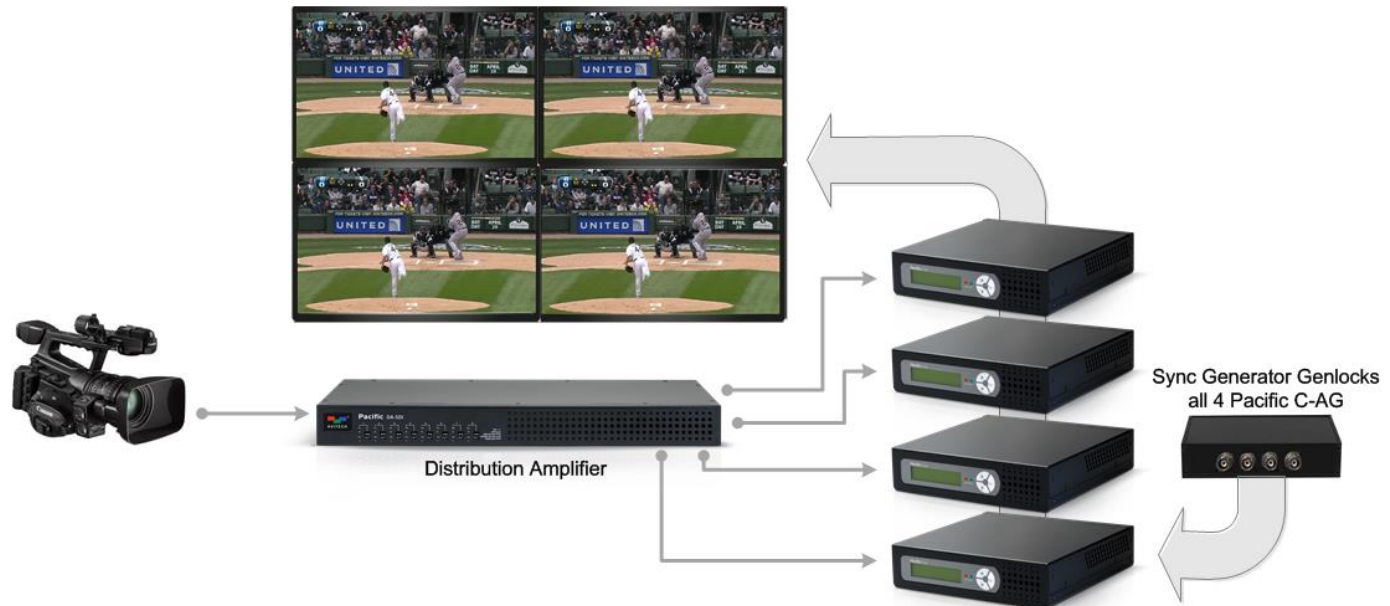
# On-line Configuration for Multiple Converters

The Windows-based PacificConfig Utility provides an intuitive user interface for easy input selections (both main and PiP channel) and quick configuration of output resolutions and timing for Pacific C-A(G). Capable of controlling multiple Pacific converters under the same network, this utility helps users to control and manage more than 150 converters from one location.



# Genlocking Multiple Converters (Optional)

Integrated frame synchronizer genlocks video sources of multiple Pacific C-AG converters to a reference sync. With delay-line adjustment, Pacific C-AG ensures many downstream displays to be fully synchronized.





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