



Text Graphic Over Video Overlay Processor

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This video text message generator is designed to insert the user-defined text and digital graphics onto any standard video signal. Very ideal for digital signage, multimedia project, education, advertising, media center, video studios, wedding video graphers and all post production related tasks.

This video overlay system works perfectly for many media centers to create informational video for corporate, digital signage, home or commercial applications. Also very popular application for churches and bible study groups who need to add computer-generated text such as song lyrics, titles, menu, descriptions to the live video content.

Its design offers high quality video output and a cost effective solution for subtitling, captioning, advertising, logo insertions and adding computer data to video in real time. Also a perfect tool for DIY Karaoke content by creating special visual effects like icons, pictures, graphics, titles, subtitles, lyrics, deception, time clock, date, etc to the music video for private video production.

This PC-based chroma key system can work with all analog video cameras and produce real time output for further integration with video mixer or distribution amp for instant broadcasting, post production, video capturing and online streaming.

Even regular users can make their own amazing multimedia content at home and see special composited video overlay effect results in real time just like what the professionals are doing. Give your home movies and business presentation a boost by adding text and graphic to your home or corporate video now.

Multiple Inputs And Outputs With VGA Pass-Through

This system is featured with a VGA input for key source, a composite video input and a s-video input for background sources to be connected together.

There are total of 2 simultaneous video outputs (composite RCA and S-Video type) which can be further broadcast to 2 end receiving devices such as video monitors, video mixer deck and video recorders for monitoring and recording purposes.

This unit also supports VGA loop-through so users can have the PC video screen displayed simultaneously on both VGA monitor and TV set at the same time for ease of control what you do with your application for the audience.

Multiple Video Processing Modes

This video overlay system offers a number of features and mixer modes, which can be used in conjunction with the included software. **The selectable 4 operation modes supported are:**

- **VGA mode** to preview what the content alone generated from the computer on a TV or video monitor display before overlay or mixing process.
- **Video mode** to see the original external video input alone on TV before overlay or mixing process.
- **Mixer mode** to display the mixing result after the process that the computer-generated content will be semi transparent and superimposed onto another video source such as video camera or DVD player.
- **Overlay mode** with 4 selectable chroma/Luma color keying **in blue, green, red and black color**. When using the selected color keying for background at overlay mode, the blue/green/red/black color background on the computer screen will be keyed away and reveal the image behind it.

Note

Differences between Mixer and Overlay modes. Mixer mode shows both the computer text messages and input video together while the computer texts and images are presented semi transparent through the top of the video signal. Overlay mode removes all the mono color background from the caption editor software on the computer screen and displays the remains on top of the video image in solid color (non transparent). So if you have text or images over a blue/green/red/black background, the only portion to be shown on top of the video will be the text or image part. Visually the text message or computer graphics are overlaid onto the video.





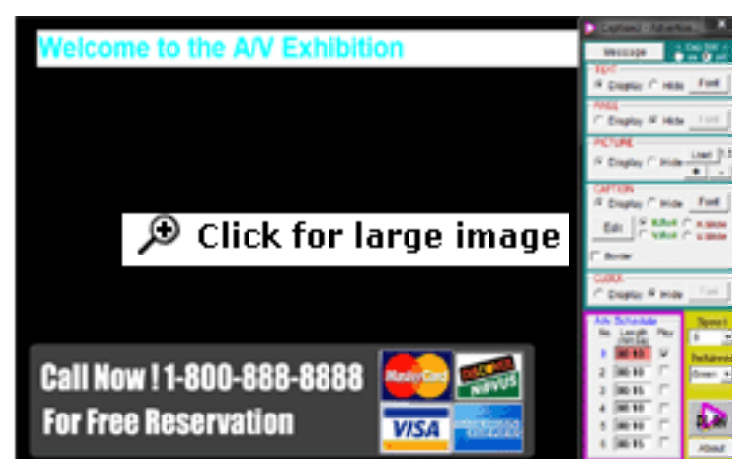
Video Caption Subtitle Graphic Overlay Processor With Real-Time Clock

This video processor overlays color text and graphics generated by PC onto an incoming video source or display colored text on a self-generated colored background screen (e.g. blue screen).

Text arrangement such as text color, font style, cursor positioning, and the background color can be all controlled through the caption software supplied in the package. Users will need to install the caption software to a Windows-based PC first for preparing the content to be overlaid. No limits on the entry and location of text/characters.

Graphic images (such a logos) can be imported to the caption editor screen using a PC to create on-screen sprites. Still images or animated icons in gif format can all be added to an incoming video source or a self-generated color background.

Other controls include showing/hiding the text, showing/hiding the picture images, showing/hiding the caption area and showing/hiding the clock on the page.



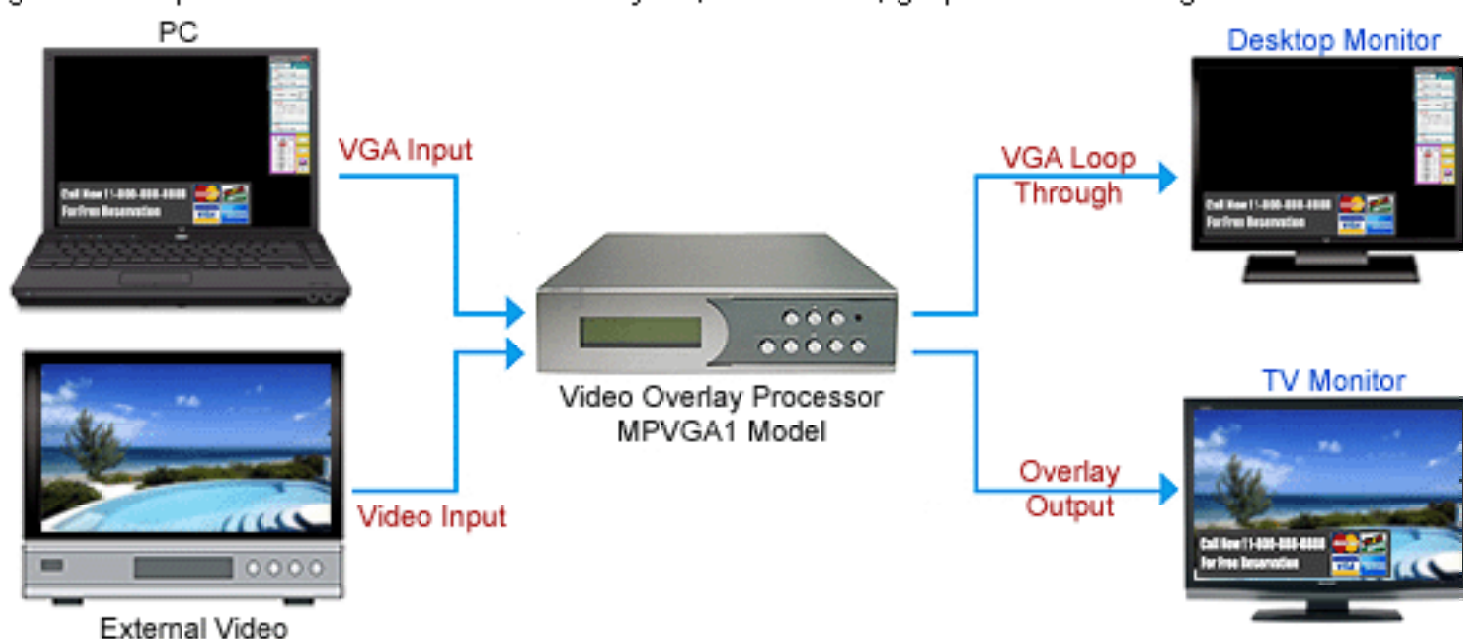
Caption Software Control Panel

Easy Caption Software Operation

The captioning software bundled in this package allows users for keying, sizing and positioning to be done from any PC running Windows OS. It provides easy subtitling with comprehensive selection of font styles, font colors, graphics and backgrounds.

To create text or subtitles, users can use the editor from starting up the captioning software in a PC for:

- Writing up text messages, subtitles for composing first before publishing them.
- Importing and uploading digital images to the editor screen for preview.
- Adding logos or icons or slogans for digital signage.



This caption software also provides users with great flexibility to arrange text titles or messages in rolling or static style for advertisement to appear on videos. Text scrolling can be in either horizontal or vertical styles as the following screens showing:



Vertical Style Text Rolling For MPVGA1 Model



Horizontal Style Text Rolling For MPVGA1 Model

Converts Computer VGA Video Into TV Video Signal

This unit is also served as a standard PC to TV video scan converter, providing high-quality video output with advanced filtering technology built in to remove flickers during the scan rate conversion.

Enjoying great entertaining experience when playing pc video games or DVD/VCD movies from computer and watch them on a big screen TV display or projector. Also a cost saving and easy way to use big screen TV set for video display. Users can simply use any TV, projector, video wall or plasma screen in the meeting room to show audience the presentation prepared from the computer screen or record computer session by using video recorder.





Easy Operation With Front Panel And IR Remote

This video overlay processor can be operated through the push buttons on the front panel or the supplied IR remote.

Dual Channel TBC Processor

This video overlay processor system is featured with full-frame Time Base correction circuit, which will synchronize computer-generated texts/titles/captions or graphics with other video feed from media source such as video camera, camcorder, DVD/VCR player, cable TV box, satellite receiver, DVR, video recorder and any other analog composite video source for smooth and quality video output for playback, recording or further video production.

Detailed Presentation

Other user-friendly features including **Pan, Position, Zoom functions** for more detailed presentations. **The proprietary 9-area screen zoom selection.** There are 9 buttons on the remote controller representing 9 sub-areas of the full screen. Press any one of the buttons to select its corresponding sub-area (about 1/9 of the VGA screen size) to be enlarged into full screen display on TV for more detailed presentation or special emphasis.

Built-in Color Bar

Its integrated Color Bar testing screen for users to easily check colors and calibrate the TV or monitor's color elements like contrast, brightness, etc. to maintain best video quality.

Auto Save User Settings

When you finish the setting of this unit, all the video settings and adjustments you did before will be automatically memorized. No need to reset again when you use it next time.



- Full-featured **PC-based chroma key processor** with selectable background color keying.
- Single channel composite video character and graphic overlay device with real-time clock.
- This video overlay system provides high quality video output and cost effective solution of adding text titles and images into existing video feeds in real time for comprehensive video applications such as subtitling, captioning, advertising, logo insertions and adding computer data to video.
- High quality computer graphic to TV video scan converter with overlay and mixer support.
- Perfect tool for DIY Karaoke content by creating special visual effects like icons, pictures, graphics, titles, subtitles, lyrics, deception, time clock, date, etc to the music video for private video production.
- **4 selectable output modes for overlay mode, mixer mode, VGA pass mode and video pass mode.**
- Supports **text scrolling** in horizontal and vertical styles.
- **Independent horizontal/vertical sizing and positioning.**
- **4 selectable chroma/Luma color keying in blue, green, red and black color.**
- Converts computer screen into Composite and S-Video outputs plus computer monitor loop-through.
- Featured with overlay function for **superimposing the computer-generated text, graphics and images onto live video feeds for instant broadcasting.**
- The supplied **captioning software** provides an easy subtitling tool with comprehensive selection of font styles, font colors, graphic templates and background colors from using any Windows-based PC.
- Supports **Pan, Position, Zoom functions** for more detailed presentations.
- Simultaneous computer screen output on both TV display and computer VGA monitor via the pass-through.
- Supports worldwide video system in NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM.
- Manual push-button operation or convenient IR remote controller operation.
- Full 24-bit signal processing with 16 million colors.
- Built-in color bar generator.
- Universal power supply for worldwide use.

Remote Controller for VGA Overlay Processor



- **Video Titles / Sub Titles / Caption Text Generator:** Add PC text/graphic into video with icons, pictures, graphics, titles, subtitles, lyrics, deception, time clock, date, etc for special visual effects.
- **Education/Business Video:** Add text and computer graphic to corporate or training class video for presentation or informational broadcast.
- **CCTV security surveillance:** Merges computer-based DVR output with external video feeds for semi Picture-in-Picture effect.
- **Commercial or home video production:** Great for providing caption or titles for individual video movies.
- **Digital Signage:** Using computer imaging tool for preparing media content for all electronic bulletin board or information kiosk display.
- **Home Entertainment:** Enjoy PC games, internet videos or DVD movies on TV. Create your own Karaoke video with lyrics using your computer.
- Class rooms/ training or any other media presentation events.
- Computer video or internet video broadcast.
- Multimedia events for classrooms and bible software output for churches.
- Computer video recording on VCR/DVD recorder.
- PC video game output to TV for home entertainment.
- Superimpose PC text and graphics onto another video signal.



Specifications

- **S-Video Bandwidth:** 5.5 MHz
- **VGA Input Support Format:**
 - 640 x 480 pixels at 60/72/75/80/85Hz
 - 800 x 600 pixels at 60/72/75/80/85Hz
 - 1024 x 768 pixels at 60/72/75/80/85Hz
 - 1280 x 1024 pixels at 60/72/75/80/85Hz
 - 1600 x 1200 pixels up to 60Hz
- **Video Inputs:** Composite RCA + S-Video + VGA
- **Video Input/Output System:** NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM
- **Video Outputs:** Composite RCA + S-Video + VGA Pass-Through
- **Operating Temperature:** 0 to 48 degree C
- **Front Panel Control:**
 - Colorbar
 - Video output system setup
 - Output mode selection for overlay, mixer, PC VGA pass, video input loop-through
 - Overlay color keying mode selection of blue/green/red/black key
 - Video quality adjustment
 - Video screen position and sizing adjustment
 - Power On/Off
- **Remote Controller Support:**
 - Power On/off
 - OSD menu on/off
 - TV output system selection
 - Output mode selection
 - Colorbar test pattern on/off
 - Zoom On/Off Control
 - Pan the PC picture Up, Down, Right and Left
 - System reset
 - Picture quality/color adjustment
 - 9-Subscreen Zoom
- **Power Supply:** 100-240V AC In with 9V DC 2A output (US/EU standards, CE/FCC/UL certified)

Push Buttons On Front Panel



- 1: Colorbar: The color bar test pattern can test each key function.
- 2: TV system: Press to select video output system.
- 3: Output: Press to select video output mode after process.
- 4: ▲ and ▼: Press to toggle through various control or setting value.
- 5: Mode: Press first to select different main category function and next press ▲ and ▼ to select sub category.
Output mode: Overlay, Video input, Mixer, PC input.
TV system: NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM.
Overlay mode: Blue key, Green Key, Red key, Black key.
PC Zoom: Off, Position1 to Position 9.
- 6: Adjust: Press the button continuously to toggle through picture selection mode. There are Contrast, Bright, Color, Hue, Detail, Flick, Horizontal size, Vertical size, H Position, Vertical Position, Phase and Level.
- 7: Power On/Off
- 8: Power LED

Package

- Video overlay processor
- Remote controller
- Caption software cd disc
- Power adapter
- VGA cable x1
- Composite RCA video cable x1
- User's manual