

Overview:

A common requirement for many professional A/V installations is the ability to use a single display device to show a variety of normal, standard definition TV signals (SDTV) and computer sources. The ability to easily control the switching between these various sources, via a third party remote control, is essential in creating an easy to use and professional system.

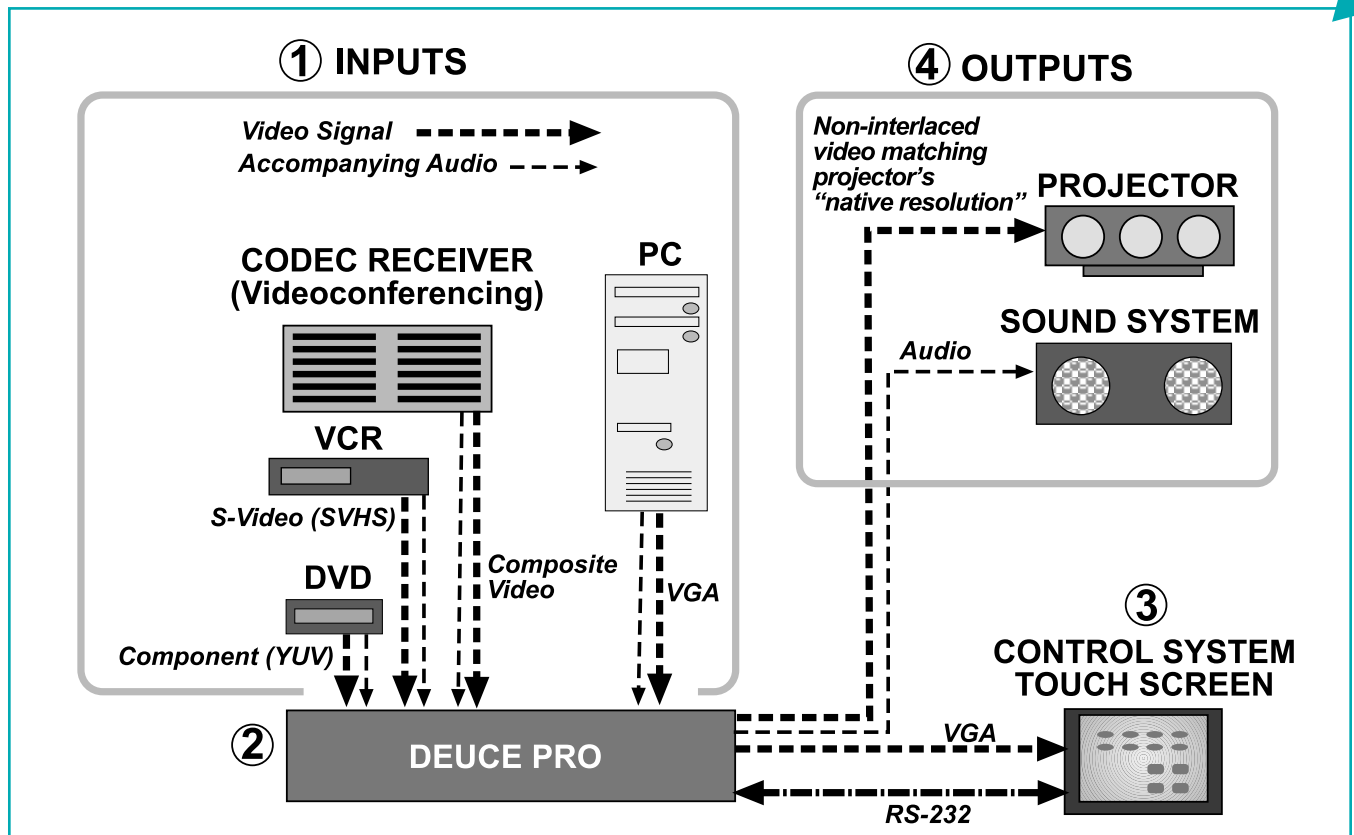
Other key requirements are the ability to simultaneously switch audio signals with their corresponding video signals (“audio-follow-video”) and to provide a video signal to a confidence monitor at the speaker’s control area.

This TECHnique will explain how DEUCE[®] Pro Intelligent Video Scaler allows for easy switching of multiple SDTV signals along with computer and audio signals.

Details:

Deuce Pro accepts SDTV inputs on three separate inputs and will scale these signals to any of ten resolutions (both 4:3 and 16:9 ratios). Inputs #1 and #2 each have a composite (BNC) and S-Video (4-pin mini DIN) connection. Input #3 has 4-BNCs for either component (YUV) or RGB Analog signals. Input #4 is a 15-pin HD which allows for passive switching of computer signals.

Ideally, the user should set the computer source to the optimal resolution for the display device (known as the “native resolution”) and also set Deuce Pro to scale the SDTV inputs to this same native resolution. Then, by selecting different inputs on Deuce Pro, the user can switch between any of the connected sources, with each source now “scaled” to match the native resolution to the display device. As a result, the display will perform to its top potential,



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generating the sharpest, brightest and clearest image.

Deuce Pro also provides for audio-follow-video switching of stereo line level audio signals with each input. This allows the user to input audio from standard VCR's, DVDs and computer sound cards and route these audio signals with the source video signal directly to the display device or into a larger sound system.

Deuce Pro features complete control of all functions via an intuitively designed, easy-to-use front panel. Since Deuce Pro allows for complete remote operation via RS-232, it can be fully integrated into a third party control system.

Suggestions:

Deuce Pro provides two simultaneous, buffered, scaled outputs. This allows for one output to be routed to the display device and the other to a confidence monitor.

In addition, Deuce Pro offers a VGA "pass-through" output. This can be used to accommodate the VGA video input often found on the touch screen panel for the control system in boardrooms and larger A/V systems. Using this input enables the user to overlay the control system program with the same video that is being viewed on the main display.

The number of inputs for Deuce Pro can be expanded by integrating switchers into the system. For example, the Communications Specialties Inc. QuadSwitch™ for VGA accepts up to four VGA input signals. By connecting the control system to the RS-232 ports on both Deuce Pro and QuadSwitch for VGA, the control system can allow the user to select any one of four VGA signals to be routed through Input #4 on Deuce Pro.

CSI Products Used In This TECHnique:

- Deuce Pro Intelligent Video Scaler 2210A
- CAB-43; Coaxial Cable 1143
- CAB-19; VGA Cable 1119
- CAB-59; Composite Video Cable 1159
- CAB-30; S-Video Cable 1130
- QuadSwitch™ for VGA 1340

Related TECHniques:

- Educational Guides:
 - *Introduction to Video Scaling*
 - *Advanced Video Scaling*
- T-07 Using Deuce Video Scaler in Videoconferencing Applications
- T-05 Using Deuce Video Scaler in Video Cube and Video Wall Applications
- T-12 Using Deuce to Match The Native Resolution of a Display