

Switcher Basics

Before using your switcher, it is important to become familiar with the how audio and video is handled by the switcher. Some important concepts includes video sources, video layering and re-entry, and preview. For information on setting up video inputs, refer to the Setup Guide that came with your switcher.

Audio and Video Processing

Video and audio signals are processed and passed through the switcher in different ways, depending on how the switcher is being used or is set up. A better understanding of how the switcher is processing these signals help you to achieve the production you want.

Video Processing and Flow

Video is processed in a number of blocks in the switcher. After video comes into the switcher, the frame synchronizers / format converters are applied (depending on the frame you have). At this point any required color correction is also applied. After input the video signal is routed through the crosspoint. The crosspoint can route any input to any output for straight switching, or to the video processor and DVE and back for video manipulation. Just before the video signal is sent to the output, the processing of the ancillary data is performed.

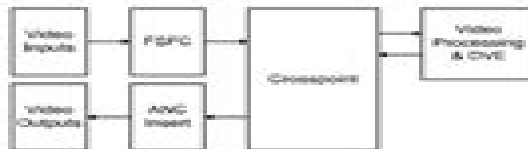


Figure 3: Video Flow Through the Switcher

Audio Processing and Flow

Unlike video, the switcher does not handle audio signals independently. An audio signal is embedded into the ancillary data of a video signal before it comes into the switcher. As the signal comes into the switcher and is manipulated, you must ensure not to perform an operation that will force the ancillary data to be stripped. Specifically, this includes any format conversion on the input video signal or stripping of the ancillary data.

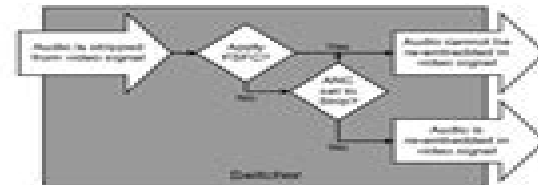


Figure 4: Audio Flow Through the Switcher

When you are performing a transition, or keying, the embedded audio is carried in the ancillary data of the background video signal. The ancillary data from the background source is replaced with the ancillary data from the preset source, and the ancillary data for keyed sources is stripped. In the case of the MultiViewer, you can select which ancillary data stream is included in the MultiViewer output.

Video Sources

The switcher has access to two basic types of video sources, external and internal. All video sources can be assigned to video source buttons. By pressing a video source button on a bus, the video source assigned to that button is selected on that bus.

- **External** — External video sources come from cameras, video servers, character generators, or other external devices into the switcher.
- **Internal** — Internal video sources come from internally generated video, such as Media-Store channels, matte color, and black.

To Select a Source on a Bus

To select a video source on a bus, you must identify the ME, MiniME™, Aux, or MultiScreen and bus you want to assign a video source to, and then press the source button you want to select on that bus.

The user buttons on the control panel can be assigned to any ME, MiniME™, Aux Bus, or MultiScreen for quick access, or any button can be held to allow you to select the ME, MiniME™, Aux, or MultiScreen.

Tip: Source selection can also be made from the **Buses** tab on the Live Assist node in Dashboard. Key bus source selections can also be made using the **Key Source** button on the **Keyers** tab on the Live Assist node in Dashboard.

1. Select the ME, MiniME™, Aux, or MultiScreen that you want to select a source on.
 - **ME** — press the user button assigned to the ME, or press and hold a user button assigned

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Disturbances of various domains of cognitive function have been shown to provide a major determinant of outcome for patients with psychiatric conditions Cognitive impairment is present in an array of diseases including schizophrenia with its prodromal stage mood disorder autism spectrum disorder obsessive compulsive disorder anxiety disorder post traumatic disorder and eating disorder In an effort to develop effective therapeutics for cognitive impairment bridging of preclinical and clinical evidence has been attempted This edited Book will provide a forum for researchers and clinicians interested in the phenomenology underlying mechanisms and treatment of cognitive impairment associated with psychiatric illnesses Twenty eight contributions from 8 countries in Europe Middle East Asia North America and South America represent studies dealing with genetic molecular imaging physiological psychological and behavioral issues Information in this Book will facilitate the development of therapeutics of greater clinical value **The Engineer** ,1884 *Official Gazette of the United States Patent Office* United States. Patent Office,1974 **Official Gazette of the United States Patent and Trademark Office** ,1993 *Popular Science* ,1973-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better Title List of Documents Made Publicly Available ,1988 **The Electrical Journal** ,1903 English Mechanic and Mirror of Science ,1878 **Engineering News** ,1905 **Monthly Catalogue, United States Public Documents** ,1941 United States Government Publications Monthly Catalog ,1941 Monthly Catalog of United States Government Publications, Cumulative Index United States. Superintendent of Documents,1953 *Canadian Electronics Engineering* ,1988 Scientific American ,1893 Monthly magazine devoted to topics of general scientific interest

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web practice sheet 2 we are looking for a wide range of data based on the information that is provided to you about an element or ion atomic structure quiz you will give 3 pieces of data and are asked to complete this here chart for us

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web the atomic number tells you the number of of an n one atom of an element it also tells you the number of in a neutral atom of that element the atomic number gives the identity of an element as well as ts location on the periodic table no two different elements will have the give the symbol and number of protons in one atom of atomic number