

## 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.

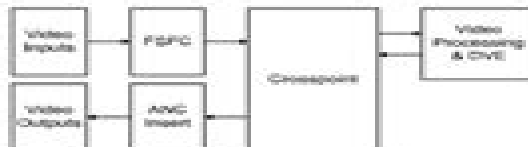


Figure 3: Video Flow Through the Switcher

#### 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.

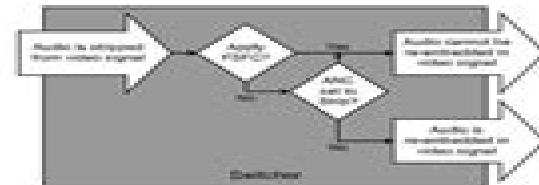


Figure 4: Audio Flow Through the Switcher

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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