

# X Video Card

## APOGEE X-SERIES

### Preliminary Data Sheet X-Video expansion card for the BIG BEN Master Clock

Designed to fit in the X-Series card slot located in the rear panel of the BIG BEN. All functions controlled from the BIG BEN user interface. Generates Video and provides Genlocking function.



#### Features:

- Support for PAL, NTSC and 60 Hz B&W standards
- One composite video input and three composite video outputs
- Can operate as a master black-burst generator
- Can operate as genlocking slave device
  
- In genlocking mode the source video-signal will be re-clocked and regenerated, maintaining the same field and colorburst phase information, but stripped of its line information and replaced by video-black.
- In slave mode the board will auto-detect the incoming video-standard and configure itself accordingly. The video input is of very high tolerance and will even lock to unstable sources like VCR's.

#### There are three modes of operation:

- Master mode: The user selects the video format on the frontpanel of the BIG BEN. The BIG BEN will slave to the generated video signal.
- Attended Slave mode: The video board will be configured to autodetect and genlock to the incoming video. The BIG BEN will slave to the incoming video signal.
- Unattended Slave mode: The video board will be configured to autodetect and genlock to the incoming video. The BIG BEN is not clocking to the Video board and therefore both will function independently.

#### Specifications:

- ▶ Inputs: 1 x BNC 1Vpp at 75 ohm
- ▶ Outputs: 3 x BNC 0.3Vpp, 75 ohm
  
- ▶ Clocking: Temperature compensated crystal.
- ▶ Stability: 5 ppm

#### Supported standards:

- |             |      |  |
|-------------|------|--|
| ▶ 625/50    | PAL  | composite black-burst with color burst |
| ▶ 525/59.94 | NTSC | composite black-burst with color burst |
| ▶ 525/60    | B&W  | composite black-burst                  |

(Board can be configured to generate color bar through internal jumper)

