

Overture 1

High Performance Video Production Switcher



Echolab's revolutionary Overture1ME panel has industry standard look-ahead preview architecture, offering ease-of-use and familiar operation. The sleek panel fits in a standard rack, and is perfect for small production environments such as flight packs & OB vans. The 1ME panel has six keys for unprecedented layering in a switcher of this size. This offers amazing power in terms of creative control. Four upstream effects keys support luma, chroma, & preset pattern keys. Two of the four effects keyers have integrated DVE's. Two downstream keyers allow title keying for graphics, logos, and bugs. Both background and key transitions can be set up and previewed with a complete look-ahead preview system.

Overture1 Specifications

General

| | |
|--------------------|------------------------------|
| Video Processing | 10 bit 4:2:2 Serial Digital |
| External Reference | Analog, Digital or Tri-level |
| Status Indicators | Yes, LED |
| Width | 17.13" (43.51cm) |
| Height | 20.94" (53.19cm) |
| Depth | 11.89" (30.20) |
| Size in RU | 12 RU |

Inputs

| | |
|----------------------------|----------------|
| Number of Inputs | 16 - 32 |
| HD-SDI | Yes |
| SD-SDI | Yes |
| Analog YPbPr Component | HD and SD |
| Analog RGB Component | HD and SD |
| Y/C (S-Video) | Yes |
| Composite (CVBS) | Yes |
| Input "Self Timing" Window | +/- 3/8 Line |
| Auto Equalization | 200 Meters Max |
| Return Loss | 15dB Minimum |

Outputs

| | |
|---------------------------|-------------------|
| Number of Outputs | 8 - 16 |
| HD-SDI (SMPTE 292M) | Yes |
| HD Analog YPbPr Component | Yes |
| HD Analog RGB Component | Yes |
| SD-SDI (SMPTE 259M) | Yes |
| Analog YPbPr Component | Yes |
| Analog RGB Component | Yes |
| Y/C (S-Video) | Yes |
| Composite (CVBS) | Yes |
| Output Signal Level | 750-850 mV p-p |
| Rise/Fall Time | 220ps Max |
| Overshoot | 10% Maximum |
| Additive Jitter | 25 pS p-p typical |
| Program Output | User Configurable |
| Preview Output | User Configurable |
| Aux Outputs | User Configurable |
| Clean Feed | User Configurable |

Supported Native Resolution

| | |
|-------------|-----|
| 1080/59.94i | Yes |
| 1080/50i | Yes |
| 720/59.94p | Yes |
| 720/50p | Yes |
| NTSC | Yes |
| PAL | Yes |

Power

| | |
|--------------------------------------|-----------------------|
| Single Power Supply | Standard |
| Redundant Hot Swappable Power Supply | Optional |
| Input Voltage | 120-220V, 4A, 50-60Hz |
| Power Usage | 200W Max |

Connectivity

| | |
|----------------------|--------------------------|
| Edit Port (RS 422) | 4 |
| Serial Port (RS 232) | 2 |
| Ethernet | Gigabit |
| Tally | 32 Mappable Tally Relays |
| GPIO | 3 In, 2 Out Programmable |
| External Memory | Compact Flash |

3rd Party Protocols

| | |
|-----------------------|-----|
| VDCP | Yes |
| Compix | Yes |
| Pixel Power | Yes |
| Avitech Multi-Monitor | Yes |

User Configurations

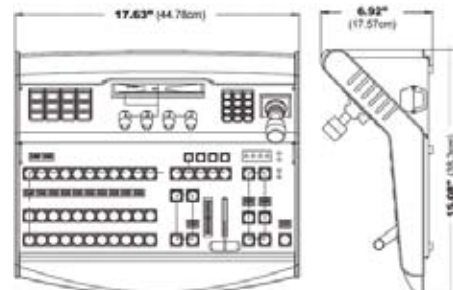
| | |
|----------------------|------------------------------|
| Number of User Modes | 8 |
| User Mode Interface | PC Based |
| Source Naming | Yes |
| Source Mapping | Any Source to Any Crosspoint |
| GPIO Events | User Programmable |
| Lamp Saver Mode | User Programmable |
| Native Resolution | User Programmable |
| Network Settings | User Programmable |

Features

| | |
|--|---------------------------------|
| Internal Frame Synchronization | 4 Standard, Additional Optional |
| Internal A to D and D to A Conversion | Yes |
| Internal Up/Down/Cross Conversion | Optional |
| Simultaneous Analog and Digital Output | Yes |
| Upstream Keyer | Yes |
| Chromakeyer | Yes |
| Downstream Keyers | Yes |
| 3D DVE | Up to 4 Channels |
| Frame Buffers | 1 with Alpha Channel |
| Capture to Frame Buffer | From Any Input |
| View Modes | Frame, Field 1 |

Documentation / Support / Warranty

| | |
|----------------------------------|-------------|
| Installation Guide | Yes |
| Operation Manual | Yes |
| Training DVD | Yes |
| OnSite Commissioning | Available |
| OnSite Training | Available |
| 24/7 Lifetime Phone Tech Support | Yes |
| Warranty | Full 3 Year |
| Free Firmware Upgrades | Lifetime |



Overture 1

High Performance Video Production Switcher

1. Universal System Control

The world's most powerful, user-friendly system menu to date. The USC offers quick accessible control of virtually every element of switcher operation from wipes to DVE's, Keys, Borders, Patterns. And also provides control of external devices such as VTR's, CG's and Clip-Stores. Twelve bit-mapped LCD buttons for context-sensitive menu-driven operation.

2. Frame Buffers (with Alpha Channel)

Integrated graphics store. Support for video capture from any source. Software utility for upload and download of images over industry standard networks. Native file support for Nova (.nov) provided via Photoshop plug-in.

3. Dual Power Supply

No downtime! The Identity 4 Panel comes standard with dual auto switching power supplies. Indicators show status. Low power consumption (less than 25 watts).

4. Select Bus (with Full Display LED)

Select BUS allows for easy source assignment for ALL 6 Keyers (video and key), 12 AUX Busses, Effects Borders and multiple Frame Stores.

5. Source Names

All sources both internal and external can be named and mapped to any crosspoint.

6. Program Bus

10 direct cross points with shift allows for rapid access to all sources. LED buttons (Bi-color) show on-air status for confident live production.

7. Preview Bus

Dedicated background source selection for next transition. Flip-flops with "program" at the end of a background transition.

8. Preview Transition Function

Dedicated PREVIEW TRANS button. When lit, effects transitions can be manually scrubbed and reviewed with the fader bar BEFORE going to air.

9. Transition Control

Frame-accurate wipes and dissolves can be performed through the AUTO TRANSITION button or taken directly to-air via CUT. LED indicators for Auto transition rate and status.

10. Top Display and Control

Assignable multi-function soft keys and rotary encoders. Large status display for ease in live production.

11. Joystick Control

Top quality Penny & Giles three axis joystick for versatile pattern and DVE control.

12. Next Transition with "Look Ahead" Preview

Phenomenal video layering support. 1 background and 4 effects key layers upstream! Separate on air indicators linked to each effects keyer.

Each key layer has standard support for:

- Full linear luminance keys
- luminance chroma keys
- Full pattern generators in each keyer (Key 3 & 4 also have integrated 2D DVE's with z-axis rotation)
- soft-edged color borders
- key-frame moves
- fly mode - flying video & key

13. Downstream Keyers

TWO full function independent, Downstream Keyers. Excellent for simultaneous logo and graphics insertion. Each DSK has independent controls for CUT and AUTO transitions and separate DSK previews and FTB (Fade to Black).

Dimensions:

Panel size: W 17.63" x D 15.08" x H 6.92"

Check website for detailed measurements.

