

SONY[®]

Editing Control Unit
BVE-700



Editing Control Unit

BVE-700

The BVE-700 is a compact and affordable edit controller, designed specifically for use in HD post-production applications. Based on the functionality of the popular BVE-800/600 Series of edit controllers, it provides quick and very straightforward A/B-roll editing procedures. Its compact processor can accommodate an HD switcher board and, with option installed, it then forms a low-cost, integrated edit controller/switcher that is easy to install into small high-definition systems.

The BVE-700 covers a full array of HD post-production applications with its multi-frequency capability. The unit is instantaneously switchable between a wide variation of operating modes including 1080/60i, 1080/50i and 1080/24P.

The BVE-700, packaged with a variety of convenient functions and features, provides a low-cost and smooth upgrade path to small HD systems or migration into large-scale HD operations.



Features

Excellent operational convenience

The BVE-700 adopts the universally accepted, two-dial style of operation that provides fast cue-up to edit points. The two sophisticated jog/shuttle dials provide the operator with a comfortable feel, and are optimally positioned for quick access. Controls for associated players and recorders are located where they can be reached while using the jog/shuttle dials.

In addition to the edit command and effects buttons, an area in the control panel center also includes a ten-key pad to input time code data. As well as typing mark-in/out time codes, these keys can be used to recall effects by their numbers when an external switcher is connected.

The upper area of the panel includes easy-to-read TC/CTL displays, below which are buttons to control switcher and source selection.

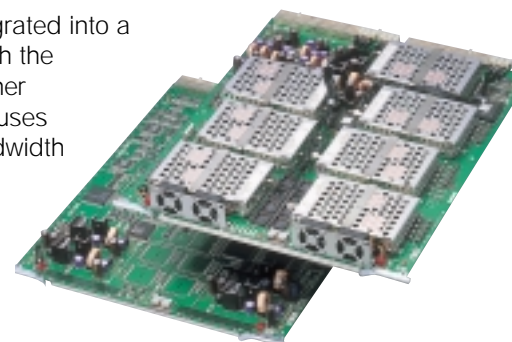
The easy way in which the BVE-700 control panel operates is a result of using very clear indicators, large and comfortable buttons, and an ergonomic, well-designed layout.

A/B-roll editing

Via the 9-pin serial interface, up to four VTRs can be connected to the BVE-700, three of which can be assigned as players. During an A/B-roll edit, any two of the three players can be controlled simultaneously with the recorder.

Plug-in HD switcher

The BVE-700 can be integrated into a compact HD edit suite with the optional plug-in HD switcher (BKE-701). The switcher uses 10-bit/74.25 MHz full bandwidth processing to maintain picture clarity, and provides a variety of wipe patterns. The switcher also provides a high quality linear keyer.





BVE-700 Control Panel

In addition to 1080/24P, the switcher can also operate on 60, 59.94, 50, 30, 29.97, 25 and 23.97 Hz frequencies to accommodate the different demands in HD production.

External switcher/audio mixer interface

Via its serial interface, the BVE-700 can control external switchers such as the Sony DFS-700. In this configuration, cross points, effect patterns and effect durations can be set on the BVE-700 control panel for A/B-roll editing. Control of cross fades on audio mixers is also available through a serial interface using the E/SAM protocol.

Eight-channel audio editing

The BVE-700 allows up to eight channels of audio to be controlled during editing, accommodating the frequent need for more audio channels in HD production.

Other enhanced editing functions

- Pre-read function allows two-machine A/B-roll editing and one machine title insertion
- Absorbs timing delays caused by the use of up/down converters or other external equipment
- 1000 events can be stored in the internal EDL

Compact size

The BVE-700 consists of a 17-inch wide control panel and a compact processor that is only 3 units high, including the HD switcher. This means that a BVE-700 and associated HDCAM VTRs can easily be installed into a conventional Betacam® VTR-based, A/B-roll suite without additional space being required – an important factor for a smooth transition to high definition operations.

Specifications

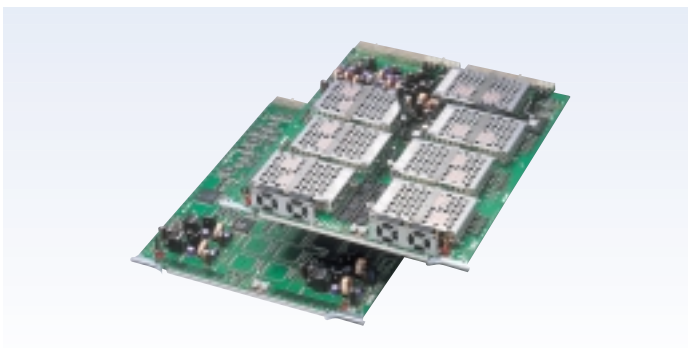
Power requirements:	100 to 240 V, 50/60 Hz	VTR control:	RS-422A x 4 Player-1, 2, 3, Recorder
Power consumption:	250 W	External switcher control:	RS-422A Sony Switcher Protocol
Operating temperature:	5 °C to 40 °C (41 °F to +104 °F)	Audio mixer control:	RS-422A , ESAM-II
Storage temperature:	-20 °C to +60 °C (-40 °F to +140 °F)	Multi-event EDL:	1000 events
Dimensions (W x H x D)	Processor: 440 x 132.4 x 520 mm (17 3/8 x 5 1/4 x 20 1/2 inches) Panel: 440 x 87 x 340 mm (17 3/8 x 3 1/2 x 13 1/2 inches)	Supplied accessories:	Connection cable (processor-control panel) Operation Manual Installation Manual User's Guide
Weight	Processor: 10 kg (22 lb 0.7 oz) Panel: 4 kg (8 lb 13 oz)	Optional Accessory:	BKE-701 HD Switcher Board
Reference signal:	BNC, 1080/47.96, 1080/48, 1080/50, 1080/59.94, 1080/60, 525/59.94, 625/50 Hz		

BKE-701 HD Switcher Board

Video format	1080/60i, 59.94i, 50i 1080/30P, 29.97P, 25P, 24P, 23.97P	Effect type	Cut, Dissolve, Wipe, Mosaic
HD SDI video inputs	5 inputs Player1, 2, 3 / AUX (selectable), Title , Recorder	Key	Key On/Off Key Transition Matte Fill External Key
HD SDI video outputs	3 outputs 2 video out, 1 monitor out	Wipe modify	Border On/Off, Border Width, Border Color, Softness



Rear Panel of BVE-700 Processor Unit



BKE-701 HD Switcher Board

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