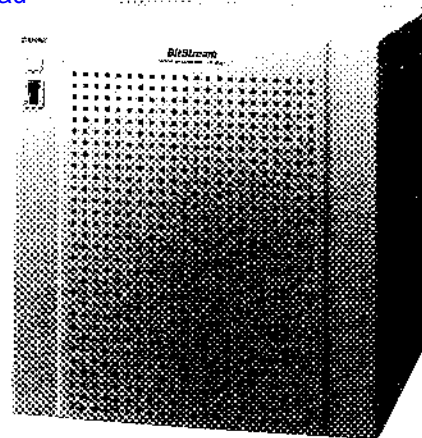


# VST-1000AP [Downloaded from: www.broadcast-trader.com.au](http://www.broadcast-trader.com.au)

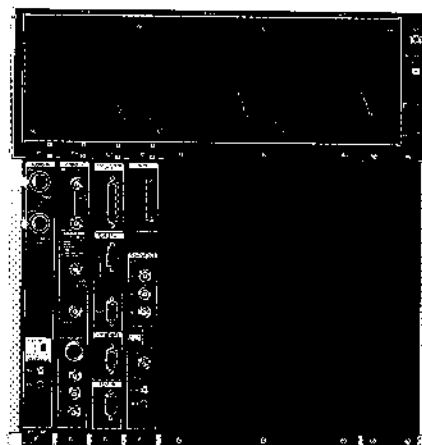
## MPEG-2 Encoding unit

- 5Mbps or 10Mbps MPEG-2 Main Profile @ Main Level 4:2:0 Real Time Encoding
- Processes full-bandwidth analog video input in either component, composite, or S-Video formats (BKST-106P)
- SDI input option with BKST-103 SDI Input Board
- Two channel (BKST-101) or four channel (BKST-102) audio input board is available with balanced/unbalanced connectors
- Built-in decoder board with component or composite video outputs and four channel audio monitoring for encoder monitoring
- Optional Motion Estimation Expansion Board (BKST-105) provides 200% expansion of the motions detection area for further improvement of image quality
- Embeds clip ID number into MPEG-2 bit stream for playout verification
- Application control through either RS-422A or RS-232C
- Built-in RS-422A VTR machine control
- Predictive Maintenance fault tolerance



Supplied accessories: Terminator for SCSI interface (x1)  
MPEG-2 Stream Cable (x1, length: 5m)  
Rack Mount Bracket for 5U (x 4)

Optional accessories: BKST-101 Two Channel Audio Input Board  
BKST-102 Four Channel Audio Input Board  
BKST-103 SDI Input Board  
BKST-105 ME Expansion Board  
BKST-106P Analog Video Input Board  
RMM-18DV Rack Mount Rail  
SDX-VS300 AIT Drive Unit  
SDX-T3N AIT Data Cartridge



## Specifications

### General

Power Requirements: AC 100 to 240V, 50/60 Hz  
Power Consumption: Approx. 350W  
Operating Temperature: 10 to 35°C (50 to 95°F)  
Storage Temperature: -20 to 55°C (-4 to 131°F)  
Operating Humidity: 30 to 70%  
Storage Humidity: 20 to 75%  
Dimensions: 424 (W) x 443 (H) x 480 (D) mm  
(16 3/4 x 17 1/2 x 19 inches)  
Mass: Approx. 26.6 kg (58 lb 10 oz)  
Approx. 28.6 kg (63 lb 2 oz) - Fully optioned

### Video Inputs (with optional BKST-103 or BKST-106P)

< BKST-103 SDI Input Board >  
DIGITAL IN: BNC (x1), 10bit 4:2:2 component serial digital video signal

ANALOG IN: COMPONENT BNC (x3)  
Y: 1.0 Vp-p, 75Ω, sync negative  
R-Y: 0.7 Vp-p, 75Ω  
B-Y: 0.7 Vp-p, 75Ω

REFERENCE VIDEO IN: BNC (x2, One for loop-through)  
1.0 Vp-p, 75Ω (ON/OFF switchable), sync negative

< BKST-106P Analog Video Input Board >  
COMPOSITE IN: BNC (x2, One for loop-through)  
1.0Vp-p, 75Ω (ON/OFF switchable), sync negative

COMPONENT 1 IN: Circular 12-pin (x1)  
Y: 1.0 Vp-p, 75Ω, sync negative  
R-Y: 0.7 Vp-p, 75Ω  
B-Y: 0.7 Vp-p, 75Ω

COMPONENT 2 IN: BNC (x3)  
Y: 1.0 Vp-p, 75Ω, sync negative  
R-Y: 0.7 Vp-p, 75Ω  
B-Y: 0.7 Vp-p, 75Ω

S-video (Y/C) IN: DIN 4-pin S-terminal  
Y: 1.0 Vp-p, 75Ω, sync negative  
C: 0.3 Vp-p, 75Ω at burst

REFERENCE VIDEO IN: BNC (x2, One for loop-through)  
1.0 Vp-p, 75Ω (ON/OFF switchable), sync negative

### Audio Inputs (with optional BKST-101 or BKST-102)

< BKST-101 Two Channel Audio Input Board >  
BALANCED: XLR-3 type (x2, for 2 channels), +4dBu, 600Ω or 10kΩ (selectable)  
UNBALANCED: Phono (x2, for 2 channels), -10dBu, 47kΩ

< BKST-102 Four Channel Audio Input Board >  
BALANCED: XLR-3 type (x4, for 4 channels) +4dBu, 600Ω or

### Video Monitor Outputs

COMPOSITE OUT: BNC (x1), 1.0Vp-p, 75Ω, sync negative  
COMPONENT OUT: BNC (x3)  
Y: 1.0Vp-p, 75Ω, sync negative  
R-Y: 0.7Vp-p, 75Ω  
B-Y: 0.7Vp-p, 75Ω

### Audio Monitor Outputs

UNBALANCED OUT: Phono (x2, for 2 channels), -5dBu, 47kΩ  
HEADPHONE OUT: Stereo Phone (x1) -14dBu (with volume control), 8Ω

### Interface

MPEG-2 STREAM OUT: D-sub 25-pin, RS-422A  
CONTROL 232C: D-sub 9-pin, RS-232C  
CONTROL 422A: D-sub 9-pin, RS-422A  
VTR REMOTE: D-sub 9-pin, RS-422A  
STATUS: D-sub 9-pin, RS-232C  
SCSI: SCSI-2 (Half-pitch)

### Signal Processing

VIDEO Encoding  
Video Coding: MPEG-2 MP@ML SYNTAX  
Source Format: CCIR REC601, 720 pixels x576 lines

MPEG-2 Coding Algorithm  
Frame Structure Fix: Frame/Field MC, DCT adaptive  
Motion Vector Range: Horizontal:  
Max. 48 pixels  
Max. 96 pixels  
- with the optional BKST-105  
Vertical:  
Max. 32 lines  
Max. 48 lines  
- with the optional BKST-105

### AUDIO Encoding

Audio Coding: MPEG AUDIO LAYER 1/2  
Sampling Frequency: 48 kHz  
Bit Rate: Stereo 256 kbps  
Mode: Stereo  
Audio/Video Bit Rate: 5.0Mbps/10Mbps, selectable