

# ABEKAS 6000

## Specifications

### Disk Storage

The Abekas 6000 provides compressed 8-bit digital video and uncompressed digital audio storage on a RAID-5 parity protected disk array. Both DVCPRO and MPEG-2 compression is supported and both may be recorded at 25Mb/s or 50Mb/s (*User Selectable*).

Real time disk recording and playback at one of two line standards (*User Selectable*):

- 525 Line Standard @ 30 frames / 60 fields per second
- 625 Line Standard @ 25 frames / 50 fields per second

### Video Input

SDI Mode: Serial Digital Video, SMPTE 259M in 525 line standard; EBU-Tech.3267-E in 625 line standard. Includes VITC readers, Embedded Digital Audio.

- Each 2-In/2-Out Encode/Decode Card . . . . . (2) **F** BNC

### Video Output

SDI Mode: Serial Digital Video, SMPTE 259M in 525 line standard; EBU-Tech.3267-E in 625 line standard. Includes VITC generators, Embedded Digital Audio.

- Each 2-In/2-Out Encode/Decode Card . . . . . (2) **F** BNC

Composite Analog Video for monitoring. Second output in each pair has status overlay that's switchable on/off.

- Each 2-In/2-Out Encode/Decode Card . . . . . (4) **F** BNC<sup>†</sup>

### Audio Input

AES/EBU digital audio with 48kHz sampling at 24-bit resolution, with 20-bit resolution for embedded audio. Four track audio for each video channel.

- Each Digital Audio I/O Card . . . . . (4) **F** BNC<sup>††</sup>
- Each Digital Audio I/O Card (instead of BNC) (4) **F** XLR<sup>††</sup>

### Audio Output

AES/EBU digital audio with 48kHz sampling at 24-bit resolution, with 20-bit resolution for embedded audio. Four track audio for each video channel.

- Each Digital Audio I/O Card . . . . . (4) **F** BNC<sup>††</sup>
- Each Digital Audio I/O Card (instead of BNC) (4) **M** XLR<sup>††</sup>

Analog audio for monitoring, with 4 audio tracks per video channel. High quality oversampled 16-bit digital to analog converter.

- Each Digital Audio I/O Card (balanced) (8) **M** XLR

### Data/Control

RS422 Serial Control, capable of: Editor Slave, VTR Master or Abekas 6000 Control Panel communications

- (Sony, Louth, Odetics protocols) . . . . . (13) **F** 9-pin D

VGA Display, for diagnostics . . . . . (1) **F** 15-pin D

QWERTY Keyboard, for diagnostics . . . . . (1) **F** 6-pin PS/2

LTC Input, balanced (for time of day reference) . . . . . (1) **F** XLR

GPI: 16 Input triggers . . . . . (1) **F** 25-pin D

GPI: 12 Output triggers . . . . . (1) **F** 25-pin D

Ethernet 10/T and 100/T . . . . . (1) **F** RJ45

High-Speed Networking (Optional) . . . . . (2) **F** SC

Disk Expansion Chassis Control Interface . . . . . (1) **F** 9-pin D

Disk Expansion Chassis Ultra-2 LVD SCSI Interface (4) **F** 68-pin D

### Reference

Composite Analog Black Burst (NTSC/PAL)

- Includes VITC Reader for time of day reference (loop through) . . . . . (2) **F** BNC

### Physical & Electrical

- Power: Main Chassis . . . . . 100/120/220 vac  
50/60 hz / <1Kw
- Power: Control Panel . . . . . 24 vdc; 40 w
- Dimensions: Main Chassis (8RU) . . . . . inches: 14.0h / 17.0w / 24.5d  
(mm: 356h / 432w / 622d)
- Dimensions: Control Panel . . . . . inches: 2.7h / 17.0w / 4.7d  
(mm: 107h / 432w / 69d)
- Weight: Main Chassis . . . . . 175.0 lbs (79.4 kg)
- Weight: Main Chassis w/redundant PSU . . . . . 185.0 lbs (83.9 kg)
- Weight: Control Panel . . . . . 14.0 lbs (6.4 kg)

CSA NRTL/C approval. TUV, GS, BCIQ and CE Mark certifications.

### Standard Features

- Clip Media Storage – Capacity depends on system ordered.
- RAID-5 Parity, with Warm-Swap media disk drives
- MPEG-2 and DVCPRO compression, user selectable
- Two Serial Digital Video I/O (SDI) channels
- Two Composite Analog Video Outputs: per channel, for monitoring
- AES/EBU Digital Audio I/O: 24-bit at 48kHz, four tracks per video channel. 20-bit resolution for embedded digital audio.
- Analog Audio Output: four stereo pairs, for high-quality monitoring
- 525/625 Line Standards, user selectable
- (1) Abekas 6000 Hardware Control Panel
- (13) RS422 Communications ports: Sony, Louth, Odetics, and native Abekas 6000 CP protocols, with Slave control from external devices and Master control over external VTRs, with frame accurate editing
- Fast Ethernet: 10/T and 100/T for external control and file transfers
- List Play Application
- Time Delay Application
- Media Loading Application (Auto Edit)

### Optional Features

- Additional Serial Digital Video I/O (SDI) channels, maximum of eight total
- Disk Expansion Chassis: increase local video storage to several hundred hours
- Warm-Swap redundant Power Supply Module
- Redundant Mirror System Disk
- High-Speed server networking, transport control and file transfers
- Additional Hardware Control Panel: for stand-alone operation, machine setup, and VTR to Server editing. Up to eight per server
- VTR Archive Software: media clip backup and restore to standard external VTR

<sup>†</sup> The two Composite Analog Video outputs with menu overlay are accessible from BNC connections provided via 15-pin D high density breakout cable, supplied with system.

<sup>††</sup> The AES/EBU digital audio I/O in the Abekas 6000 is provided on four 26-pin high density cables and a single 2RU breakout panel. This breakout panel can be ordered with either XLR or BNC connection. Each breakout panel supports up to 32 tracks of digital audio I/O.

**F** = Female Connector

**M** = Male Connector

Specifications subject to change without prior notice.

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