

Panasonic®

AG-7750

Editing VCR



S VHS

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Editing VCR

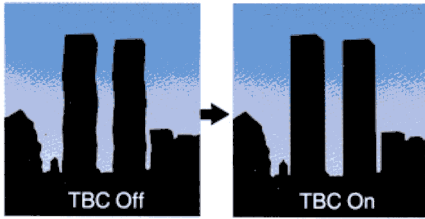
The Panasonic AG-7750 — Editing Precision and Digital TBC/DNR for Superb S-VHS Picture Quality

The AG-7750 S-VHS Editing VCR maximizes S-VHS picture quality with special amorphous video heads, built-in digital TBC/DNR, and 3 line "logical" comb filter. Its IQ Mechanism and AI capstan servo provide outstanding reliability and rapid response for quick access and editing accuracy. An RS-422 interface lets you connect easily to most serial control systems for a very broad range of applications. The AG-7750 professional editing VCR provides an exceptional combination of precision, versatility, and picture quality... plus interfacing compatibility and the reliability you've come to count on from Panasonic.



Technologies for High Quality Video Production

Built-in Digital TBC/DNR



Using an 8-bit memory circuit, the digital TBC within the AG-7750 eliminates even small amounts of jitter, skew, head impact error, and color blurring. Its precise time base correction is invaluable for A/B roll editing, as well as other professional editing operations, and helps maintain high picture quality through multiple tape generations. Using the 8-bit memory, field coefficient DNR (digital noise reduction) processes Y and C signals separately to boost S/N ratio, thereby reducing noise during playback.

Super-VHS and Amorphous Video Heads

To take full advantage of the high resolution and high S/N ratio of S-VHS, the AG-7750 features special amorphous video heads having higher magnetic coercivity than conventional ferrite heads. Improvement in

color reproduction is particularly noticeable. Expanded color signal frequency response from the amorphous heads enhances picture quality by minimizing color blurring.

Digital Decoder

Digital decoder in Y/C separation circuitry significantly improves signal separation accuracy during recording.

- The "logical" comb filter of the AG-7750, featuring an advanced 3-line delay line system, as opposed to a conventional 2-line system, enables a huge improvement in crosstalk cancellation during playback. The result is significantly higher picture quality, with reduced color and luminance blurring.

Precision Mechanism for Outstanding Performance

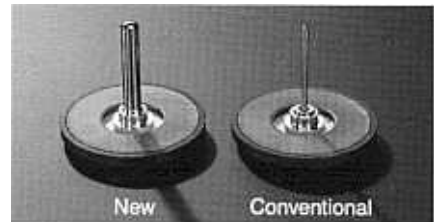
IQ (Intelligent Quest) Mechanism

The IQ mechanism of the AG-7750 delivers precise, high-speed operation, plus the reliability that a professional work situation demands. The dual-loading system, with half-loading and full-loading tape transport modes, achieves the ideal of high-speed response while protecting tapes and heads from damage. The advanced tape transport mechanism uses five direct drive motors,



including two reel drive motors, to attain high precision and response times that are significantly faster than those possible with a conventional system.

High Speed Search at 32 Times



The high performance of the IQ mechanism is further enhanced by advanced AI Capstan Servo Control. Featuring a capstan spindle approximately three times larger in diameter than conventional capstan spindles, the control system enables high-speed search at 32 times normal speed, more than three times the speed previously possible. At the same time, it minimizes



fluctuations in capstan rotational speed in order to suppress wow.

High Stability Tape Transport

The AG-7750 features a high-precision aluminum die-cast chassis and extra-large impedance roller, to assure exceptionally stable tape transport with very low jitter. The result is outstanding picture quality.

Advanced Editing Features

Field Freeze at Ready Off Mode

When editing, the Field Freeze function in the still mode uses internal memory to show a field freeze on screen while putting the VCR in the Ready Off condition. You can select among three kinds of Ready Off operation:

- (1) Drum rotates with tape loose;
- (2) Drum stops with tape loose;
- (3) Drum stops and tape is unloaded. This design contributes to improved, greater tape protection.

Jog/Shuttle Dial

During editing, Jog/Shuttle lets you quickly find exact edit points at the touch of a dial. Use Shuttle for 32 times normal high-speed search to find the scene you want; then use Jog to pinpoint the desired field accurately.

Plug-in Time Code Generator/Reader (Option)

Using the AG-7750 with the optional AG-F700 Time Code Generator/Reader lets you perform LTC/VITC recording and playback to enable high-precision time code editing.

- The AG-7750 permits accurate editing with VITC. In addition, two linear audio channels can be used.

Other Features

Serial Interface (RS-422A)

The AG-7750 comes equipped with an RS-422A 9-pin serial interface, the standard control system for professional broadcast components. This provides an easy way to expand your system via connection to MII and other serial control systems.

Reliable XLR Connectors

Reliable XLR connectors are used as the audio input and output jacks of the AG-7750. A 3-position input level selector is provided to help assure high quality sound during editing.

4-Channel Audio

For optimum audio performance, the AG-7750 features two hi-fi stereo audio channels with a dynamic range of 90 dB, as well as two linear audio channels with Dolby* NR. Each audio channel has its

own input and output with separate individual channel level setting capability.

* Dolby and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation.

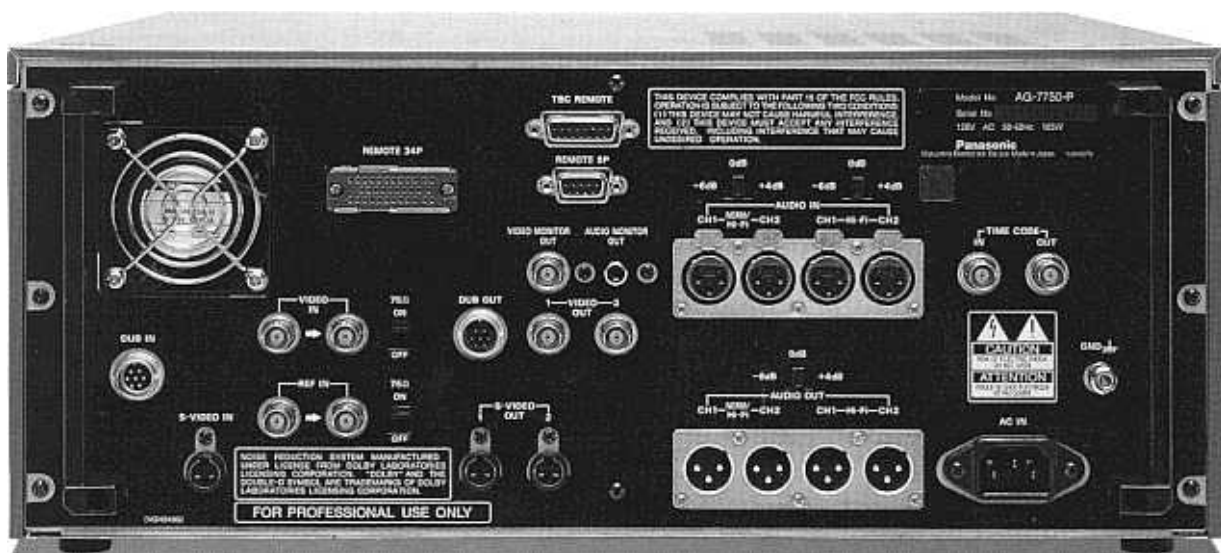
34-pin Interface Connector

In addition to the RS-422A 9-pin serial interface, the AG-7750 provides a 34-pin parallel connector, in order to maintain compatibility with many existing 34-pin parallel controllers. This feature permits connection to an editing controller in an existing S-VHS editing system, and also enables dubbing system control with the AG-7550 as the source deck.

- Professional 7-pin dub capability
- Manual adjustment of video recording level
- System setup and mode display with Superimpose
- Remote Local switch
- TBC remote
- 19" Rack-Mountable

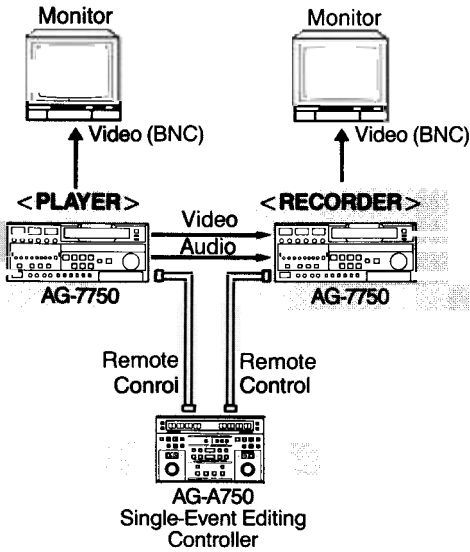
Standard Accessories

- S-video cable (4P), 1.5 m
- TBC protection cover

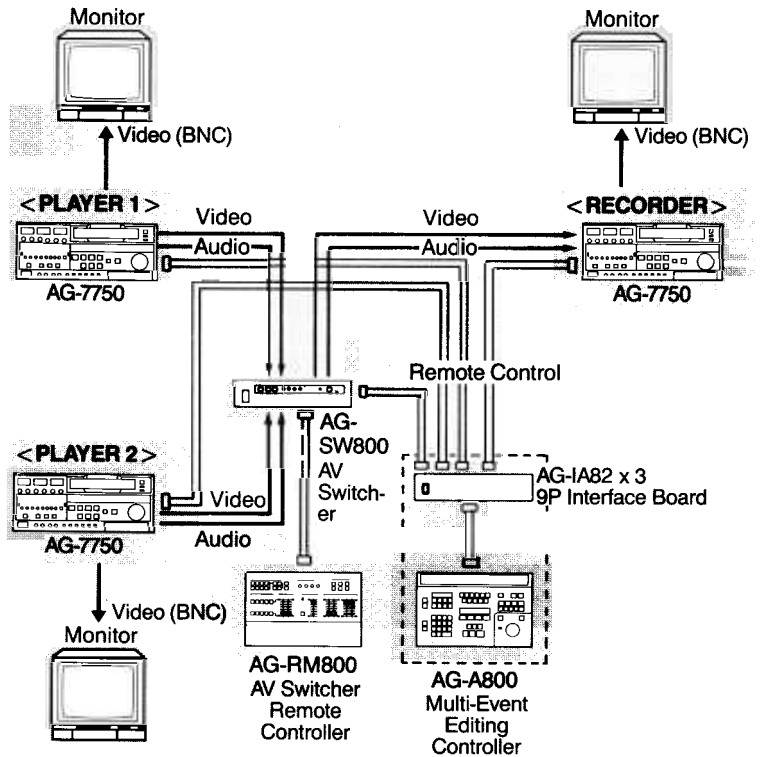


System Applications

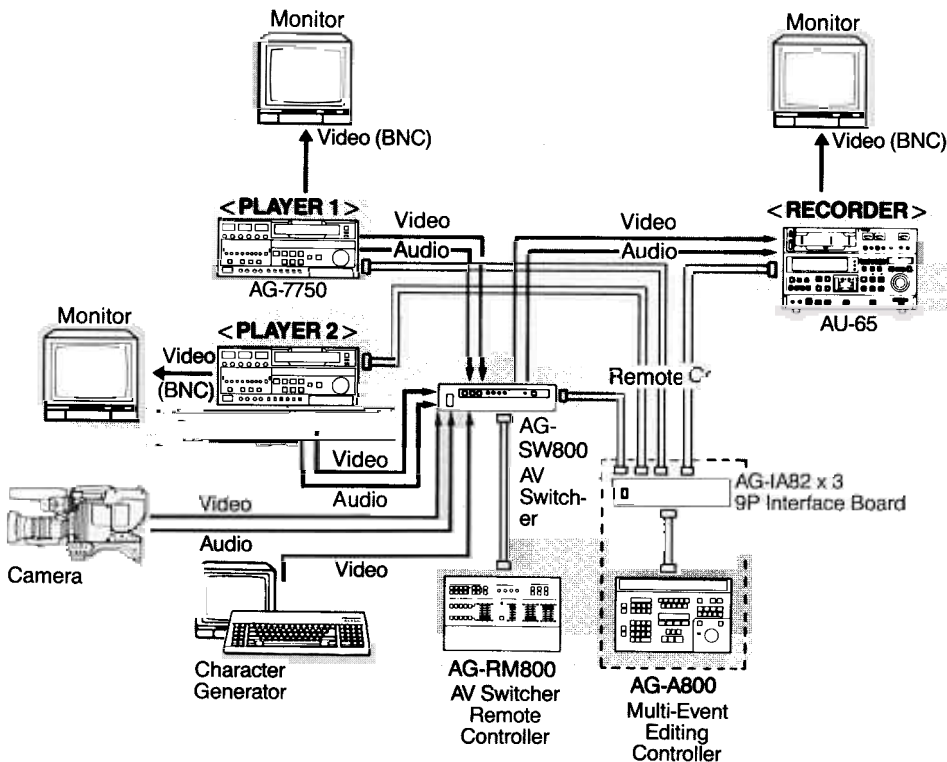
Basic Editing System



A/B Roll Editing System



Interformat (S-VHS/Hi8) Production System



AG-65:
MII Studio VCR

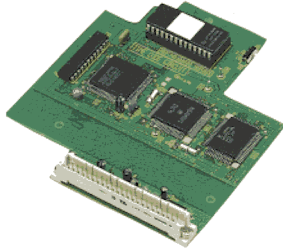


- AG-7450:**
S-VHS Dockable VCR
- Compact and lightweight for outstanding portability
 - S-VHS and amorphous video heads
 - 4-channel audio
- WV-F250:**
3-CCD Color Video Camera
- 1/2-inch FIT CCD for smearless image reproduction
 - High horizontal resolution of 700 lines
 - Y/C separate output

Optional Accessories

AG-F700: Time Code Generator/Reader

- SMPTE format compatible
- Generator and reader for LTC and VITC
- Input VITC signal slice circuit On/Off switching
- CH2 AUDIO/LTC selector, VITC On/Off selector, REGEN/PRESET selector and time code INT/EXT selector



AG-A800: Multi-Event Editing Controller



AG-SW800: AV Switcher

AG-RM800: AV Switcher Remote Controller



AG-A750: Single-Event Editing Controller

AU-ER65B: Encoder Remote Controller



AG-M750: Rack-mount Adaptor



AG-C71: S-Video Cable (5 m)



AG-C65: Dubbing Cable (7P)

AG-C70: S-Video Cable (3 m)

Specifications

■ GENERAL

Power Source: 120 V AC, 50/60 Hz
Power Consumption: 105 W
Operating Temperature: +41°F to +95°F (+5°C to +35°C)
Operating Humidity: 35% — 80%
Weight: Approx. 37.4 lbs. (17 kg)
Dimensions (W x H x D): 17" x 7" x 18 1/8" (430 x 176 x 460 mm)

■ SYSTEM

Television Format: EIA Standard, NTSC Color Signal (525 lines, 60 fields)
Video Recording System: Two rotary heads, helical scanning system
Modulation System: Luminance: FM azimuth recording
 Color signal: Converted subcarrier phase shift recording
Audio Track: 2 tracks (Hi-Fi Audio)
 2 tracks (Normal)

■ TAPE TRANSPORT

Tape Format: S-VHS/VHS tape
Tape Speed: 1 5/16 ips (33.35 mm/s)
Recording Time: 120 min. (2 hrs.) with NVT120
FF/REW Time: Less than 2 min. with NV-T120

■ VIDEO

Input Level: S-Video In (4P): Y: 1.0 Vp-p, 75 ohms, unbalanced
 C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
 Line In (BNC x 2): 1.0 Vp-p, 75 ohms, unbalanced
 Dub In (7P): Y: 1.0 Vp-p, 1 kohm, unbalanced
 C: 0.9 Vp-p, 1 kohm, unbalanced (Cyan)
 REF Video In (BNC x 2): Loop-through with 75 ohm On/Off switch, 1.0 Vp-p, unbalanced
Output Level: S-Video Out (4P): Y: 1.0 Vp-p, 75 ohms, unbalanced
 C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
 Line Out (BNC x 2): 1.0 Vp-p, 75 ohms unbalanced
 Dub Out (7P): Y: 1.0 Vp-p, 1 kohm, unbalanced
 C: 0.9 Vp-p, 1 kohm, unbalanced (Cyan)
Horizontal Resolution: Video Monitor Out (BNC): 1.0 Vp-p, unbalanced
 S-VHS: more than 400 lines (monochrome/color)
 VHS: 300 lines (monochrome), 240 lines (color)

Signal-to-Noise Ratio (VHS):

46 dB (color)

■ AUDIO

Audio Frequency Response: 20 Hz — 20 kHz (Hi-Fi Audio); 50 Hz — 12 kHz (Normal)
Signal-to-Noise Ratio: 48 dB (Dolby* NR On; Normal)
Dynamic Range: 90 dB (Hi-Fi Audio)
Input Level: Line In (XLR 3P): +4/0/-6 dBs, 600 ohms, unbalanced
 Mic: 60 dBv, 4.7 kohms, unbalanced
Output Level: Line Out (XLR 3P): +4/0/-6 dBs, 50 ohms, unbalanced
 Audio Monitor (RCA Phono): 0 dBv, 600 ohms, unbalanced
 Headphone Jack: -60dBv — -20dBv, 8 ohms, unbalanced

■ TIME CODE

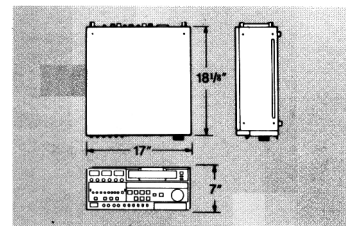
Time Code Input (BNC): 1.0 Vp-p, 10 kohms, unbalanced
Time Code Output (BNC): 2.4 Vp-p, low impedance unbalanced

(Specifications are measured using standard studio VCR for playback.)

Weight and dimensions shown are approximate. Specifications subject to change without notice. This product may be subject to export control regulations.

Warning:

Unauthorized recording of copyrighted television programs, films, videotapes and other materials may infringe upon the rights of copyright owners and be contrary to copyright laws.



Panasonic

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