The AG-7150, specifically designed for professional quality video playback, offers the same high performance and advanced playback functions as the AG-7350. Whether used in a system or by itself, this convenient, easy-to-use player delivers ideal performance and quality for an exceptionally wide range of applications.
The Panasonic AG-7350 high-performance VCR provides SVHS recording and playback for a wide range of applications. Designed for durability, the AG-7350 delivers outstanding picture and sound quality, as well as a number of advanced functions for user convenience.

Technology Crafted to Deliver Superb Video and Audio Quality

**SVHS Plus 58-Micron Wide Laminated Amorphous Video Heads**
The key to the outstanding picture quality of the AG-7350 is its extra-wide 58 μm laminated amorphous video heads for SP (2-hour) mode recording/playback. These advanced heads take optimum advantage of the high resolution and high S/N ratio provided by the SVHS tape format. The result is superb image quality with exceptionally pure color reproduction, which makes the AG-7350 an ideal recorder for so many business and professional applications.

**Exceptional Color Reproduction**
The technological innovations* featured in the AG-7350 — such as CAC (Chroma Aperture Compensation) and an Advanced Comb Filter — provide a dramatic improvement in color quality, virtually eliminating color shift and vertical smear.

* Matsushita Electric Industrial Co., Ltd., the parent company of Panasonic, supports one of the most extensive research and development facilities in the world.

**Digital Circuitry for Y/C Separation**
With a digital filter included in the circuitry, the AG-7350 achieves exceptionally accurate Y/C separation. The advantage of digital processing is that it delivers high precision and high stability while providing outstanding resistance to temperature changes, and changes due to time.

- 6-Hour Playback Capability (Only with Normal/Linear Audio)

**4-Channel Audio: 2 Hi-Fi Channels and 2 Linear Channels**
With the AG-7350, it’s possible to use the two Hi-Fi channels and the two linear channels independently. This means you can add narration or music background, for instance, to enhance final production. Hi-fi dynamic range of 90 dB assures extremely high sound quality.

- Wide 42 μm Head for SP (2-hour) Hi-Fi Audio Mode
- Dolby* NR for Linear Audio

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

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**Designed to Provide the Durability That Professional Applications Demand**

**IQ (Intelligent Quest) Mechanism**
The IQ (Intelligent Quest) mechanism of the AG-7350 contributes to durability and simple maintenance. The brushless DD motors provide stable tape transport, and tape-to-head contact has been improved over previous Panasonic models with the use of the Tapered Twin Projection Cylinder. In addition, the IQ mechanism supports high picture quality with auto head cleaning and other features.

**11-bit Digital Servo**
Smooth, stable tape transport is a major factor in determining final picture quality. The AG-7350 is equipped with an 11-bit digital servo that controls tape transport precisely to maintain optimum image quality by minimizing jitter.

**Motherboard Construction**
For easier maintenance and improved reliability over traditional designs, the audio and video circuits are mounted on separate boards that plug into the motherboard.

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**Layout of Interior Switch Panel**

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**SVHS Hi-Fi Video Cassette Recorder**

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**SVHS Hi-Fi Video Cassette Recorder**

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System Expandability for Versatile Applications

Remote Control Capability: 34-Pin Parallel/Optional RS-232C Serial Interface Capability
The AG-7350 provides a conventional 34-pin remote terminal, which may be replaced by an optional RS-232C serial interface board (availability expected late 1991), to enable connection to a personal computer. This will allow the operator to control the VCR using the PC.

Sensor Recording
Sensor recording is one more convenient feature of the AG-7350. When a video or serial signal is detected, the VCR automatically starts recording. When the signal ends, recording automatically stops. With sensor recording using a serial signal, the recorded segment can be played back in the Auto Repeat mode.

19" Rack-Mountable
The slim design of the AG-7350 occupies only 3 rack units in a standard 19" EIA equipment rack, with optional AG-M730 rack-mount adaptors.

Convenient Operations and Other Features

Jog/Shuttle
Searching for a precise location on a tape is handled simply and quickly with the jog/shuttle dial. The shuttle function enables searching in forward and reverse in 17 steps between 1/25 and 11X normal speed. Then for precise location, the jog function lets you search in forward and reverse at speeds ranging from one field at a time to normal speed. You can also enjoy Double Fine Slow playback of the entire field.

Full-Loading Mechanism
With the full-loading mechanism of the AG-7350, the tape always remains wound around the cylinder. This enables smooth operation, with the convenience of superquick response. Images appear on the screen within one second after the Play button is pressed. The simple, speedy operation provided by this advanced mechanism makes the AG-7350 ideal for use at CATV broadcast facilities.

Soft-Pause
After pausing for 5 minutes, the AG-7350 automatically switches to the soft-pause mode. In this mode, the drum rotates with the tape loose, to protect the tape and let you quickly re-start recording or playback. In another 5 minutes, the drum stops.

Auto Repeat Play/Counter Memory Functions
Using the Linear Tape Counter, you can select any segment on a tape (including the full tape) for Auto Repeat Play, with a choice of Continuous Repeat or One-Time Repeat. For added convenience, the counter automatically resets when a tape is ejected. And the counter features memory back-up for 72 hours.

Optional Time Code Recording/Playback
A time code generator/recorder, enabling recording and playback of time code on linear audio CH2, is built into the optional RS-232C interface board.

- External Sync In Terminal
Standard Accessory  Optional Accessories

34-Pin Interface Adaptor
S-Video Cable (4 Pin)

S-Video Cable, AG-C71A (5m), AG-C70A (3m)
Remote Controller, AG-A600

Rack Mount Adaptor, AG-M730
RS-232C Serial Interface Board
(Availability expected late 1991.)

System Example

Remote Operation Control

Personal Computer

AG-A600

Remote Controller

AG7350
AG7150

Sensor Recording
(AG-7350)

Serial Transmitter

Serial Signal

AV Source

Video

Audio

34-pin IF Board
(Standard)
or
RS-232C IF Board
(Optional)

Sensor Remote In

Audio In/Video In

Monitor

Video

Audio
Specifications

AG-7350/AG-7150

**GENERAL**
- Power Source: 120 V AC ±10%, 50/60 Hz
- Power Consumption: AG-7350: 48 W, AG-7150: 45 W
- Operating Temperature: +41°F to +104°F (+5°C to +40°C)
- Operating Humidity: 30% — 80%
- Weight: AG-7350: Approx. 243 lbs (110 kg), AG-7150: Approx. 238 lbs (108 kg)
- Dimensions (W x H x D): 1611/16" x 513/16" x 1611/16" (424 x 131.5 x 424 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
- Audio Track: Color signal; Converted subcarrier phase shift recording
- Audio Track: 2 tracks (Hi-Fi Audio)
- Audio Track: 2 tracks (Normal)

**TAPE TRANSPORT**
- Tape Format: S/VHS/V-S tape
- Tape Speed: SP: 1.6 x ips (33.35 mm/s)
- SLP (Playback only): 1.6 x ips (11.12 mm/s)
- Recording Time: 120 min. (2 hrs) with NV-T20
- FF/REW Time: Approx. 3 min. with NV-T20

**VIDEO**
- Input Level:
  - S/Video In (4P): Y: 1.0 Vp-p, 75 ohms, unbalanced 0.0286 Vp-p, 75 ohms, unbalanced (Burst)
  - Line In (BNC): 1.0 Vp-p, 75 ohms, unbalanced
  - Ext. Sync In (BNC): 4.0 Vp-p, negative pulse, 75 ohms, unbalanced
- Output Level:
  - S/Video Out (4P): Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.0286 Vp-p, 75 ohms, unbalanced
  - Line Out (BNC x 2): 1.0 Vp-p, 75 ohms unbalanced
- Horizontal Resolution: SVHS: More than 400 lines (monochrome/color)
- Video: 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/Hi-Fi (Phono x 2): — 6 dBV, 47 kohms, unbalanced
  - Line In/Normal (Phono x 2): — 8 dBV, 47 kohms, unbalanced
  - Mic: — 60 dBV, 47 kohms, unbalanced
- Output Level:
  - Line Out/Hi-Fi (Phono x 2): — 8 dBV, 600 ohms, unbalanced
  - Line Out/Normal (Phono x 2): — 8 dBV, 600 ohms, unbalanced
  - Audio Monitor (Phono): 0 dBV, 600 ohms, unbalanced
  - Headphone Jack: — 40 dBV, 8 ohms, unbalanced
  - Headphone: 40 dBV, 8 ohms, unbalanced

**TIME CODE**
- Time Code Input (Phono): 1.0 Vp-p, 10 kohms, unbalanced
- Time Code Output (Phono): 2.4 Vp-p, low impedance unbalanced

(Specifications for AG-7150 are measured using standard studio VCR for playback.)

Weights and dimensions shown are approximate. Specifications subject to change without notice.

**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. This product may be subject to export control regulations.

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