

The Super Intelligent-HQ (Super I-HQ) feature

Introduction

AKAI was the first company in the world to develop and provide on a VCR the unique "Intelligent-HQ" feature which achieves high picture quality for both recording and playback. The new "Super Intelligent-HQ" technology which AKAI has now developed includes the features of the previous "Intelligent-HQ" (I-HQ) but achieves even higher picture quality.

The advantages of Super Intelligent-HQ

The main advantages of the high picture quality achieved with "Super Intelligent-HQ" are as follows:

First, a newly developed circuit achieves cleaner, clearer pictures with less noise.

Second, together with the newly developed "PRO GX4 Head", LP (Long Play) picture quality is greatly increased, so that the high picture quality is almost as good as that of Akai's SP (Standard Play) picture quality, an area in which Akai has a well-established reputation.

Furthermore, the new head and the new Super I-HQ technology assure optimum recording regardless of the characteristics of individual tapes and head wear or other changes over time, thus maintaining the same high picture quality over the years.

I-HQ

This technology for achieving high picture quality in both recording and playback, centering on an auto tape tuning system, brings out the best in the superior qualities of high-grade and S-VHS tapes, providing excellent picture quality.

Newly developed circuit

The newly developed circuit for the "Super Intelligent-HQ" feature achieves high picture quality with less noise.

PRO GX4 head

The gap-depth and track width of the LP head have been optimized and the high range response for recording and playback improved, thereby reducing edge noise and crosstalk and providing high picture quality in the LP mode.

How Super I-HQ works

During recording:

When you press the record button and the I-HQ button the Auto Tape Tuning process begins. This takes about 15 seconds.

This operation optimizes the tapes full potential, and the tapes characteristics are stored in the microprocessor's memory until the tape is ejected, or the power supply is cut off from the VCR.

During playback:

When you play back a tape using the Super I-HQ feature, it automatically adjusts to the recorded condition of the tape and optimizes noise cancellation and the reproduction of details.

New Chroma Process

This function eliminates displacement of colours in the vertical direction (called "vertical aberration") during playback, an unavoidable problem with conventional VHS VCRs for home use.

This displacement increases with each copy, resulting in an unnatural picture. When copying from VCRs including this function, however, there is no displacement in the vertical direction of these colour signals, no matter how many copies are made.

AKAI is the first company in the world to provide this technology for home VHS VCRs.

Note:

- This VCR is perfectly compatible with I-HQ and non Super I-HQ VCRs.
- Please take care when choosing your tapes as not all tapes labeled "High Grade" are really high grade tapes. If you are in doubt use "S-VHS" or "PRO" tapes. Also, as even tapes made by the same company differ in characteristics (between E-180 and E-240 for example) we recommend the use of E-180 tapes for the very best results.
- If a tape is damaged, or faulty, the Auto Tape Tuning process may take a little longer, as it will "read" the characteristics once more.
- A tape recorded by S-VHS format (on an S-VHS VCR) can not be played back on an I-HQ VCR and vice versa, these systems are not interchangeable.
- Although you can choose to have the Super I-HQ feature on or off, we recommend that it always be left on during playback and recording.