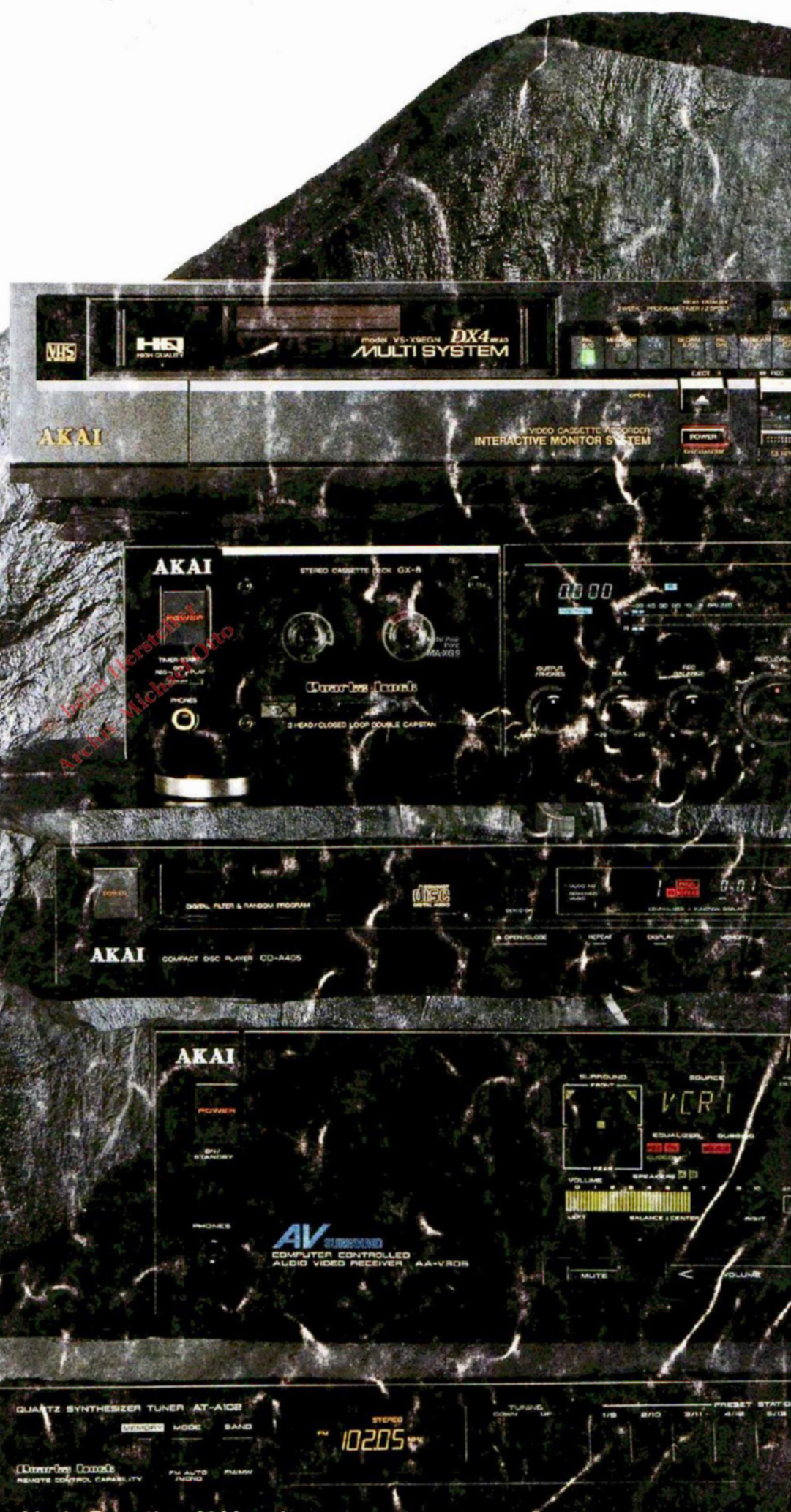


# AKAI

## Hi-Fi

- STEREO CASSETTE DECK
- COMPACT DISC PLAYER
- STEREO INTEGRATED AMPLIFIER
- STEREO A/V SURROUND RECEIVER
- QUARTZ SYNTHESIZER TUNER
- STEREO TURNTABLE
- STEREO GRAPHIC EQUALIZER
- SURROUND PROCESSOR
- SOUND PRESENCE CONTROLLER
- REMOTE CONTROL CENTER
- MIDI COMPONENTS
- PRO SERIES
- SPEAKER SYSTEM
- STEREO RADIO CASSETTE RECORDER
- STEREO REVERSE CASSETTE RECEIVER
- STEREO REVERSE HEADPHONE PLAYER



## Video

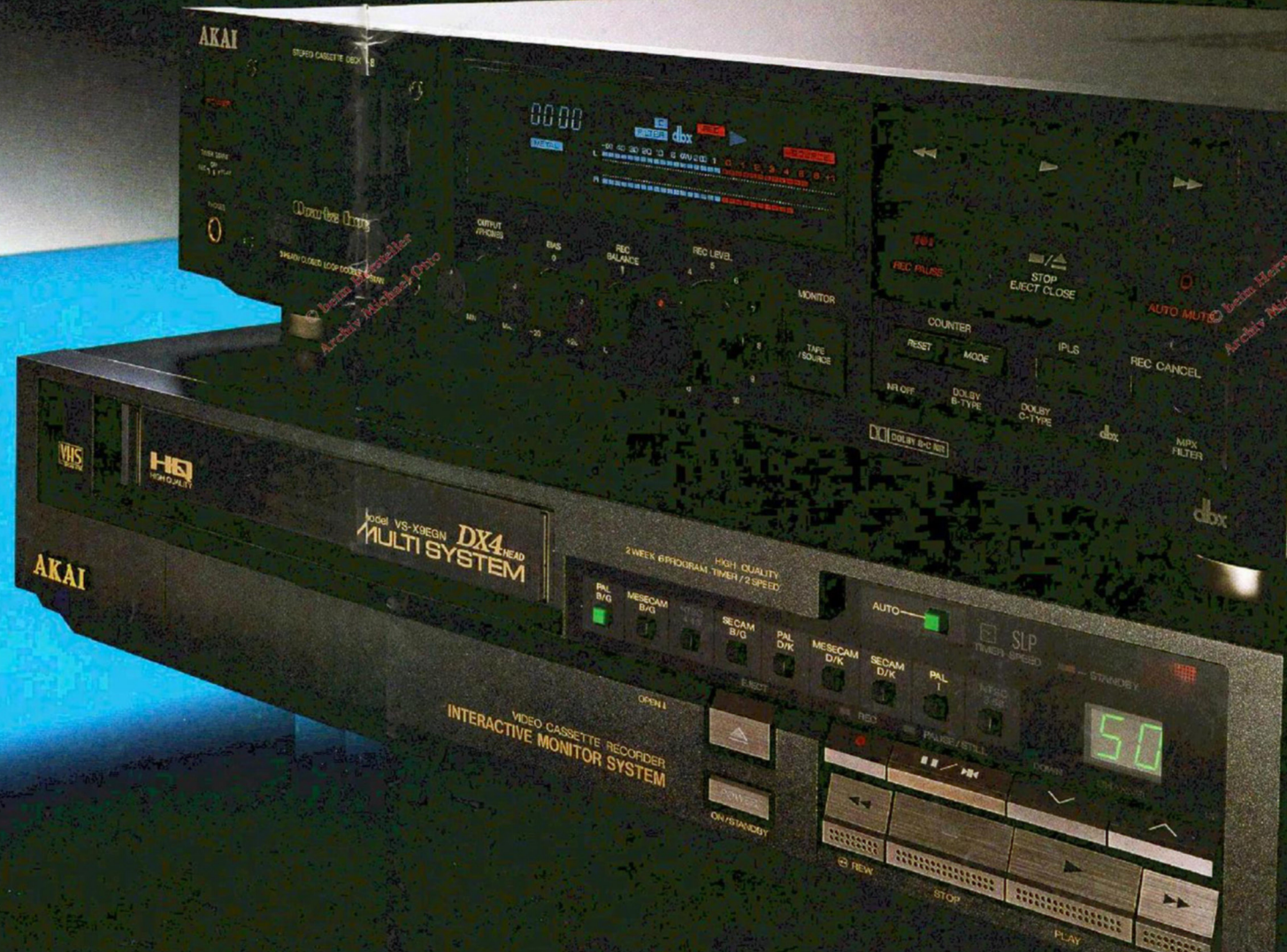
- VIDEO CASSETTE RECORDER
- VIDEO CASSETTE PLAYER
- VIDEO MOVIE

# '87

Akai-Creative At Heart.

*Exciting new products to delight  
the hearts of all lovers of  
high quality audio and video equipment.  
From Akai — Creative at Heart*

*Akai. For half a century this name has meant the finest in audio products. For the past twenty five years, it's also meant the most innovative video products. Standing behind these unique achievements over the years are our engineers, the people who take revolutionary ideas and give them life, guided all the while by the spirit embodied in our corporate identity, "Akai — Creative at Heart". Now we look to the future, where we intend to continue our pioneering work in the fields of audio and video helping create a true A/V era.*



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A-200 Akaihead USA*

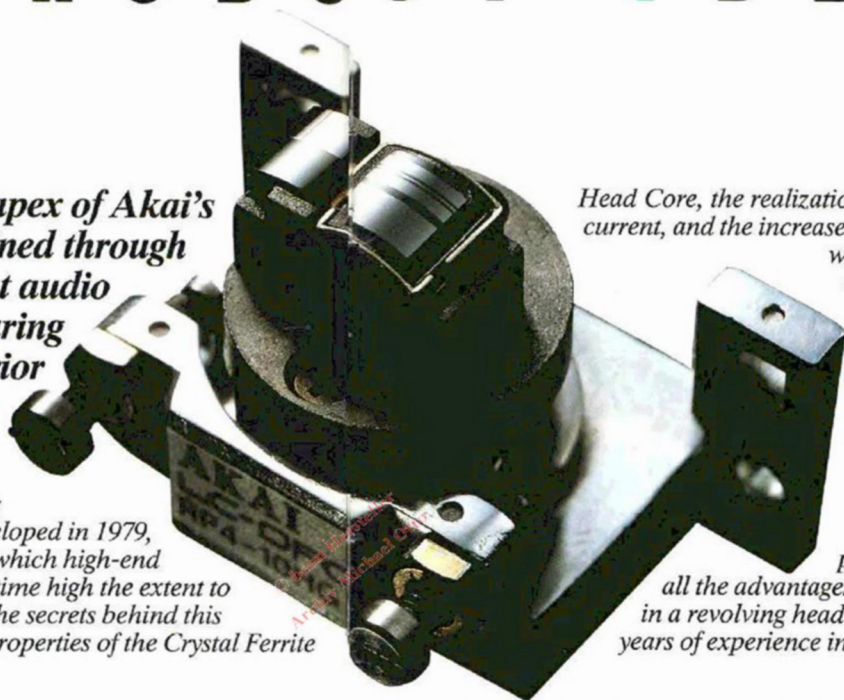
*James H. Hester  
Archibald & Co.*

*James H. Hester  
Archibald & Co.*

# AUDIO PRODUCT IDENTITY

*The Twin Field Super GX head is the apex of Akai's audio recording technology — technology refined through many years of manufacturing the finest audio products. All of Akai's micro-precise manufacturing technology was employed to realize the superior recording and playback characteristics of this unique, innovative design.*

*The Super GX Head is a milestone in Akai's continuing development of superior audio cassette decks. First developed in 1979, the Super GX Head has changed the standards against which high-end cassette decks are measured, and has brought to an all-time high the extent to which cassette tape can be used as an audio medium. The secrets behind this outstanding performance are the superlative magnetic properties of the Crystal Ferrite*



*Head Core, the realization of the ideal in focusing the recording bias current, and the increased durability of the Crystal Ferrite Head Core which is itself constructed of wear-resistant material and is further protected by a wear-resistant glass support system. Another refinement, in accordance with the Super GX Head design concept of improved performance, is the double head gap with separate gaps for recording and playback. Just as a 3-head design features separate heads for erasure, recording and playback. Akai's unique Twin Field Head design features separate gaps for recording and playback on a single head core. In this way, all the advantages of a 3-head configuration are incorporated in a revolving head design which also benefits from Akai's long years of experience in micro-precise manufacturing techniques.*

Archiv Hersteller  
beim Michael Otto

Archiv Hersteller  
beim Michael Otto



#### Akai and the history of audio

Akai first entered the audio field through phonograph motors. Production began in 1947, and the

accumulated technological expertise allowed production in 1951 of the C5 phono motor, with standards that were completely unheard of at that time. In 1954, Akai introduced Japan's first tape recorder kit, the AT-1, which featured a high class motor, reliable transport mechanism, high performance head and high level circuitry. These four main components, the heart of a tape deck, won instant acclaim the moment the AT-1 went on sale. 1956 saw the introduction of the model 900, Japan's first stand-up

style, high quality tape deck. The development in 1961 of the M-7 with its innovative Cross Field Head made the name Akai synonymous with high quality tape decks in the mind of consumers everywhere. The M-8, the successor to the M-7, was another enormous success worldwide, selling more than one million units. At this time, Akai's design creativity also gave birth to the X-1800 and the X-2000SD, the world's first open reel cartridge players. In 1969, the epoch-making GX head, a spinoff of research into video head technology, was developed. This remarkable head not only boasted superlative recording and playback properties, it also set new standards in wear-resistance and durability. Akai's auto-reverse record/playback cassette deck, the CS-50D, was introduced to

the market in 1970. And in 1979, ahead of the rest of the world, we introduced the Quick Reverse Mechanism that cut auto reverse time dramatically, with the GXC-735D and the CS-732D, Akai's name became known, first in Japan and then around the entire world, as the innovator of the Quick Reverse system. The path of technical development led in 1979 to the introduction of the revolutionary Twin Field Super GX Head, with its combination of specialized recording and playback gaps in a single head core. And in 1983, in response to the remarkable improvement in tape properties, Akai developed the CRLP (Computerized Recording Level Processing) system. This system puts a microprocessor in control of automatically determining optimum recording bias, thus

raising further the limits of tape performance. The CRLP system was incorporated in our top-of-the-line deck, the GX-R99. Today, in response to the challenge posed by digital audio sources such as CDs, we are continuing to develop higher performance 3-head decks such as the GX-8 and the GX-6, decks which are capable of successfully recording from demanding digital sources.



The improvement of recording and playback quality continues to be our watchword today, as it has always been.



#### Super GX Head with LC-OFC

This super GX head is constructed with independent gaps for recording and playback which provide ideal recording and playback characteristics.



#### Quick Reverse

Akai's highly reliable quick reverse system consists of a BSP mechanism for uniform tape travel and an accurate reverse head system for equal recording and playback characteristics in both directions.



#### Quick and Quiet Mechanism

Tape movement is swift and silent even during mode shifts because this mechanism employs microcomputer control to move the cam to the preset angle for each mode.



#### CRLP (Computer Recording Level Processing) System

The CRLP system uses a microprocessor to bring out the maximum performance possible from the tape.



#### 3D Speaker System

The 3D speaker system uses a passive radiator at the rear of the speaker to mix the sound reverberating off the wall with the direct sound from the front to achieve real live sound.



# Meeting the challenge of digital sources

## GX-8/GX-6

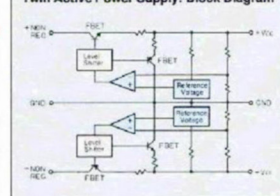
3-Head Stereo Cassette Deck

The digital revolution has made better quality analog equipment a must. CD music with its high dynamic bass output poses a special recording challenge to tape decks. Akai has met this challenge with the GX-8 and GX-6.

### Improvements in the power source

The power source for the amp, and noise reduction, is now independent of the main circuitry, resulting in full amp reinforcement – vital for reproducing powerful bass. Twin active power sources provide ideal power supply stability.

### Twin Active Power Supply: Block Diagram



### Improved amplifier circuitry

Dynamic range and resolution in high frequencies have been substantially increased as well by the installation of pure DC amplifier circuitry. Transmission distortion in the musical signal path is almost nonexistent due to the use of Linear Crystal Oxygen-Free Copper. No feedback, push-pull current drive circuitry is employed in the recording amp, diminishing phase distortion stemming from voltage-



GX-8

impedance conversion due to related resistance. Low-noise high speed dual FET input amp employed in the playback equalizer amp yields a high slow rate and low distortion.

### Closed loop double capstan system by direct drive

In order to maintain ideal tape tension and optimum head-to-tape contact, both decks employ a closed loop double capstan tape transport. The GX-8 features a quartz lock servo circuit for even greater rotational stability. This system provides excellent performance with modulation noise from 0–20 kHz, improved by as much as 5 dB over single capstan models.

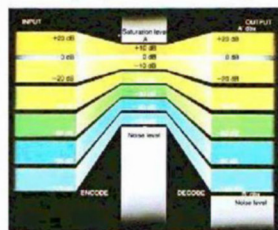
### Super GX 3-head system using Linear Crystal Oxygen-Free Copper

Super GX heads provide excellent

performance that fully exploits the advantages of the 3-head setup. Linear Crystal Oxygen-Free Copper used in wiring reduces signal transmission distortion and provides better electrical linearity.

### Sound Quality Assured by dbx

Originally developed for the recording industry, dbx has long been favored by professional recording engineers for its ability to



not only reduce tape noise, but also increase the headroom and the effective dynamic range of the recording tape without overloading it and causing unwanted distortion. During recording, dbx compresses the dynamic range of the signal, letting louder passages be recorded without overload distortion. Playback/expansion releases the full dynamic

range of the original signal source while simultaneously suppressing tape noise; pushing it down, well below audible limits. With such an expanded dynamic range, even powerfully dynamic digital sources can be successfully recorded and reproduced to deliver their full sound potential.

### Other convenient features

Bias control, anti-resonance construction, dbx (GX-8 only) and double process Dolby B/C NR system, Auto Monitor system, Quick and Quiet mechanism, 3-way, 4-digit electronic counter, 17-segment, 2-color peak meter, and computer search functions achieve a sensitive, upgraded operation.

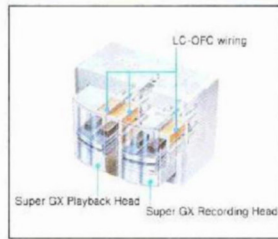


GX-6

### Super GX Head with LC-OF-C

A 3-head system is definitely the choice of those desiring the very finest reproduction, available from a home stereo component system. It has completely separated gaps—one exclusively for recording and another exclusively for playback. And Akai was able to optimize the design for truly excellent performance. A four micron recording gap-width and a one micron playback gap-width optimize magnetic field-strength during recording, assuring broad frequency response characteristics during playback with virtually no azimuth

loss. The Twin Field Super GX Head also has separated gaps for recording and playback. Therefore the performance is almost equal to a 3-head system except for monitoring of the just-recorded signal. Linear Crystal Oxygen-Free Copper used in wiring reduces signal transmission distortion and provides better electrical linearity. This gives better recording purity, extended frequency response and wider dynamic range for rich resonance; the feeling of live sound.

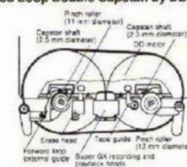


### Closed Loop Double Capstan System by Direct Drive

In this sophisticated system, two pairs of capstans and pinch rollers isolate the tape near the heads. This stabilizes tape tension and speed at the point of head contact, regardless of irregularities in the reels. A direct drive system uses an FG servo motor to turn the capstan to maintain stable tape tension at all times. The GX-8 features a quartz lock servo circuit for even greater rotational stability. The capstans are processed with Akai's Inverse Current Hard Chrome finish for

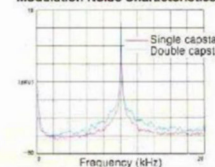
extra durability and running precision. The result of all these improvements is optimum head contact, highly accurate

### Closed Loop Double Capstan by DD System



tape transport, and a minimum of modulation noise that can cause distortion.

### Modulation Noise Characteristics



# Crystal-clear, super dynamic Hi-Fi sound Quick Reverse



GX-R70EX

## GX-R70EX/ GX-R60EX

### Quick Reverse Cassette Deck

Akai presents the GX-R70EX and GX-R60EX with features and performance that truly deserve the description 'ready for digital'. The Twin Field Super GX head with

Linear Crystal Oxygen-Free Copper coils offers outstandingly flat frequency response. The LC-OFC coils extend bass response to bring out the rich tones made possible by digital sound sources.

High precision, Quick Reverse system gives you hours of uninterrupted playback and extended recording convenience, allowing you to take

advantage of the longer program times available from digital sources. A dbx noise reduction system increases headroom, allowing the full dynamic range of digitally recorded music to come through. Both Dolby B/C NR systems have also been included.

CRLP (GX-R70EX only) sets super-accurate recording levels at the touch of a button. Other outstanding features include: high-speed DC amplifier for superb recording linearity, 2-speed auto fader, real-time tape counter, IPLS, anti-resonant rubber feet, direct lead-in and power eject.



GX-R60EX

## GX-R60

### Quick Reverse Cassette Deck

Twin Field Super GX head with OFC coils. Quick reverse function dbx and Dolby B/C NR systems. Low noise high-speed DC amplifier. Direct lead-in and power eject. IPLS. Auto tape selector.



GX-R70



GX-R60

## HX-R40

### Quick Reverse Cassette Deck

High-precision Quick Reverse tape transport. Dolby B/C NR system. Intro scan and IPLS. 3-position tape selector. Timer start switch.



HX-R40

### Quick Reverse - BSP Mechanism

To ensure stable tape transport in either direction, Akai uses the BSP (Bi-directional Symmetrical Precision) mechanism. This mechanism is designed to provide a perfectly symmetrical tape path in either direction, and it compensates for variation in cassette shells and tape dimensions by using the Dual Wide Tape Guide system. In this system, separate tape guides are

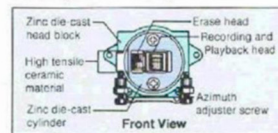


BSP Mechanism

positioned on either side of the record/playback head to prevent uneven tape-to-head contact and resulting tape curling and wear. Dropouts and level fluctuations are dramatically reduced for superb sound in either direction.

### Quick Reverse - Accurate Reverse Head System

Akai's Quick Reverse system obstructs the tendency toward misalignment in

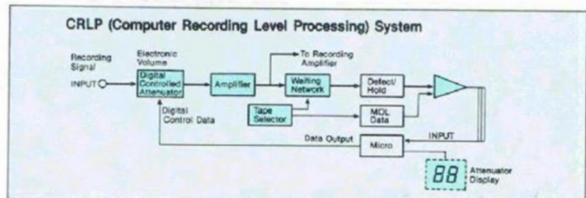


conventional head designs. That's why Akai insists on extra strong head construction materials. The head housing for example is made of beryllium-alloyed die-cast zinc, so tough that head rotation shocks leave no mark. Instead of fluid lubricants, solid Teflon is employed together with a special temperature resistant polyamide resin, achieving a service life of 2 million rotation cycles. Diamond-class extra hard fine ceramic head stoppers 'cushion' the head with impact resistance rated at 22,000 kg/cm<sup>2</sup>. Tempered stainless steel azimuth screws maintain exactly the correct head gap-to-tape angle in both directions. Last but not least, the wires from the circuitry to the rotary head are incorporated into a flexible printed circuit board that doesn't wear out like ordinary head connections.

### CRLP (Computer Recording Level Processing) System

The GX-R70EX/R70 feature Akai's unique CRLP for the easiest, most accurate setting of recording levels. Using the power of a microprocessor, the CRLP system electronically sets the correct recording level in seconds, at the touch of a button. First, CRLP determines the MML (Maximum Modulation Level) and SOL (Saturation Output Level) of the tape in use and then ascertains the overload level and MOL (Maximum Output Level) characteristics. Next the tape's MOL is compared with the input signal level which is attenuated in 1 dB steps until the

optimum level is reached. Then an electronic variable resistor is set to this optimum record level, which is clearly shown on the FL display for reference. This level can also be overridden using the manual record level controls.



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## Twin-cassette high-speed dubbing with high quality



### HX-A201

#### Stereo Cassette Deck

HX-A201 has been given a bold new design, with slim dimensions. Outstanding features are Dolby B/C

NR system, HD head, One-touch recording, LED peak level meter and soft-touch controls.



### HX-A101/M

#### Stereo Cassette Deck

The HX-A101M is a Dolby B NR deck with many of the same outstanding features of the HX-A201. The HX-

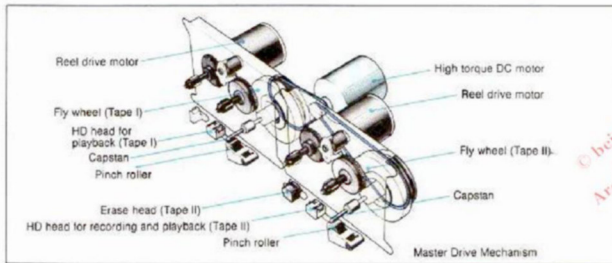
A101 features Normal/CrO<sub>2</sub> tape capability in a design similar to the HX-A101M.



### HX-A451W

#### Double Cassette Deck

Here are all the functions you need to dub and edit programs, and create tapes just the way you want them. The perfectly matched twin cassette drive mechanisms are powered by a high torque motor that ensures precise dubbing from the source tape. You can do one-touch dubbing at both the same speed and at double speed, and tape editing can be accomplished twice as quickly. Akai's



random program selection lets you play tape selections in any order you choose on either tape one or tape two by pressing only a single button you can make a total of 15 programs with 2 selections.

The HX-A451W also features an innovative continuous play function. During operation, playback switches automatically from tape one to tape two and vice versa. Additional features include a Dolby B/C NR system, HD (High Density) head, BPS (Blank Skip Play System), Intro Scan, auto play, IPLS, 2-way digital display, LED peak level meter and timer start function.

### HX-A351W

#### Double Cassette Deck

The HX-A351W also features perfectly matched twin cassette mechanisms. Dubbing from the source tape is precise, with virtually no deterioration in sound quality. The high speed dubbing mode allows

tape dubbing in half the normal playback time. And one-touch dubbing means operation is simple. The convenient continuous play function means that during operation, playback switches automatically from tape two to tape one. The HX-A351W also incorporates the Dolby NR system ensuring superior sound

quality by reducing tape hiss to an inaudible level. HX-A351W also includes: one-touch recording, HD head, LED peak level meter and Timer start function.



### GX-9

#### 3-Head Stereo Cassette Deck

A glance at the GX-9's impressive list of features is proof, Akai's original Double Tuning Bias System, Super

GX 3-head with closed loop double capstan by direct drive, Dolby B/C NR, DC amplifier circuitry incorporating oxygen-free copper wiring in all stages for sound purity, Quick and Quiet mechanism with microcomputer control, comprehensive centralized FL display, Intro Scan, IPLS, Quick Memory Search System, Direct lead-in and power eject, Auto Monitor system, and switchable MPX filter.



#### Features

**Rec Cancel**  
returns the most recent recording start point, and switches into record standby.  
**Intro Scan**  
plays the first 10 seconds (approx.) of each selection in order.  
**IPLS (Instant Program Location System)**  
moves automatically in either direction.

**Auto Play**  
automatically begins play after rewind.

**Auto Monitor**  
automatically switches from source monitor in record standby to tape monitor in record mode.

**Auto Mute**  
automatically creates a 4-second space between selections.

**Auto Tape Selector**  
checks cassette and automatically selects appropriate tape position.  
**Direct lead-in and power eject**  
Just place a cassette in the cassette compartment and press any operation button for power loading. Press the eject button and AKAI's unique power eject system ejects the cassette.

# Akai's advanced engineering raises CD sound reproduction to a new level of quality



## CD-A405 CD Player

The CD-A405 not only sounds great, but is great looking too, with an attractive body that stands only 63 mm tall. High performance digital filters remove the harmonics and distortion produced by the sampling frequency, and special anti-resonance rubber feet prevent the transmission of resonance from the placement surface to the chassis. You can program the CD-A405 to play up to 36 tracks in any order you wish, and with the wireless 10-key remote control you can operate all of the CD-A405's convenient features from the

comfort of your easy chair. A clear FL display indicates track in play, elapsed/remaining time, and program play. A headphone jack with headphone volume control provides the ultimate in sound quality. Additional features include; superb tracking accuracy with the 3-beam laser pickup and 2-mode repeat function.

## CD-M300 CD Player

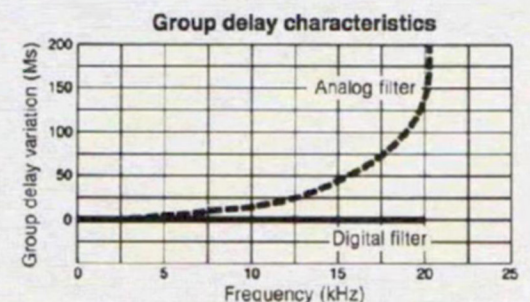
This fascinating optional unit makes the Midi system even more impressive. The CD-M300 features a 20-track random programming function that lets you enjoy disc playback selection in any order that you choose. Other convenient operating features include Music and Index Search, which makes it simple to find a particular selection.



### High Performance Digital Filter

The CD-A405 features high performance digital filters that remove the harmonics and distortion produced by the sampling frequency – the number of times per second the laser pickup 'reads' the digital music information on the surface of the disc. Sophisticated methods are employed to suppress this distortion and digital filters are applied to an oversampling

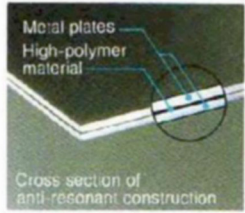
system (where the sampling frequency is doubled to 88.2 kHz, far outside the audio band) to remove quantizing noise. Then, a final safeguard; low-pass analog filters suppress remaining elements of the sampling frequency. Leaving you with clear, undistorted music, free of undesirable phase shift, noise and modulation.



## CD-A70

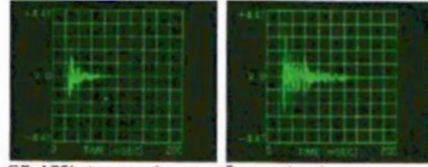
### CD Player

Akai's unique Anti-Resonance Construction suppresses vibration. A cabinet panel with a 3-layer construction and insulated rubber feet made of a special new anti-resonant rubber which further suppress vibration, Double Insulated Floating Mechanism effectively isolates the pickup assembly from

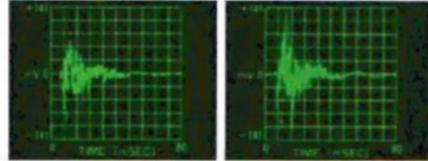


vibration. Thus, Akai's innovative, highly effective Anti-Resonance Construction results in a pure sound quality unaffected by mechanical distortion.

#### Attenuation of new anti-resonant metal



#### Attenuation of new anti-special rubber



The servo control system eliminates detrimental effects on sound quality by suppressing vibration to the absolute minimum, realizing a dramatic reduction in tracking error. Dual power supply ensures stability and eliminates noise. New high-performance digital filters improve high end fidelity. Akai's original natural logic operation feature makes random programming simple. Additional features include; wireless remote control, disc center support, 3-beam laser pickup, 4-mode repeat function, index and manual search, and centralized FL display.



## CD-A30II

### CD Player

The servo control system automatically increases the degree of servo control to prevent mistracking

due to external vibration. The disc drive and laser pickup are mounted as a single unit in the new Double Insulated Floating Mechanism. It also features a 3-beam laser pickup, 36-selection random program playback

and a 4-mode repeat function which lets you play songs in any order you choose. Other features include a disc center support, centralized dual display, and Music and Index Search.

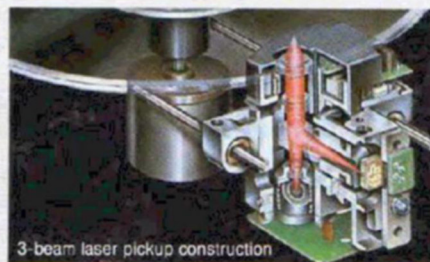


### The 3 Beam Laser Pickup

In order to accurately read the minute 0.5 micron wide data pits encoded on compact discs, Akai CD Players utilize a 3-beam laser system which has two error-detection Sub-Laser pickups located to the left and right of the Main Laser Spot.



<3-beam laser pickup>



3-beam laser pickup construction

*Superior sound quality forms the heart of your home entertainment system*



**AM-A302**

**Stereo Integrated Amplifier**

A DC Servo amplifier is used in the power amp section, ensuring clear and dynamic sound reproduction; 320 watts of music power. With all input switching functions assembled to the right, the wide variety of input sources are readily available at the touch of a single switch. The built-in 5-band graphic equalizer allows you to customize the sound. Processor terminals allow you to connect an optional graphic equalizer or an audio processor. Additional features include: LED function and level displays, two tape monitor system, A-B speakers selector and loudness control.



**AM-A202**

**Stereo Integrated Amplifier**

Many of the main features on the AM-A302 are also available on this efficient, powerful integrated stereo amplifier. Utilizing Akai's carefully designed DC amplifier construction, the AM-A202 produces 200 watts of music power. With the operation

controls and the LED function indicators conveniently located, the AM-A202 provides trouble-free ease of operation. Convenient rear terminals let you simply plug in the optional graphic equalizer or audio processor. Also includes: 5-band graphic equalizer, electronic speaker protection circuitry and loudness control.

**AM-A102**

**Stereo Integrated Amplifier**

For a truly cost-efficient amplifier that delivers exceptional sound quality, the AM-A102 is a natural choice. It has all the features of the AM-A202 except with a slightly lower power rating; 160 watts of music power. Also includes: A-B speakers selector, 5-band graphic equalizer and loudness control.



**AM-A402**

**Stereo Integrated Amplifier**

For the dedicated audio enthusiast, the AM-A402 matches the AM-A302 feature for feature. The only difference between the AM-A402 and the AM-A302 is the increased power; 430 watts of music power.



# Enter a new era of audio/video entertainment



## AA-V305

### Stereo A/V Surround Receiver

With an impressive 310 watts of music power, the AA-V305 provides plenty of power. Making this receiver even more attractive is the Surround Sound system. By adding a second pair of rear-positioned speakers and using the surround mode, you get the sense of being right in the middle of

the music. Total system integration comes from multiple source inputs. You can connect 3 video inputs and 4 audio components with capability of dubbing from tape to tape, or disc to tape. A TV monitor can also be linked to the monitor terminals. The built-in quartz synthesizer tuner provides the absolute best in radio reception with 16-channel random preset capability and using the built-in 5-band graphic

equalizer, you can precisely adjust the sound quality. A wireless remote control unit gives you the operating convenience of directing all major functions. And the centralized liquid crystal display provides ample operating information. Two sets of speakers can be driven together or independently.

## AA-V405

### Stereo A/V Surround Receiver

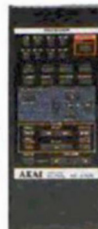
Like the AA-V305, the AA-V405 is a sophisticated audio/video control receiver with all the features you need to enjoy thrilling entertainment. However, the difference here is music power. The AA-V405 provides extra

punch for the demanding listener; 430 watts of music power. Another advantage is the built-in 7-band graphic equalizer for even more precise control.



## AA-V205

### Stereo A/V Surround Receiver



Features include quartz synthesizer tuner with 16-channel random preset capability, 200 watts of music power, Surround Sound system with an optional second speaker pair, inputs for 2 video and 3 audio components, and easy recording and dubbing from both video and audio sources.

## AA-V105

### Stereo A/V Surround Receiver



The AA-V205 produces a substantial 280 watts of music power. It permits hookup with 3 video inputs, 4 audio inputs and a monitor TV. Additional features include; Surround Sound system, quartz synthesizer tuner, built-in 5-band graphic equalizer and wireless remote control.

## QUARTZ SYNTHESIZER TUNER STEREO GRAPHIC EQUALIZER

# Quartz synthesizer accuracy and microcomputer control

## AT-A102

### Quartz Synthesizer Tuner

The sleek, AT-A102 places Akai's sophisticated tuning technology within the reach of any music lover. Its digital quartz synthesizer tuning

brings in all your favorite stations with razor-sharp accuracy and a minimum of distortion and interference. The 16-channel random preset memory gives you one-touch access to any station. Long-life lithium batteries power a back-up memory and the centralized

liquid crystal display indicates frequency and channel. Additional features include: FM AUTO/MONO Mode selector and a special jack on the rear panel that enables the future connection of a remote control signal processor.



## AT-A301

### Quartz Synthesizer Tuner

Any of the 16 available station settings can be programmed to whatever station you choose, whether it be AM or FM, with virtually no more

effort than is required to select them. You can also scan all the memory preset stations and the back-up memory circuit (lithium battery) prevents power losses from erasing your programmed selections. The centralized FL display instantly makes

visible the selected station, and frequency tuning status from anywhere in the room. Additional features include: FM AUTO/MONO Mode selector, detachable AM Loop antenna, soft-touch controls and LED stereo indicator.



# Precise sound control for audio perfection

## EA-A22

### Stereo 9-band Graphic Equalizer

The Akai EA-A22 permits control of the sound response on 9 different center frequencies in both the left and right channels. The 9 slider switches enable  $\pm 12$  dB control with remarkably low distortion. The mode REC/PB switch enables equalizer

compensation during recording or playback. The Monitor switch allows you to equalize the sound output of the tape deck, or the sound source selected by your system.



# Linear Accuracy and Fully Automatic Convenience

## AP-A301

### Linear Tracking Turntable

The AP-A301 has been given a low-profile design that adds a sleek and sophisticated styling touch to any audio system and listening environment. The linear tracking tonearm design reduces lateral tracking forces to virtually nil, yielding both superior stereo imaging and reduced record wear, assuring you of long hours of quality audio performance. Features include: fully automatic operation and manual cueing through front panel control, high precision EG servo DC motor for accurate platter rotation, a T4P

plug-in cartridge with Low-mass tone arm offering superb sound reproduction and ease of replacement, stylus landing mute, low resonance cabinet, independent record size and speed selection switches.



## AP-A101

### Turntable

The AP-A101 semi-automatic turntable offers easy operation with a straight tonearm design. Rotational accuracy is guaranteed by the DC servo motor. Another feature is the T4P plug-in cartridge; the industry standard for easy compatibility.



## EA-A7

### Stereo 7-band Graphic Equalizer

EA-A7 combines a microcomputer with low-distortion high performance semiconductor components. The audio frequency spectrum is divided into 7 bands. These bands can be adjusted separately for left and right channels. Features include: large 2 mode FL display showing equalization curve or spectrum

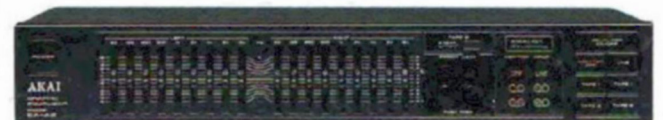
indications; memory capability for 3 different equalization curves; provision for the connection of two tape decks and simultaneous dubbing capability. Also includes: feather touch CURVE, SPECTRUM, and DEFEAT buttons, signal bypass circuit design, and last-one memory.



## EA-A2

### Stereo 9-band Graphic Equalizer

The EA-A2 features an independent response adjustment system that provides for the individual level adjustment of both left and right channels. Additional features include: 9-band design,  $\pm 12$  dB continuous change capability, provision for the connection of two tape decks, simultaneous dubbing capability, front panel terminal accessibility and signal bypass circuit.



# Linear Accuracy and Fully Automatic Convenience

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# Catch all the fun of being at the movies in your own home

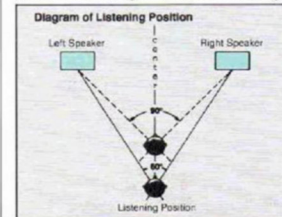
Surround sound processing is one of the most exciting new developments in audio video technology today. Although the concept is simple, the technology required to achieve it can be quite complex. The goal is to achieve music sound quality that reproduces that of a live concert hall performance. In a concert hall, or even in a well-designed jazz club, the

music literally seems to fill the room. This is no accident. It is caused by the dynamics of a live performance plus sophisticated acoustical engineering. This 'surround' effect is the one quality of live music that has been elusive. Another, sometimes even more dramatic listening experience is the result of Dolby Surround, a new audio signal encoding system now

used for many of the better quality movies. The audience is actually surrounded by sound. Dialogue comes from front-positioned speakers and special effects and other sounds come from speakers positioned at the back of the theater. The feeling is of being placed right in the middle of the action; once experienced, it can never be forgotten.



'presence' can be obtained by using only the front two speakers. Moreover, there is practically no loss in sound quality. A 3-position selector lets you choose STAGE, with a concert hall atmosphere; MOVIE, with a 'surround' sound effect; and LIVE, with a real 'live performance' feeling.



## AS-P205

**Sound Presence Controller**

The Akai AS-P205 lets you achieve some of the most dramatic effects now becoming popular in home audio video systems, without a second pair of speakers. Thanks to Akai's dedication to advanced circuitry design, the same sense of presence that can be experienced in a concert hall can now be experienced through just two front speakers. The AS-P205 can provide the surround sound effect with the stereo encoded on many of the newer commercially recorded movies. The AS-P205 doesn't require extra speakers, so it is uniquely effective for improved home audio enjoyment. A powerful 'sound



## AS-P202

**Remote Control Center**

The AS-P202 provides a convenient addition to any home entertainment system. It connects video components and provides remote control operation of components connected to the AS-P202 and AT-A102 tuner's preset station control. Moreover, by combining the AS-P202 with the AS-P205, you can enjoy the full operation

of a remote control surround processor. Main features of the AS-P202 include: infrared wireless remote control, input selector function for VCR (2 systems), Video Disc Player, Aux/Tape and mutual dubbing between video components or audio and video components.

## AS-P302

**Surround Processor**

Akai's innovative AS-P302 stands as a fascinating new concept in audio realism. As a combination of both A/V selector and surround processor, it brings together in one component some of the most desired A/V features today. It is the sophisticated heart of an integrated audio video center.

Outstanding features include:

1. Dolby Surround Decoder.
2. Surround Power Amplifier (120 watts of music power) drives a second pair of speakers.
3. Multiple inputs for VCR (2 systems), Video Disc Player, Video Aux, and Tape Deck.
4. Infrared wireless remote control

operates the entire integrated audio video system.

5. Mutual dubbing between video components or audio and video components.
6. Use of other sources while dubbing (Rec hold function) for total integrated system performance.

### Dolby Surround

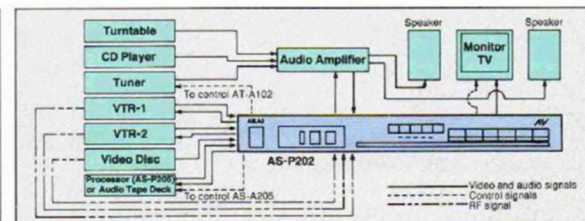
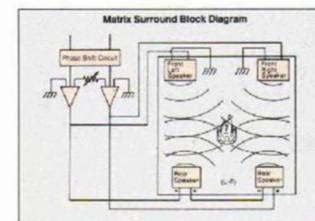
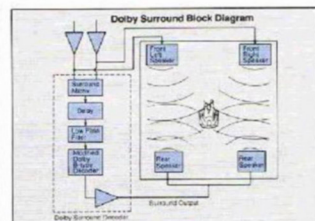
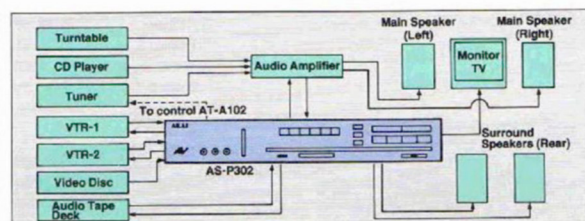
The soundtracks of many of today's movies are recorded in Dolby stereo for added realism. Akai's new AS-P302 offers a Dolby Surround System, with a built-in Dolby Surround Decoder. In the Dolby Surround System, the normal stereo signal is output directly from the front.

Meanwhile, the surround signal processed through a special Surround Matrix Circuit. The L-R signal difference is isolated and delayed by 15-30 ms, then is output through a 7 kHz Low Pass Filter and a Dolby NR System. The result: exceptional sound quality. And it can be enjoyed not only on video or video disc movies, but also on regular TV broadcasts when movies recorded in Dolby stereo are shown.

### Akai's Matrix Surround

Not all video programs are encoded with Dolby Surround. That's why Akai's Matrix Surround function is such a special advantage. This system, unlike the Dolby Surround Decoder is not limited to the playback of material

encoded with the Dolby Surround System. It plays back tapes that are not encoded with Dolby Surround and still creates a 'Surround' sound effect. Therefore, it lets you enjoy a similar sense of greater realism, with both ordinary stereo video tapes and discs as well. All the excitement of surround sound is maintained, thanks to Akai's advanced technology. A phase shifting circuit in the output stage is used to create a phase difference between the signals sent to the front and rear speakers, according to signal frequency. The result is a heightened sense of realism that could not be experienced before.



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Archiv Michael Otto

# Stunning mid-sized component systems that reflect today's life-styles



Tuner-Amp-Deck : AC-M312  
Semi-automatic Turntable : AP-M512  
Speaker System : SW-M313\*

## System M312

The amplifier section pumps out 190 watts of music power, and the DC amp design gives you the best sound reproduction, with distortion at almost unmeasurably low levels. Plus, the built-in 5-band graphic equalizer gives you precise sound tailoring capacity to compensate for uneven room acoustics. The double cassette deck section features continuous playback, Dolby NR system and metal tape compatibility. And the quartz

And the quartz synthesizer tuner gives superb, unwavering reception. A 16-channel random preset operation for both AM and FM frequencies makes the tuner enjoyable to use. The AP-M512 semi-automatic turntable fits neatly onto the top of the main unit and its tonearm is low-mass and straight, assuring accurate tracking with minimum wear on the disc. The SW-M313 speaker system delivers the big sound of clarity in a more compact size. Complete audio/video compatibility has been ensured with low magnetic flux radiation type flat and square diaphragm woofers and cone-type tweeters for superb sound reproduction with no video interference.

## System M512

System M512 boasts all of the features that make System M312 so superb, plus some extras that make it even more special. The amplifier section supplies 250 watts of music power through a DC design, giving incredibly high fidelity, and enough power to bring out the full dynamic range of each digital music source. The double cassette deck features continuous playback, as well as convenient high-speed dubbing from cassette to cassette. A wireless remote control puts you in control of System M512 from the comfort of your easy chair. System M512 also features the AP-M512 semi-automatic turntable and the high-quality SW-M313 speaker system.



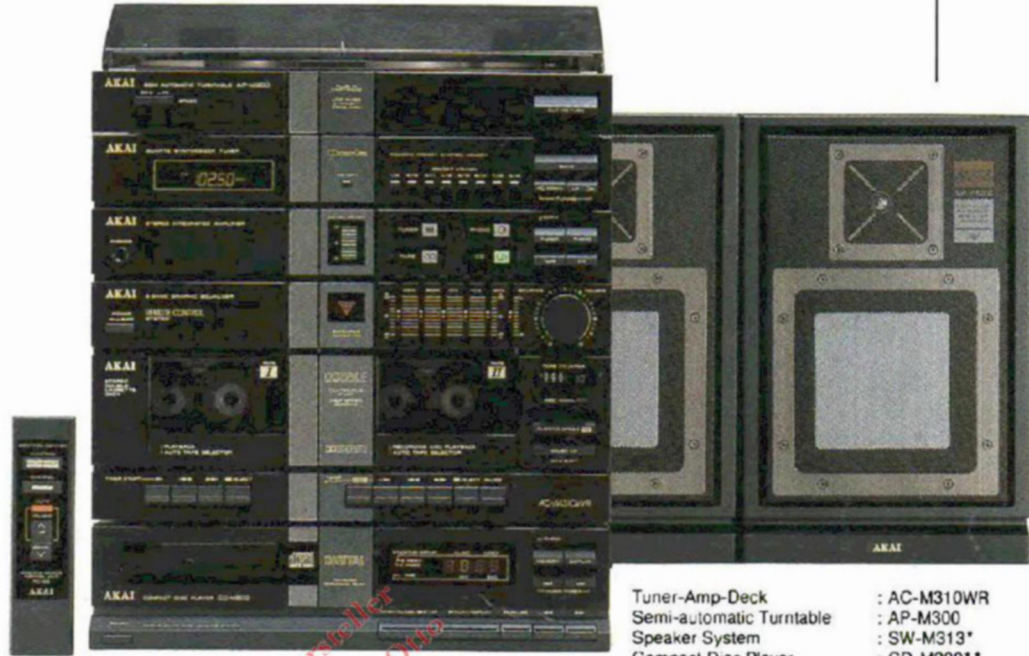
Tuner-Amp-Deck : AC-M512  
Semi-automatic Turntable : AP-M512  
Speaker System : SW-M313\*

\* : Speaker system might be different according to market.

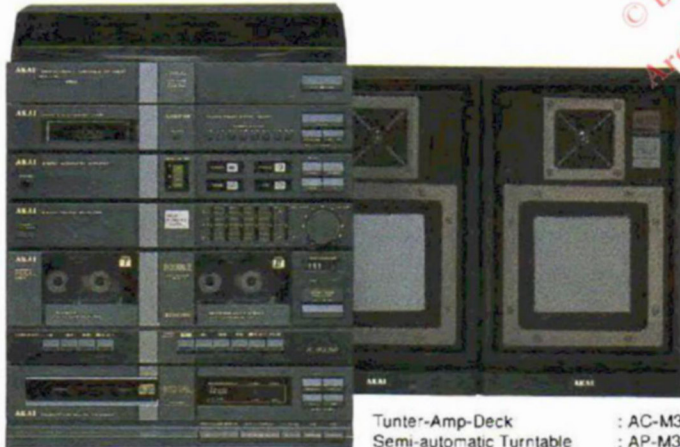
## System M310WR

The tuner, amplifier, 5-band graphic equalizer and cassette deck are combined into a single, high-quality core component unit. Naturally, these key elements of the audio system are perfectly matched to bring out the best in your music. The DC construction amplifier pumps out 250 watts of music power for superior music reproduction, and ensures minimum distortion for the very finest sound quality. Plus the built-in 5-band graphic equalizer lets you precisely adjust the tone quality of the sound. The high-speed dubbing and continuous playback convenience of a double cassette deck is also a real plus. A wireless remote control makes System M310WR truly enjoyable and a quartz synthesizer tuner supports a 16-station random preset operation for both AM and FM frequencies. Also included in System M310WR are the AP-M300 semi-automatic turntable, the SW-M313 flat

diaphragm speaker system, and highly sophisticated matching options, such as the CD-M300 compact disc player or DT-M300 timer/spectrum analyzer.



Tuner-Amp-Deck	: AC-M310WR
Semi-automatic Turntable	: AP-M300
Speaker System	: SW-M313*
Compact Disc Player	: CD-M300**
Audio Timer	: DT-M300**



Tuner-Amp-Deck	: AC-M305W
Semi-automatic Turntable	: AP-M300
Speaker System	: SW-M313*
Compact Disc Player	: CD-M300**
Audio Timer	: DT-M300**

## System M305W

Here the amplifier, tuner, 5-band graphic equalizer and double cassette deck are combined in a single, highly efficient unit, amplifier producing 190 watts of music power. The AP-M300 turntable is simple to operate and a low mass straight tonearm ensures accurate disc tracking. The SW-M313 speaker system brings out all the music's subtle nuances, thanks to a flat and square diaphragm design.

## System M300

System M300 is a one-package system. The amplifier section delivers 190 watts of music power. Outstanding features include: built-in 5-band graphic equalizer, quartz synthesizer tuner with 16-station random preset operation, a SW-M313 low magnetic flux radiation speaker and a AP-M300 semi-automatic turntable.

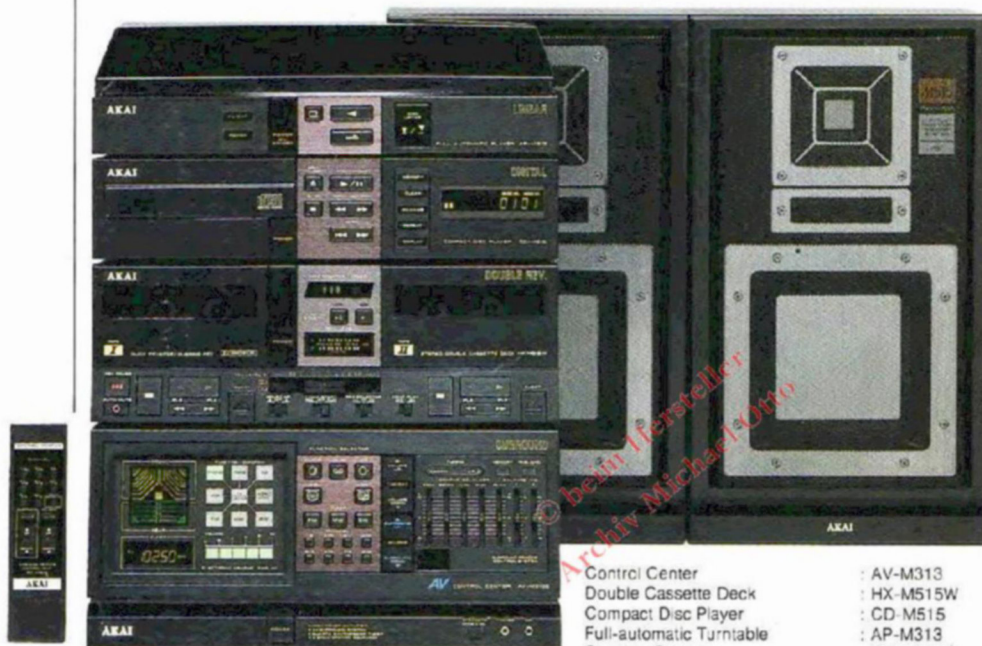


Tuner-Amp-Deck	: AC-M300
Semi-automatic Turntable	: AP-M300
Speaker System	: SW-M313*
Compact Disc Player	: CD-M300**
Audio Timer	: DT-M300**

\* : Speaker system might be different according to market.

# Clean and pure digital sound from Clarity's finest

## System M313 FWR



- Control Center : AV-M313
- Double Cassette Deck : HX-M515W
- Compact Disc Player : CD-M515
- Full-automatic Turntable : AP-M313
- Speaker System : SW-M515\*
- Surround Sound Speaker System : AE-S90\*

The cornerstone of System M313 FWR, the AV-M313 AV control center, delivers 160 watts of music power controlled by a 5-band graphic equalizer. Its surround sound system produces a breathtaking sound sensation with the optional AE-S90 surround speakers. The thrilling experience of digital sound is yours with the CD-M515 compact disc player. Playback performance is superb, with over 90dB of dynamic range, full-spectrum frequency response, and extremely low noise and distortion. The wireless remote control unit offers total system control, while the 16-channel random preset quartz synthesizer tuning section provides accurate, one-touch reception. The HX-M515W double cassette deck offers high speed dubbing, quick reverse and continuous play functions. The AP-M313 fully automatic turntable features linear tracking, for exacting sound reproduction. Full-bodied listening pleasure is provided by the SW-M515 speaker system which features square and flat diaphragm drivers for big sound with low distortion.

## System M313 FW

The System M313 FW shares all the same sound performance and components of the M313 FWR, but with a simpler cassette format. While offering one-touch high-speed dubbing, the HX-M313W double cassette deck extends your cassette listening enjoyment with its continuous play capability.

System M313 WR/W supplies all the top-of-the-line components found in the M313 FWR/FW, except for the option of adding the CD-M515 compact disc player. Also, the SW-M313 speaker system delivers the big sound of Clarity in a more compact size.



- Control Center : AV-M313
- Double Cassette Deck : HX-M313W
- Compact Disc Player : CD-M515
- Full-automatic Turntable : AP-M313
- Speaker System : SW-M515\*
- Surround Sound Speaker System : AE-S90\*

\* : Speaker system might be different according to market.

# Totally integrated stereo systems created for the discriminating music lover

## PRO-A400WR

This innovative integrated component design ensures fully rationalized interaction between the various sections of the system. With the PRO-A400WR, the tuner, amplifier, 5-band

graphic equalizer and double cassette deck are combined in a single, high-quality unit. The amplifier produces 250 watts of music power, and the DC construction of the amplifier circuitry permits only the lowest possible distortion. There's a built-in 5-band graphic equalizer that lets you precisely adjust the tonal quality of your music to your listening environment. With the double cassette deck, you can do high-speed tape dubbing easily. Moreover, a continuous playback feature switches automatically from one tape compartment to the other. Also included in the main unit is a quartz synthesizer tuner with 16-station random preset operation for both AM and FM frequencies. The PRO-A400WR can be operated almost totally by a wireless remote control unit. Select which input source you desire, raise or lower the volume. You can even change radio stations. The AP-A150 semi-automatic turntable fits on top of the main component unit. Rotational accuracy is guaranteed by the incorporation of an FG servo DC motor, plus the low mass straight tone arm provides accurate disc tracking with minimal record wear. The SW-A201 speaker system is a 3-way, 3-speaker bass reflex system that can handle a maximum power input of 100 watts.

- Tuner-Amp-Deck : AC-A400WR
- Semi-automatic Turntable : AP-A150
- 3-way Speaker System : SW-A201\*
- Audio Rack : RV-A400\*



## PRO-A300W

Sophisticated functions and brilliant music quality make the PRO-A300W an attractive choice. Here the amplifier, tuner, 5-band graphic equalizer and double cassette deck are combined in a single integrated unit. The amplifier section produces 190 watts of music power, and the AP-A150 semi-automatic turntable and SW-A101 3-way, 3-speaker system are electronically balanced for optimum audio reproduction.

- Tuner-Amp-Deck : AC-A300W
- Semi-automatic Turntable : AP-A150
- 3-way Speaker System : SW-A101\*
- Audio Rack : RV-A400\*



You can add the optional matching CD-A30 II compact disc player to further upgrade your system.

# The supreme achievement in system design



Stereo Integrated Amplifier	: AM-A402	3-way Speaker System	: SW-A301*
Digital Quartz Synthesizer Tuner	: AT-A102	Audio Rack	: RV-A7*
Double Cassette Deck	: HX-A451W	Surround Processor	: AS-P302**
Fully Automatic Linear Tracking Turntable	: AP-A301	Compact Disc Player	: CD-A301I**

## PRO-A402

The PRO-A402 is designed for the ultimate in audio sound quality and simple, error-free operation. The AM-A402 amplifier pumps out 430 watts of music power. The HX-A451W double cassette deck with random auto dubbing lets you dub or edit tapes the way you want. Key features are high-speed dubbing, continuous play and random play using the direct 12 key input unit. The AP-A301 turntable offers fully automatic one-touch operation and the linear tracking tonearm for superior tracking. Additional features include: AT-A102 digital quartz synthesizer tuner, and SW-A301 3-way, 3-speaker system.

## PRO-A302

The AM-A302 amplifier produces an impressive 320 watts of music power. A built-in 5-band graphic equalizer lets you custom-tune five frequency bandwidths. In addition, the HX-A351W double cassette deck features high-speed dubbing, continuous play, and one-touch dubbing. And the AT-A102 tuner ensures precise tuning with a minimum of distortion.

Stereo Integrated Amplifier	: AM-A302
Digital Quartz Synthesizer Tuner	: AT-A102
Double Cassette Deck	: HX-A351W
Fully Automatic Linear Tracking Turntable	: AP-A301
3-way Speaker System	: SW-A301*
Audio Rack	: RV-A7*
Remote Control Center	: AS-P202**
Compact Disc Player	: CD-A301I**



\* : Speaker system and Audio Rack might be different according to market.  
 \*\* : Optional

# A popular system for those who are serious about sound quality and easy operation

## PRO-A202

The PRO-A202 delivers 200 watts of music power from the AM-A202 amplifier which features a built-in 5-band graphic equalizer. The HX-A201 cassette deck features one-touch recording and Dolby B/C NR system. Additional features include: AP-A101 semi-automatic turntable, AT-A102 digital quartz synthesizer tuner, and SW-A201 3-way 3-speaker system.



- |                                  |           |                      |              |
|----------------------------------|-----------|----------------------|--------------|
| Stereo Integrated Amplifier      | : AM-A202 | 3-way Speaker System | : SW-A201*   |
| Digital Quartz Synthesizer Tuner | : AT-A102 | Audio Rack           | : RV-A2*     |
| Stereo Cassette Deck             | : HX-A201 | Compact Disc Player  | : CD-A3011** |
| Semi-automatic Turntable         | : AP-A101 |                      |              |



- |                                  |            |
|----------------------------------|------------|
| Stereo Integrated Amplifier      | : AM-A102  |
| Digital Quartz Synthesizer Tuner | : AT-A102  |
| Stereo Cassette Deck             | : HX-A101M |
| Semi-automatic Turntable         | : AP-A101  |
| 3-way Speaker System             | : SW-A101* |
| Audio Rack                       | : RV-A2*   |

## PRO-A102

The PRO-A102 also features some of the most popular functions of the top of the line systems; like 160 watts of music power with the AM-A102 amplifier, yet it's highly affordable. The SW-A101 speaker system features 3-way 3-speaker system. And the HX-A101M cassette deck features easy one-touch recording with metal tape capability.

\* : Speaker system and Audio Rack might be different according to market.

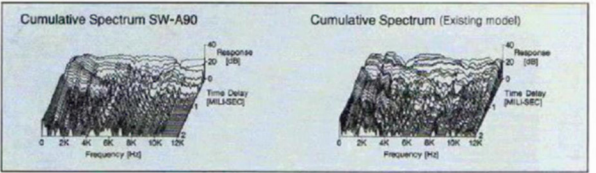
# Thrilling sound brilliance

## SW-A90

### 3-way Passive Radiator Speaker System

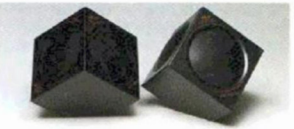
A dynamic, full-range sound with a deep, rich bass is supplied by the 3-way passive radiator design, rated for 200 watts of maximum input power. All the drivers in this 3-way system – tweeter, midrange, woofer and passive radiator – utilize a square-shaped flat honeycomb diaphragm to

offer both low-mass and rigidity for quick peak response and superb resolution. Making use of the sound waves being produced at the backside of the woofer, the passive radiator contributes to a fuller, richer bass with improved dynamic response and acoustic balance.



## AE-S90

### 3-dimensional Surround Speaker System



The AE-S90 surround speaker system uses a 10 cm full range driver and a passive radiator to deliver presence to all your listening enjoyment. This unique design provides a striking accent to any listening environment.



## SW-A70

### 4-way Speaker System

The SW-A70 speaker system features a 4-way bass-reflex design. The 300 mm woofers incorporate cones constructed of mica-reinforced polypropylene for lightness and rigidity, to deliver sharp yet powerful bass response. Both the midrange and tweeter use a rigid titanium hard dome design for excellent resolution, while the super tweeter provides extended high frequency response. Rated for 180 watts of maximum input power over a frequency range of 30 Hz–35 kHz.



## SW-A301

### 3-way Speaker System

The SW-A301 speaker system offers superb sound quality in a 3-way bass-reflex design. The 300 mm cone woofer emits spectacular bass response, with smooth and full midrange sound provided by the 120 mm cone midrange driver. For extra sound sparkle, a well-balanced high end is delivered by the 50 mm cone tweeter. Maximum power handling capability is 130 watts (240 watts of music power), with frequency response from 35 Hz to 20 kHz. Exhibiting sharp, mirror-image styling, the SW-A301 speakers are available in either Walnut or Mahogany finish, and are attractive additions to any listening environment.



## SW-A201

### 3-way Speaker System

The SW-A201 speaker system delivers exciting sound performance for audiophiles and casual listeners alike. The slim cabinets feature a 3-way bass reflex configuration. A 250 mm cone woofer produces impressive bass response with a minimum of distortion. The 100 mm cone midrange driver offers superbly smooth midrange response, with clear high frequency output provided by the 50 mm cone tweeter. Frequency response is from 40 Hz up to 20 kHz, with 80 watts of maximum power handling capability (135 watts of music power). Available in either Walnut or Mahogany finish.



## SW-A101

### 3-way Speaker System

Specially made for the budget-minded audiophile with a desire for big Akai sound, the SW-A101 speaker system delivers full-range music performance from a slim bass-reflex design. The 3-way system employs a 200 mm cone woofer for dynamic bass response. Rich

midrange sound is delivered by the 90 mm cone midrange driver, while crystal clear high notes are brought to life by the 50 mm cone-type tweeter. The result is a balanced, full-bodied sound, with 45 Hz to 20 kHz frequency response and 80 watts of maximum power handling capacity (135 watts of music power). Walnut or Mahogany finish.

## CASSETTE DECK

MODEL	GX-8	GX-6	GX-R70/EX	GX-R60/EX
<b>Motors</b>	Quartz PLL DD Motor for capstan drive ×1, DC Motor for reel drive ×1, DC Motor for cam & door drive ×1	FG Servo DD Motor for capstan drive ×1, DC Motor for reel drive ×1, DC Motor for cam & door drive ×1	Electronically speed controlled DC Motor for capstan drive ×1, DC Motor for reel and lid drive ×1, DC Motor for cam drive ×1	Electronically speed controlled DC Motor for capstan drive ×1, DC Motor for reel and lid drive ×1, DC Motor for cam drive ×1
<b>Heads</b>	LC-OFC Super GX Head for recording ×1, LC-OFC Super GX Head for playback ×1, Erase Head ×1	LC-OFC Super GX Head for recording ×1, LC-OFC Super GX Head for playback ×1, Erase Head ×1	Twin Field Super GX Head for recording and playback ×1 (GX-R70) LC-OFC Twin Field Super GX Head for recording and playback ×1 (GX-R70EX) Erase Head ×1	Twin Field Super GX Head for recording and playback ×1 (GX-R60) LC-OFC Twin Field Super GX Head for recording and playback ×1 (GX-R60EX) Erase Head ×1
<b>Wow &amp; flutter</b>	0.025% WRMS, 0.04% (DIN)	0.025% WRMS, 0.04% (DIN)	0.05% WRMS, 0.12% (DIN)	0.05% WRMS, 0.12% (DIN)
<b>Distortion (Metal)</b>	0.6%	0.6%	0.8%	0.8%
<b>Frequency response</b> Metal CrO <sub>2</sub> Normal	20–21,000 Hz ±3 dB 20–20,000 Hz ±3 dB 20–19,000 Hz ±3 dB	20–21,000 Hz ±3 dB 20–20,000 Hz ±3 dB 20–19,000 Hz ±3 dB	20–19,000 Hz ±3 dB 20–18,000 Hz ±3 dB 20–17,000 Hz ±3 dB	20–19,000 Hz ±3 dB 20–18,000 Hz ±3 dB 20–17,000 Hz ±3 dB
<b>S/N (Metal)</b>	60 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 10 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	60 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 10 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	60 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 10 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	60 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 10 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz
<b>Dynamic Range</b>	110 dB (dbx ON)	—	110 dB (dbx ON)	110 dB (dbx ON)
<b>Dimensions</b>	440(W)×111(H)×353(D)mm (17.3×4.4×13.9 inches)	440(W)×111(H)×353(D)mm (17.3×4.4×13.9 inches)	440(W)×105(H)×280(D)mm (17.3×4.1×11.0 inches) (GX-R70) 440(W)×115(H)×280(D)mm (17.3×4.5×11.0 inches) (GX-R70EX)	440(W)×105(H)×280(D)mm (17.3×4.1×11.0 inches) (GX-R60) 440(W)×115(H)×280(D)mm (17.3×4.5×11.0 inches) (GX-R60EX)
<b>Weight</b>	6.5 kg (14.3 lbs)	6.5 kg (14.3 lbs)	5.2 kg (11.5 lbs)	5.0 kg (11 lbs)

MODEL	HX-R40	HX-A451W	HX-A351W
<b>Motors</b>	Electronically speed controlled DC Motor for capstan drive ×1, DC Motor for reel drive ×1, DC Motor for cam drive ×1	DC Motor for capstan drive ×1, DC Motor for reel drive ×2	DC Motor for capstan drive ×2
<b>Heads</b>	HD Head for recording and playback ×1, Erase Head ×1	HD Head for recording & playback ×1, HD Head for playback ×1, Erase Head ×1	HD Head for recording & playback ×1, HD Head for playback ×1, Erase Head ×1
<b>Wow &amp; flutter</b>	0.05% WRMS, 0.12% (DIN)	0.09% WRMS, 0.16% (DIN)	0.09% WRMS, 0.16% (DIN)
<b>Distortion (Metal)</b>	0.8%	0.8%	0.8%
<b>Frequency response</b> Metal	20–19,000 Hz ±3 dB	30–16,000 Hz ±3 dB	30–16,000 Hz ±3 dB

MODEL	HX-R40	HX-A451W	HX-A351W
CrO <sub>2</sub> Normal	20-18,000 Hz ±3 dB 20-17,000 Hz ±3 dB	30-15,000 Hz ±3 dB 30-15,000 Hz ±3 dB	30-15,000 Hz ±3 dB 30-15,000 Hz ±3 dB
S/N (Metal)	59 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 10 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	57 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 10 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	56 dB: Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz
Dimensions	440 (W)×110 (H)×250 (D) mm (17.3×4.3×9.8 inches)	440 (W)×108 (H)×291 (D) mm (17.3×4.3×11.5 inches)	440 (W)×123 (H)×279 (D) mm (17.3×4.8×11.0 inches)
Weight	4.3 kg (9.5 lbs)	4.4 kg (9.7 lbs)	4.0 kg (8.8 lbs)

MODEL	GX-9	HX-A201	HX-A101/M
Motors	FG Servo Direct Drive Motor for capstan drive ×1, DC Motor for reel drive ×1, DC Motor for mechanism drive ×1, DC Motor for cam & door drive ×1	Electronically speed controlled DC Motor for capstan drive ×1	Electronically speed controlled DC Motor for capstan drive ×1
Heads	Super GX Head for recording ×1, Super GX Head for playback ×1, Erase Head ×1	HD Head for recording and playback ×1, Erase Head ×1	HD Head for recording and playback ×1, Erase Head ×1
Wow & flutter	0.025% WRMS, 0.04% (DIN)	0.05% WRMS, 0.12% (DIN.WTD)	0.05% WRMS, 0.12% (DIN.WTD)
Distortion (Metal)	0.6%	0.7%	0.7%
Frequency response Metal CrO <sub>2</sub> Normal	20-21,000 Hz ±3 dB 20-20,000 Hz ±3 dB 20-19,000 Hz ±3 dB	30-17,000 Hz ±3 dB 30-16,000 Hz ±3 dB 30-15,000 Hz ±3 dB	30-17,000 Hz ±3 dB (HX-A101M) 30-16,000 Hz ±3 dB 30-15,000 Hz ±3 dB
S/N (Metal)	60 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 10 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	56 dB: Dolby C NR ON; Improves up to 15 dB at 500 Hz, 20 dB at 1 to 5 kHz, Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	56 dB: Dolby B NR ON; Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz
Dimensions	440 (W)×105 (H)×372 (D) mm (17.3×4.1×14.6 inches)	440 (W)×110 (H)×255 (D) mm (17.3×4.3×10.0 inches)	440 (W)×110 (H)×255 (D) mm (17.3×4.3×10.0 inches)
Weight	7.0 kg (15.4 lbs)	3.2 kg (7.1 lbs)	3.2 kg (7.1 lbs)

## COMPACT DISC PLAYER

MODEL	CD-A405	CD-A70	CD-A30II	CD-M300	CD-M515
Sensor type	Optical	Optical	Optical	Optical	Optical
Pickup	Semiconductor laser, 3-beam	Semiconductor laser, 3-beam	Semiconductor laser, 3-beam	Semiconductor laser, 1-beam	Semiconductor laser, 3-beam
Channels	2	2	2	2	2
Sampling frequency	44.1 kHz	44.1 kHz	44.1 kHz	44.1 kHz	44.1 kHz
Frequency Response	5-20,000 Hz	5-20,000 Hz	5-20,000 Hz	5-20,000 Hz	5-20,000 Hz
T.H.D.	0.006% (1 kHz)	0.003% (1 kHz)	0.006% (1 kHz)	0.006% (1 kHz)	0.006% (1 kHz)
Dynamic range	90 dB	95 dB	90 dB	90 dB	90 dB
Wow & flutter	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits
Dimensions	440 (W)×63 (H) ×295 (D) mm (17.3×2.5×11.6 inches)	440 (W)×89 (H) ×260 (D) mm (17.3×3.5×10.2 inches)	440 (W)×79 (H) ×260 (D) mm (17.3×3.1×10.2 inches)	350 (W)×89 (H) ×274 (D) mm (13.8×3.5×10.8 inches)	350 (W)×85 (H) ×250 (D) mm (13.8×3.3×10.2 inches)
Weight	3.3 kg (7.3 lbs)	3.9 kg (8.6 lbs)	3.5 kg (7.7 lbs)	3.5 kg (7.7 lbs)	3.2 kg (7.0 lbs)

## AMPLIFIER

MODEL	AM-A402	AM-A302	AM-A202	AM-A102
Rated Power Output 20-20,000 Hz	100 W/0.09%	60 W/0.09%	40 W/0.3%*	25 W/0.3%*
Music Power	430 Watts	320 Watts	200 Watts	160 Watts
S/N Ratio (IHF-A) PHONO CD/AUX	72 dB 95 dB	72 dB 95 dB	72 dB 92 dB	72 dB 92 dB
Channel Separation	60 dB	60 dB	60 dB	60 dB
Damping Factor	45	45	20	20
Input Sensitivity/Impedance PHONO CD/Tape	2.5 mV/47 kohms 150 mV/47 kohms	2.5 mV/47 kohms 150 mV/47 kohms	2.5 mV/47 kohms 150 mV/47 kohms	2.5 mV/47 kohms 150 mV/47 kohms
Graphic Equalizer Control Range Center Frequency	±10 dB 63/250/1k/4k/16k Hz	±10 dB 63/250/1k/4k/16k Hz	±10 dB 63/250/1k/4k/16k Hz	±10 dB 63/250/1k/4k/16k Hz
Dimensions	440 (W)×100 (H)×250 (D) mm (17.3×3.9×9.8 inches)	440 (W)×100 (H)×250 (D) mm (17.3×3.9×9.8 inches)	440 (W)×100 (H)×250 (D) mm (17.3×3.9×9.8 inches)	440 (W)×100 (H)×250 (D) mm (17.3×3.9×9.8 inches)
Weight	7.3 kg (16.1 lbs)	6.8 kg (15.0 lbs)	5.8 kg (12.8 lbs)	5.2 kg (11.5 lbs)

\* 40 Hz-20,000 Hz

# RECEIVER

MODEL	AA-V405	AA-V305	AA-V205	AA-V105	AV-M313
<Amp Section> Rated Power Output 20-20,000 Hz	100 W/0.05%	80 W/0.05%	60 W/0.05%	35 W/0.3%*	40 W/0.2%*
Music Power	430 Watts	310 Watts	280 Watts	200 Watts	160 Watts
S/N Ratio (IHF-A) PHONO CD/AUX	75 dB 98 dB	75 dB 98 dB	75 dB 98 dB	70 dB 90 dB	80 dB 80 dB
Input Sensitivity/Impedance PHONO CD/TAPE VTR/V. DISC (Audio) (Video)	2.0 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms 1.0 Vp-p/75 ohms	2.0 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms 1.0 Vp-p/75 ohms	2.0 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms 1.0 Vp-p/75 ohms	2.0 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms 1.0 Vp-p/75 ohms	2.0 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms -
Equalizer Control Range Center Frequency	±10 dB 63/150/400/1k/2.5k/ 6k/16k Hz	±10 dB 63/250/1k/4k/16k Hz	±10 dB 63/250/1k/4k/16k Hz	- -	±8 dB 63/250/1k/4k/16k Hz
<FM Tuner Section> Tuning Frequency Range	87.5-108.0 kHz	87.5-108.0 kHz	87.5-108.0 kHz	87.5-108.0 kHz	87.5-108.0 kHz
Usable Sensitivity (300 ohms)	11.2 dBf	11.2 dBf	11.2 dBf	12.7 dBf	12.7 dBf
Capture Ratio	1.5 dB	1.5 dB	1.5 dB	2.0 dB	2.0 dB
Selectivity (400 Hz)	60 dB	60 dB	60 dB	60 dB	60 dB
S/N (IHF) (Mono/Stereo)	75 dB/65 dB	75 dB/65 dB	75 dB/65 dB	70 dB/60 dB	65 dB/60 dB
<MW Tuner Section> Tuning Frequency Range	531-1,602 kHz	531-1,602 kHz	531-1,602 kHz	531-1,602 kHz	531-1,602 kHz
Usable Sensitivity	300 µV/m	300 µV/m	300 µV/m	300 µV/m	300 µV/m
Selectivity	22 dB	22 dB	22 dB	30 dB	20 dB
S/N	40 dB	40 dB	40 dB	40 dB	35 dB
Dimensions	440 (W)×131 (H)× 342 (D) mm (17.3×5.2×13.5 inches)	440 (W)×131 (H)× 342 (D) mm (17.3×5.2×13.5 inches)	440 (W)×100 (H)× 343 (D) mm (17.3×3.9×13.5 inches)	440 (W)×100 (H)× 277 (D) mm (17.3×3.9×10.9 inches)	350 (W)×160 (H)× 325 (D) mm (13.8×6.3×12.8 inches)
Weight	10.5 kg (23.1 lbs)	10.0 kg (22.0 lbs)	7.4 kg (16.3 lbs)	5.4 kg (11.9 lbs)	7.3 kg (16.1 lbs)

\* 40-20,000 Hz

# TUNER

MODEL	AT-A102		AT-A301	
<FM Tuner Section> Tuning Frequency Range	87.5-108.0 MHz		87.5-108.0 MHz	
Usable Sensitivity (300 ohms)	12.7 dBf		11.2 dBf	
Capture Ratio	2.0 dB		1.5 dB	
Selectivity (400 Hz)	60 dB		60 dB	
S/N (IHF) (Mono/Stereo)	70 dB/60 dB		75 dB/65 dB	
T.H.D. (Mono/Stereo)	0.2%/0.4%		0.1%/0.3%	
Stereo Separation (1 kHz)	40 dB		45 dB	
<AM/LW Tuner Section> Tuning Frequency Range	(AM) 531 - 1,602 kHz	(LW) 146 - 353 kHz	(AM) 531 - 1,602 kHz	(LW) 160 - 340 kHz
Usable Sensitivity	300 µV/m	800 µV/m	400 µV/m	800 µV/m
Selectivity	30 dB	40 dB	50 dB	50 dB
S/N	40 dB	35 dB	40 dB	35 dB
T.H.D.	1.0%	2.0%	1.0%	2.0%
Dimensions	440 (W)×60 (H)× 230 (D) mm (17.3×2.4×9.1 inches)		440 (W)×55 (H)× 275 (D) mm (17.3×2.2×10.8 inches)	
Weight	2.0 kg (4.4 lbs)		2.7 kg (5.96 lbs)	

# TURNTABLE

MODEL	AP-A301	AP-A101
Drive System	Belt driven, fully automatic	Belt driven, fully automatic
Motor	EG servo DC motor	DC servo motor
Wow & Flutter	0.05% (WRMS)	0.07% (WRMS)
Rumble	65 dB (DIN-B)	60 dB (DIN-B)
Tonearm	Linear tracking, static balanced type	Straight shaped, dynamic balanced type
Cartridge	VM type (PC-35/T4P Plug-in type)	VM type (PC-35/T4P Plug-in type)
Output Voltage	2.5 mV	2.5 mV
Dimensions	440 (W)×100 (H)× 373 (D) mm (17.3×3.9×14.7 inches)	440 (W)×105 (H)× 345 (D) mm (17.3×4.1×13.6 inches)
Weight	4.0 kg (8.8 lbs)	3.2 kg (7.1 lbs)

## EQUALIZER

MODEL	EA-A7	EA-A2	EA-A22
Center Frequency	63/160/400/1k/2.5k/6.3k/16k Hz	63/125/250/500/1k/2k/4k/8k/16k Hz	63/125/250/500/1k/2k/4k/8k/16k Hz
S/N (IHF-A)	better than 95 dB	better than 95 dB	better than 80 dB
Distortion	less than 0.03%	less than 0.03%	less than 0.09%
Control Range	±10 dB	±12 dB	±12 dB
Dimensions	440 (W)×70 (H)×225 (D) mm (17.3×2.8×8.9 inches)	440 (W)×70 (H)×225 (D) mm (17.3×2.8×8.9 inches)	440 (W)×45 (H)×250 (D) mm (17.3×1.8×9.8 inches)
Weight	3.3 kg (7.3 lbs)	2.8 kg (6.2 lbs)	2.1 kg (4.6 lbs)

## SURROUND PROCESSOR

MODEL	AS-P302
Rated Power Output (2 channel driven) 40–20,000 Hz	25 W/0.3%, 8 ohms at Matrix
Music Power (Both channels)	120 Watts
Power Bandwidth (IHF-3 dB, 8 ohms)	30–40,000 Hz/0.5%
Input Sensitivity/Impedance Source in Tape: VCR, V. Disc (Audio) VCR, V. Disc (Video)	150 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms 1 Vp-p/75 ohms
Dimensions	440 (W)×78 (H)×260 (D) mm (17.3×3.1×10.2 inches)
Weight	4.9 kg (10.8 lbs)

## SOUND PRESENCE CONTROLLER

MODEL	AS-P205
Input Sensitivity/Impedance	Line Input 150 mV/47 kohms Tape 150 mV/47 kohms
Maximum Input Level	2.0 V
Dimensions	440 (W)×60 (H)×225 (D) mm (17.3×2.4×8.9 inches)
Weight	2.0 kg (4.4 lbs)

## REMOTE CONTROL CENTER

MODEL	AS-P202
Input Sensitivity/Impedance	Line Input 150 mV/47 kohms Tape 150 mV/47 kohms VCR/V. Disc/V. Aux (Audio) 150 mV/47 kohms VCR/V. Disc/V. Aux (Video) 1.0 Vp-p/75 ohms
Dimensions	440 (W)×60 (H)×225 (D) mm (17.3×2.4×8.9 inches)
Weight	2.0 kg (4.9 lbs)

## TUNER-AMP.-DECK

MODEL	AC-M512	AC-M312	AC-M310WR	AC-M305W
<Amp. Section> Rated Power Output 40–20,000 Hz	50 W×2/0.3%	40 W×2/0.3%	50 W×2/0.3%	40 W×2/0.3%
Music Power	250 Watts	190 Watts	250 Watts	190 Watts
S/N Ratio (IHF-A) PHONO CD	72 dB 90 dB	72 dB 90 dB	72 dB 90 dB	72 dB 90 dB
Equalizer	±8 dB (63/250 Hz, 1/4/16 kHz)	±8 dB (63/250 Hz, 1/4/16 kHz)	±8 dB (63/250 Hz, 1/4/16 kHz)	±8 dB (63/250 Hz, 1/4/16 kHz)
<FM Tuner Section> Tuning Frequency Range	87.5–108.0 MHz	87.5–108.0 MHz	87.5–108.0 MHz	87.5–108.0 MHz
Usable Sensitivity	12.7 dBf	12.7 dBf	12.7 dBf	12.7 dBf
Capture Ratio	2.0 dB	2.0 dB	2.0 dB	2.0 dB
Selectivity (400 Hz)	60 dB	60 dB	60 dB	60 dB
S/N (Mono/Stereo)	70/60 dB	70/60 dB	70/60 dB	70/60 dB
<MW Tuner Section> Tuning Frequency Range	531–1,602 kHz	531–1,602 kHz	531–1,602 kHz	531–1,602 kHz
Usable Sensitivity	300 µV/m	300 µV/m	300 µV/m	300 µV/m
Selectivity	25 dB	25 dB	25 dB	25 dB
S/N	40 dB	40 dB	40 dB	40 dB
<Deck Section> Motors	Electronically speed controlled DC Motor ×2	Electronically speed controlled DC Motor ×2	Electronically speed controlled DC Motor ×2	Electronically speed controlled DC Motor ×2
Heads	HD Head for recording & playback ×1, Erase Head ×1, HD Head for playback ×1	HD Head for recording & playback ×1, Erase Head ×1, HD Head for playback ×1	HD Head for recording & playback ×1, Erase Head ×1, HD Head for playback ×1	HD Head for recording & playback ×1, Erase Head ×1, HD Head for playback ×1
Distortion	0.8%	0.8%	0.8%	0.8%
Frequency Response Metal CrO <sub>2</sub> Normal	30–16,000 Hz 30–15,000 Hz 30–15,000 Hz	30–16,000 Hz 30–15,000 Hz 30–15,000 Hz	30–16,000 Hz 30–15,000 Hz 30–15,000 Hz	30–16,000 Hz 30–15,000 Hz 30–15,000 Hz
S/N Metal	56 dB Dolby B NR ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	56 dB Dolby B NR ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	56 dB Dolby B NR ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	56 dB Dolby B NR ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz

MODEL	AC-M512	AC-M312	AC-M310WR	AC-M305W
Dimensions	350(W)×263(H)×238(D) mm (13.8×10.4×9.4 inches)	350(W)×263(H)×238(D) mm (13.8×10.4×9.4 inches)	350(W)×263(H)×235(D) mm (13.8×10.4×9.3 inches)	350(W)×263(H)×235(D) mm (13.8×10.4×9.3 inches)
Weight	8.0 kg (17.6 lbs)	7.1 kg (15.6 lbs)	8.0 kg (17.6 lbs)	7.0 kg (15.4 lbs)

MODEL	AC-M300	AC-A400WR	AC-A300W
<Amp. Section> Rated Power Output 40–20,000 Hz	40 W×2/0.3%	50 W×2/0.3%	40 W×2/0.3%
Music Power	190 Watts	250 Watts	190 Watts
S/N Ratio (IHF-A) PHONO CD	72 dB 90 dB	72 dB 90 dB	72 dB 90 dB
Equalizer	±8 dB (63/250 Hz, 1/4/16 kHz)	±8 dB (63/250 Hz, 1/4/16 kHz)	±8 dB (63/250 Hz, 1/4/16 kHz)
<FM Tuner Section> Tuning Frequency Range	87.5–108.0 MHz	87.5–108.0 MHz	87.5–108.0 MHz
Usable Sensitivity	12.7dBf	12.7 dBf	12.7 dBf
Capture Ratio	2.0 dB	2.0 dB	2.0 dB
Selectivity (400 Hz)	60 dB	60 dB	60 dB
S/N (Mono/Stereo)	70/60 dB	70/60 dB	70/60 dB
<MW Tuner Section> Tuning Frequency Range	531–1,602 kHz	531–1,602 kHz	531–1,602 kHz
Usable Sensitivity	300 μV/m	300 μV/m	300 μV/m
Selectivity	25 dB	25 dB	25 dB
S/N	40 dB	40 dB	40 dB
<Deck Section> Motors	Electronically speed controlled DC Motor ×1	Electronically speed controlled DC Motor ×2	Electronically speed controlled DC Motor ×2
Heads	HD Head for recording & playback ×1, Erase Head ×1	HD Head for recording & playback ×1, HD Head for playback ×1, Erase Head ×1	HD Head for recording & playback ×1, HD Head for playback ×1, Erase Head ×1
Distortion	0.8%	0.8%	0.8%
Frequency Response Metal CrO <sub>2</sub> Normal	30–16,000 Hz 30–15,000 Hz 30–15,000 Hz	30–16,000 Hz 30–15,000 Hz 30–15,000 Hz	30–16,000 Hz 30–15,000 Hz 30–15,000 Hz
S/N Metal	56 dB Dolby B NR ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz	56 dB Dolby B NR ON: Improves up to 5 dB at 500 Hz, 10 dB above 5 kHz	56 dB Dolby B NR ON: Improves up to 5 dB at 500 Hz, 10 dB above 5 kHz
Dimensions	350 (W)×263 (H)×235 (D) mm (13.8×10.4×9.3 inches)	440 (W)×263 (H)×235 (D) mm (17.3×10.4×9.3 inches)	440 (W)×263 (H)×235 (D) mm (17.3×10.4×9.3 inches)
Weight	6.5 kg (14.3 lbs)	8.5 kg (18.7 lbs)	7.5 kg (16.5 lbs)

## SPEAKER

MODEL	SW-A90	SW-A70	SW-A301	SW-A201
System	3-Way, 3-Speaker with Passive Radiator	4-Way, 4-Speakers	3-Way, 3-Speakers	3-Way, 3-Speakers
Speakers Woofer Unit	260 mm Square shaped Flat Diaphragm type	300 mm Cone type	300 mm Cone type	250 mm Cone type
Midrange Unit	100 mm Square Shaped Flat Diaphragm type	40 mm Hard Dome type	120 mm Cone type	100 mm Cone type
Tweeter Unit	25 mm Square Shaped Flat Diaphragm type	16 mm Hard Dome type	50 mm Cone type	50 mm Cone type
Other Unit	Passive Radiator, 260 mm Square Shaped Flat Diaphragm type	14 mm Hard Dome type	–	–
Rated Impedance	8 ohms	8 ohms	8 ohms	8 ohms
Maximum Input Power	200 W (DIN: 15 MIN), 390 W (MUSIC)	180 W (DIN: 15 MIN), 300 W (MUSIC)	130 W (DIN: 15 MIN), 240 W (MUSIC)	80 W (DIN: 15 MIN), 135 W (MUSIC)
Sensitivity	More than 90 dB/W	More than 90 dB/W	More than 92 dB/W	More than 90 dB/W
Frequency Range	30 Hz–40 kHz	30 Hz–35 kHz	35 Hz–20 kHz	40 Hz–20 kHz
Enclosure	Passive radiator type	Bass reflex type	Bass reflex type	Bass reflex type
Dimensions	320(W)×750(H)×309(D) mm (12.6×29.5×12.2 inches)	370(W)×680(H)×309(D) mm (14.6×26.8×12.2 inches)	360(W)×750(H)×255(D) mm (14.2×29.5×10 inches)	320(W)×750(H)×255(D) mm (12.6×29.5×10 inches)
Weight	15 kg (33.1 lbs)	15 kg (33.1 lbs)	12 kg (26.4 lbs)	10.4 kg (22.9 lbs)

MODEL	SW-A101	SW-M515	SW-M313	AE-S90
<b>System</b>	3-Way, 3-Speakers	2-Way, 2-Speakers	2-Way, 2-Speakers	Full Range Speaker System with Passive Radiator
<b>Speakers</b>				
<b>Woofers Unit</b>	200 mm Cone type	180 mm Square Shaped Flat Diaphragm type	180 mm Square Shaped Flat Diaphragm type	100 mm Cone type
<b>Midrange Unit</b>	90 mm Cone type	—	—	—
<b>Tweeter Unit</b>	50 mm Cone type	50 mm Square Shaped Flat Diaphragm type	66 mm Cone type	—
<b>Other Unit</b>	—	—	—	100 mm Flat Diaphragm Passive Radiator
<b>Rated Impedance</b>	8 ohms	8 ohms	8 ohms	8 ohms
<b>Maximum Input Power</b>	80 W (DIN: 15 MIN), 135 W (MUSIC)	100 Watts	80 Watts	50 Watts
<b>Sensitivity</b>	More than 90 dB/W	More than 90 dB/W	More than 88 dB/W	More than 88 dB/W
<b>Frequency Range</b>	45 Hz–20 kHz	45 Hz–25 kHz	50 Hz–25 kHz	60 Hz–15 kHz
<b>Enclosure</b>	Bass reflex type	Bass reflex type	Closed type	Passive radiator type
<b>Dimensions</b>	280(W)×610(H)×232(D) mm (11×24×9.1 inches)	260(W)×456(H)×195(D) mm (10.2×18.0×7.7 inches)	230(W)×360(H)×170(D) mm (9.1×14.2×6.7 inches)	140(W)×140(H)×140(D) mm (5.5×5.5×5.5 inches)
<b>Weight</b>	6.7 kg (14.8 lbs)	6.0 kg (13.2 lbs)	4.0 kg (8.8 lbs)	1.0 kg (2.2 lbs)

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