

*Upgrade to*

AIWA for craftsmanship

**AIWA**®

*Audio component  
products*



## MINI SYSTEM M501

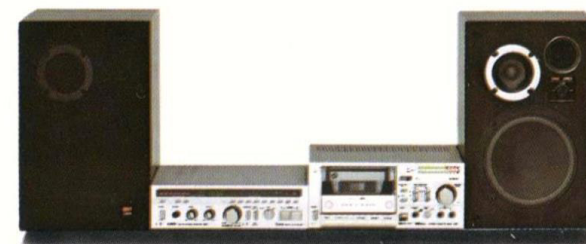


### *The 50 Watt system: For a Touch of Musical Enchantment*

Basic system includes SA-P50 DC power amplifier, SA-C50 preamplifier, ST-R50 synthesizer tuner and SD-L50 cassette deck. Optionals shown include AP-D50 front-

loading turntable, RC-R300 infrared wireless remote control system, MT-50 digital audio timer, SC-E50 3-way loudspeakers and RK-H7 system rack.

## MINI SYSTEM M502



### *The 20 Watt Receiver: Dynamite in a small package*

System is composed of AX-S50 AM/FM stereo receiver and SD-L50 metal-capable cassette deck. Recommended speakers are the 2-way SC-61

## MINI SYSTEM M301



### *The 35 Watt system: Refinement. Ingenuity. Performance.*

Equipped with handsome rack handles as standard, the M-301 system incorporates the SA-P30 DC power amplifier, SA-C30 preamplifier, ST-R30 digital tuner and ultra-compact SD-L30 cassette deck. High-performance SC-E11 loudspeakers are a recommended optional.

## MINI SYSTEM M302



### *The 15 Watt system: For those with an ear for high fidelity*

An integrated amplifier with connections for up to 4 audio components, the SA-A30 combines with ST-R30 tuner and SD-L30 cassette deck to form the core system. Optionals shown include AP-2100 turntable, SC-61 loudspeakers and RK-C45 system rack.

## MINI SYSTEM THE TRAVELER



### *The take-anywhere system: Big sounds, 3-way power operation*

At last: an audio system that works off DC 12 Volt, regular AC, or even with its own optional RB-20 rechargeable battery pack. The Traveler ensemble, which consists of the AA-16 amplifier ST-R22 tuner and SD-L22 deck, can be bolted into the optional CB-20 case, actually a portable audio rack. It's unique combination that's spelled F-U-N!



## ST-R50U

*Quartz Synthesizer Tuner*

### Main features:

- Completely electronic PLL frequency synthesizer tuning
- 6 station preset for AM and FM (total 12)
- AUTO/MANUAL tuning selector
- Digital quartz controlled frequency readout
- High sensitivity, low distortion circuitry
- FM muting, Hi-blend switch
- 5-point signal strength LED indicator

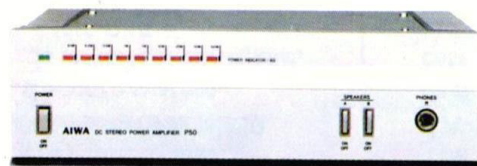


## SA-C50U

*Stereo Preamplifier*

### Main features:

- Very low harmonic distortion – only 0.008% (TUNER, TAPE IN)
- Low noise, low distortion PHONO IC gives outstanding 88 dB S/N ratio (MM), close RIAA adherence  $\pm 0.2$  dB (20~20 kHz)
- Built in head amplifier for MC cartridges
- 1  $\rightarrow$  2 tape system dubbing
- Low filter (6 dB/oct, 30 Hz)
- Click-stop tone controls defeatable at center position
- Mode indicator LEDs
- Loudness compensation
- -20 dB muting switch



## SA-P50U

*DC Stereo Power Amplifier*

### Main features:

- 50 Watts/channel DC amplifier
- Pure complementary SEPP-OCL circuitry for low distortion
- High-stability toroidal power transformer
- 0.01~100 Watts LED power indicator
- Sophisticated self-resetting protection circuit
- A/B speaker system selector
- Stereo headphone jack



## SD-L50U METAL

*Stereo Cassette Deck*

### Main features:

- Full metal tape compatibility
- Very low 0.04% wow & flutter
- Feather-touch IC logic controls
- Auto rewind/repeat mechanism
- Optical Peak LED display
- Dolby\* noise reduction system
- Soft oil-damped cassette eject
- High-performance SH record/playback head
- Front panel microphone inputs

\* Dolby is a trademark of Dolby Laboratories.



## ST-R30U

*AM/FM Stereo Tuner*

### Main features:

- Quartz-controlled 3 or 4 digit frequency display
- PLL-MPX design for stable FM stereo separation
- High sensitivity, low distortion design
- Hi-blend circuit
- 5-LED signal strength indicator
- FM muting/AFC switch
- FM stereo LED
- 75/300 Ohm antenna terminals

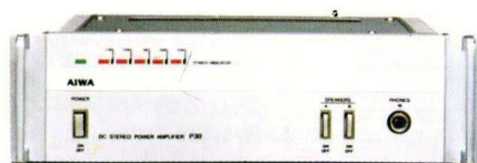


## SA-C30U

*Stereo Preamplifier*

### Main features:

- High-gain IC and ultra low-noise transistor give superb 87 dB signal/noise ratio (MM, PHONO)
- Close  $\pm 0.2$  dB RIAA adherence
- Low-cut filter (6 dB/oct, 30 Hz)
- -20 dB muting switch
- Click-stop tone controls defeatable at center position
- Loudness compensation
- Balance control

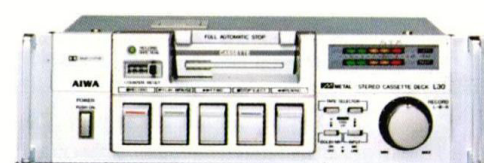


## SA-P30U

*DC Power Amplifier*

### Main features:

- 35 Watts/channel DC power amplifier
- New high  $f_T$  Power transistors
- High-efficiency toroidal power transformer
- 0.1~70 Watts LED power indicator
- BTL (70 Watt – MONO) conversion switch
- Sophisticated protection circuit
- A/B speaker systems selector
- Stereo headphone jack



## SD-L30U

*Stereo Cassette Deck*

### Main features:

- Ultra compact deck with slot-type loading mechanism
- Reinforced heads and circuitry for outstanding recordings on metal cassettes
- Reliable DC servo motor
- 3-color optical peak display
- Full auto stop
- Rear panel stereo mic inputs
- Head cleaning access window



## AX-S50U

Mini receiver

### Main features:

- 20 Watts/ channel AM/FM receiver with low 0.3% THD
- Fully electronic PLL quartz synthesizer tuning
- Random preset of up to 10 AM or FM stations
- 7-point LED peak power/tuning signal strength meter
- FM muting, Loudness controls
- Precision phono equalizer with 80 dB signal/noise ratio
- Front panel headphone jack
- Connections for AUX, TAPE, PHONO



## SA-A30U

Stereo Integrated Amplifier

### Main features:

- Integrated mini amplifier with 15 Watts/channel
- 4-component connection possible
- High-precision phono equalizer with 82 dB signal/noise ratio
- 5-LED peak power indicator
- Loudness compensation
- Quick one-touch speaker connection terminals



## RC-R300U

Infrared Wireless Remote Control System

### Main features:

- Infrared wireless transmitter/ receiver system for M-501, M-502 systems
- Line-of-sight wireless operation up to 20 feet from unit
- Operations include system muting, volume control and mode changes
- Operates all cassette deck functions (SD-L50)
- May be utilized for selection of preset tuner channels or manual up/down tuning (ST-R50, AX-S50)
- Turntable start/stop operation possible (AP-D50)
- "Command checker" display for operation safety

**DIMENSIONS:** 9-7/8(W) x 2-13/16(H) x 10(D) inches (250 x 71 x 253.5 mm)

**WEIGHT:** 5.1 lbs (2.3 kg)



## MT-50U

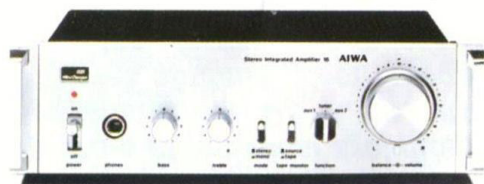
Digital Quartz Audio Timer

### Main features:

- Digital quartz audio timer for M-501, M-502 systems
- Timer display with wake-up alarm signal
- Up to 6 automatic changes of preset tuner channel at desired time (ST-R50)
- Sleep countdown display from 99
- Remaining tape countdown display (SD-L50)
- 2 AC outlets
- Power interruption compensation
- Display dimmer facility

**DIMENSIONS:** 9-7/8(W) x 1-7/16(H) x 10-5/16(D) inches (250 x 36 x 261.5 mm)

**WEIGHT:** 3.5 lbs (1.6 kg)



## AA-16BH

Stereo integrated amplifier with AC/DC power capability. Power output 9 watts/channel



## MT-22H

Digital audio timer with self-adjusting brightness control, sleep countdown shutoff.



## ST-R22BH

AM/FM Stereo tuner with 4-digit LED tuning display, FM muting, Hi-blend



## SD-L22BH

Stereo cassette deck with Dolby\* noise reduction, optical peak display

### The Traveler system accessories.



**CB-20**  
Carrying case

**ANT-10**  
UHF, FM antenna

**RB-20**  
Rechargeable battery pack

**DC-125**  
DC adaptor

**PE-10**  
Phono equalizer

## SYSTEM RACKS



### RK-H7

Full system rack for M-501.



### RK-J7

Swivel-rack for M-501, M-502.



### RK-G35

Tubular chrome rack accommodates all AIWA mini systems.



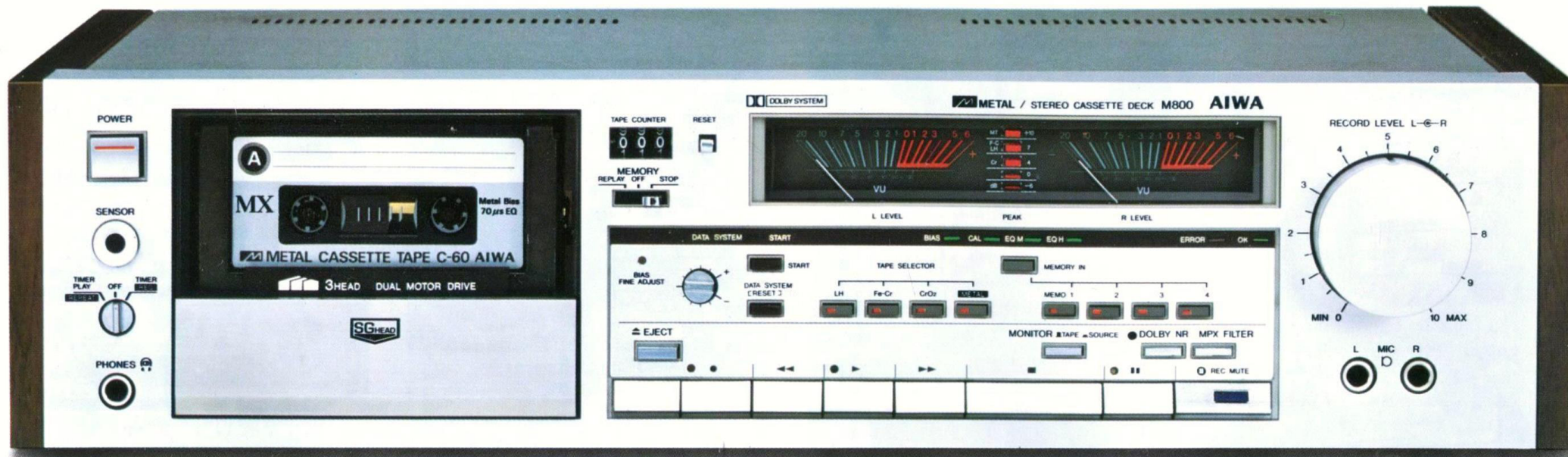
### RK-C45

Simulated walnut vinyl covered wood rack for M-301 and M-302.

### RK-C50

Silver-finish wood rack for M-501, M-502, M-301, M-302 systems.





## AD-M800U METAL

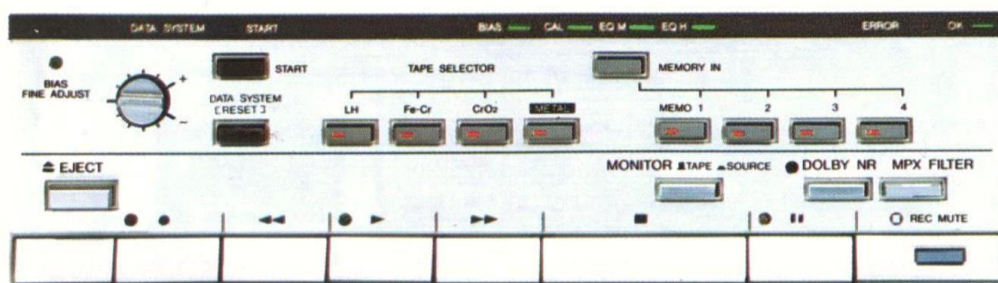
*The logical step up to the pinnacle of cassette performance. Over 15 years of technical evolution have gone into the making of this new model; now DATA, an automatic microcomputer system, achieves optimum electromagnetic compatibility between deck and every tape formulation in less than 30 seconds.*

### Digital Automatic Tape Adaptation (DATA) What it does to ensure top performance:

No professional studio would make a recording without first determining that its equipment was properly "set up" to optimal tape performance levels for such vital parameters as bias, recording sensitivity and equalization. The AD-M800 puts your home recordings in the same class. Once the cassette has been inserted and the AUTO and START buttons depressed, DATA will perform the following adjustments in less than 30 seconds:

1. Compare the tape response to a 6 kHz oscillator signal and adjust recording bias to give the optimum frequency response.
2. Calibrate tape sensitivity according to a 400 Hz signal to ensure that Dolby\* record and playback levels are properly matched.
3. Adjust mid-range (5~10 kHz) and high-range (10~18 kHz) equalization to ensure that playback is free from peaks or dropouts.

For additional accuracy, all measurements are made in 128 separate steps for both right and left channels.



### 3-head system

As DATA operation is a true off-the-tape system, there are no short cuts to recording perfection. The all-Sendust CVC (combination V-cut) head mounted on a rigid 4-point diecast base provides the sensitivity and long-term durability needed for immaculate sound quality.



### Infrared wireless remote transmitter (standard)

All transport functions can be operated up to approximately 26 feet within line-of-sight from the unit. Such functions as PAUSE and REC-MUTE even allow remote-controlled editing during recording.

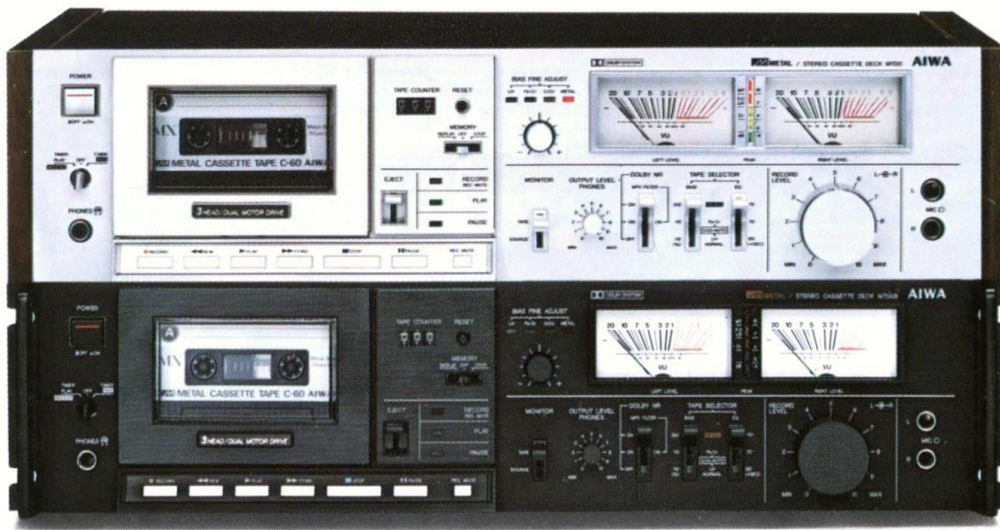


### Deluxe IC logic operation

Unlike earlier types of solenoid mechanisms which operated with a pronounced "spongy" feeling due to their use of rubber as conductive material, the AD-M800U employs switches with a new type of metal contact that gives a more authoritative feeling of control. Stroke is a mere 1 mm — far shorter than awkward, mechanical keys and yet "just right" for positive operation. IC control also permits direct changeover from one mode to another; mechanical mode changes are only carried out after the split-second electronic logic switching gives the go-ahead.

### PLUS:

- Dual motor drive system
- Direct coupled record amplifier
- Double-Dolby\* noise reduction system
- Manually adjustable bias control
- Continuous auto repeat and memory replay
- Front panel headphone and mic inputs
- Rec-mute edit control
- Soft oil-damped cassette eject
- Simulated walnut side panels included



## AD-M700U/AD-M700BU METAL

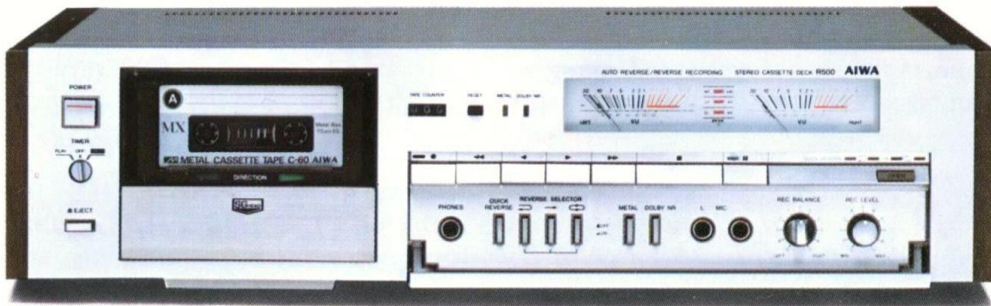
When you can appreciate — and enjoy — dealing with the complexities of cassette recording, you'll see why this 3-head model's metal performance offers so many extra advantages. Available in your choice of black or silver cabinet.

### Sendust CVC Head

Having introduced the original V-cut design on its top-of-the-line model AD-6900, AIWA has continued to refine head performance with this high-density, high-linearity all-Sendust unit. The unique "V-cut" along the core of the playback head gap plays a positive role in flattening out temperamental low-range response by causing the signals to generate multiple wavelengths. These cancel out the low-frequency roughness (contour effect) for smooth reproduction free from bumps or dropouts. Record and playback head gaps are set at  $4\mu$  and  $1\mu$  respectively, the ideal widths needed to provide low-noise recordings with extended frequency playback response.

### PLUS:

- Fully variable bias ends tape/deck incompatibility
- IC logic control
- Dolby\* noise reduction with switchable MPX filter
- 5-step peak-reading LEDs (-6 to +10 dB)
- Rec-mute edit control
- Timer standby and player-sync function
- Adjustable headphone jack output level
- Soft and maintenance
- Separate R/L channel record level control
- 3-position bias/eq selectors and auto CrO<sub>2</sub> tape switching
- Standard silver (U-type) supplied with decorator panels; black (BU-type) is equipped with audio handles



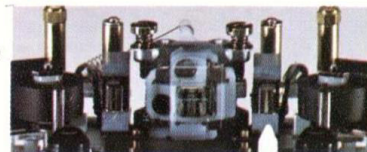
## AD-R500U METAL

Presenting AIWA's all-new radial-pivot quick reverse mechanism: True bi-directional recording and playback with a nearly instantaneous 0.4 second reverse time.

### No-delay auto reverse — high performance too

More than just bi-directional recording and playback; more than the split-second quick reverse operations — the AD-R500 is a high performance model capable of a remarkably wide 20 to 19,000 Hz frequency response from metal tapes.

New 180° radial-pivot head mechanism incorporates a photoelectric sensor which activates the instant the edge of the leader tape is detected. For optimum bi-directional compatibility, rotary head system ensures that the same left and right channels are matched in the head core.



### Choice of 3 transport modes

For flexible recording and playback, the AD-R500 can be set to a choice of three possible modes.

- REC PB recording or playback of 1 side of tape
- ↔ recording or playback of 1 cycle of both sides
- ↻ continuous playback of both sides

SETTING	REC	PB	FUNCTION
→	<input type="radio"/>	<input type="radio"/>	1-side of tape only
↔	<input type="radio"/>	<input type="radio"/>	1 cycle of both sides
↻	<input type="radio"/>	<input type="radio"/>	continuous playback of both sides

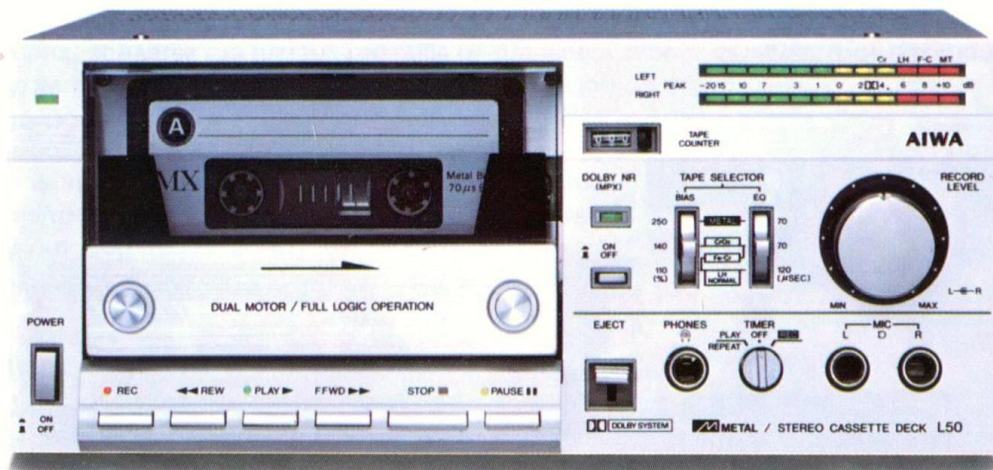
### Ultra-modern styling

For a clean, eye-catching appearance, Metal, Dolby\*, auto-reverse mode switches, microphone inputs and record level controls are concealed behind the hinged panel. As with the cassette compartment, panel opening and closing is oil-damped for smooth operation.



### PLUS:

- Feather-touch IC logic controls
- High-performance Sendust Guard Head
- Back-lit VU meters and 3-step peak LEDs
- Tape direction and mode setting indicators
- Smooth oil-damped cassette eject and control panel hinge
- Rec level, Rec balance controls
- Auto LH/CrO<sub>2</sub> tape selection
- Simulated walnut side panels included
- RC-11 remote control unit available as an optional accessory

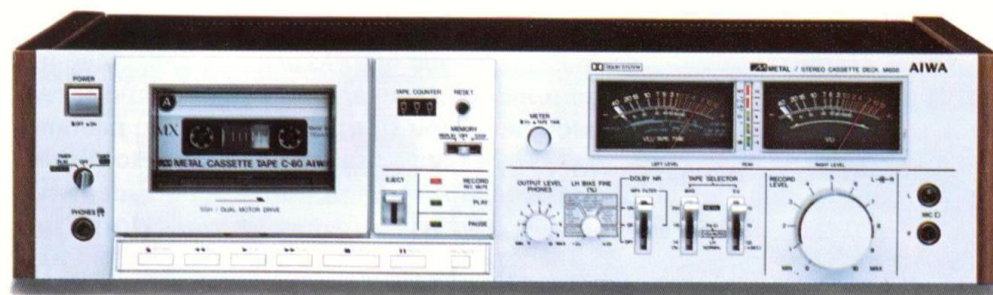


## SD-L50U METAL

*Feather-touch logic controls and metal compatibility from a front loading deck just 9-7/8 inches across, 4-1/4 inches high.*

### Dual Motor Drive

An incredibly compact design barely half the width of conventional decks, the SD-L50 nonetheless incorporates the same 2-motor Dual Motor Drive System perfected in AIWA's top of the line models. Wow and flutter at 0.04%, is so low as to be audibly insignificant.



## AD-M600U METAL

*AIWA has created the AD-M600 for the kind of controllability you can see as well as feel; a deck that's completely comfortable in your home system.*

### Heads that measure up to metal's demands

With the radical modifications in the record and erase circuitry needed to make the deck metal-compatible, previously acceptable head technology is no longer adequate. The head of the AD-M600 is composed of a new type of Sendust, a material with an extremely high flux density that makes it ideal for handling the powerful 250% bias current of metal recording. AIWA's exclusive Sendust Guard Head has been carefully designed to preserve the gap edge from cave-in, a condition that leads to noticeable sonic deterioration. Erasure efficiency is also



### Feather-touch logic controls

Activated by a stroke of just 0.3 mm, the SD-L50 requires only the lightest touch to make mode changes. Record and play controls are equipped with their own LED indicators.

### Auto Rewind/Repeat Play Operation

With the selector switch, set to the PLAY/REPEAT position, continuous repeat play of the side of a cassette will be performed automatically until halted manually.

### Mini — a great new approach to hi-fi enjoyment

The SD-L50 is just one of the high quality components which make up AIWA's M-501 and M-502 Mini Systems — two of the world's most modern contributions to state-of-the-art electronics. See them at your AIWA dealer soon.

### Main features:

- Optical peak LED display (-20~+10 dB)
- High performance SH head
- Front panel mic and headphone inputs
- Dolby\* noise reduction system
- Timer standby mechanism (record/play)
- Smooth oil-damped cassette eject
- Rec-sync operation with AIWA turntables

given a strong boost; the High-Bs erase head features two gaps, so oxide tapes as well as metal will benefit from the extra erasure power

### Accurate tape time meter

Recording is no pleasure when you find yourself squinting at the last few fractions of an inch of tape on a rapidly turning supply wheel, trying to guess whether you should stop now or try to squeeze in one more entry. The AD-M600 offers an easy solution; a switchable display contained in the left VU meter which gives you the time in minutes remaining on the tape. Accurate within 30 seconds, the time remaining meter operates with all lengths of tapes and reel sizes.

### Electronic operation means more convenience

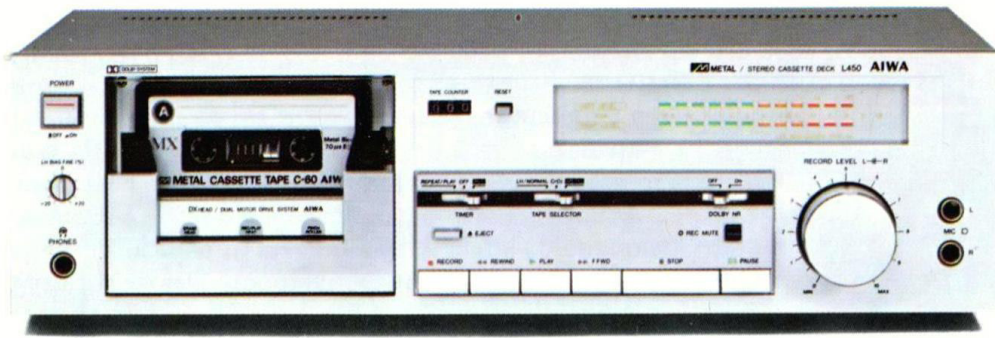
Memory rewind — stop/replay

After the digital counter has been reset to "000" to establish the place from where replay is desired, the tape will stop automatically when the counter rewinds to "999"

A 2-position switch gives you the option of memory stop or memory replay. For continuous uninterrupted playback of one side of the cassette, auto replay capability is also provided.

### PLUS:

- Dolby\* noise reduction with switchable MPX filter
- Short-stroke IC logic controls
- Bias fine adjust for LH tapes
- 5-point peak-reading LEDs (-6~+10 dB)
- Dual motor drive mechanism
- Gentle oil damped cassette eject
- Auto CrO<sub>2</sub> tape bias/EQ switching
- Adjustable headphone output level
- Simulated walnut side panels included



## AD-L450U METAL

High performance, smart design and remarkable value are some of the reasons why the AD-L450 has so much to offer. An irresistible buy to those who know and appreciate AIWA quality.

### Metal tape compatibility with new DX head

Metal tape performance on some "metal compatible" decks is only marginal at best. That's why AIWA has equipped the AD-L450 with its newly developed DX head. Composed of a unique new configuration of laminated layers of epoxy resin and reinforced permalloy — plus an durable guard section of high-



density sendust — testing has proved the DX head to be ideal for the extra demands made by metal recording, and design greatly extends usable life, ends problems of irregular wear

### Optical peak display

To keep in tune with its up-to-the-minute image, the AD-L450 dispenses with traditional mechanical type meters to give you amazingly responsive accuracy, free from delay or overshoot. The 12-point LED display gives -20 to +10 dB readout of peak-level inputs. Horizontal bar-graph design permits quick left/right channel comparison, and the 3-color green-yellow-red sequence gives clear visual warning when recording inputs approach the distortion level.

### Dual motor drive with IC logic controls

High-efficiency 2-motor tape transport design permits ultra-slim 4-3/4" cabinet height, holds wow & flutter to extra-low 0.04% (WRMS). "Feather-touch" IC logic controls with short 1 mm stroke facilitate mode switching.

### PLUS:

- Rec-mute edit facility
- Bias fine adjust for LH tapes
- New slide-type tape selector
- Dolby\* noise reduction system
- Timer standby mechanism
- Electronic full auto stop
- Front panel mic, headphone jacks
- Soft oil-damped cassette eject



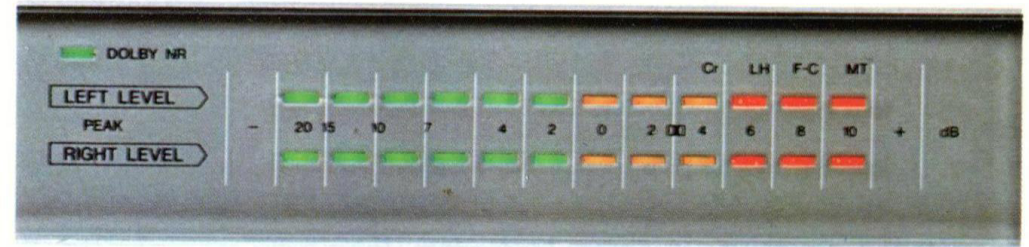
## AD-L300U METAL

A flexible metal-capable deck with plenty of convenient features, the AD-L300 exemplifies AIWA's dedication to producing a home component deck that's as easy to operate as it is to enjoy.

### Optical Peak Display

Thanks to their rapid "attack" time, light emitting diodes (LEDs) have proved to be ideal for display of brief transient peaks present in the signal material which might otherwise go ignored by needle-type VU meters. By setting the recording input level so that the highest signal never exceeds the saturation level of the tape (+10 dB for METAL, for instance, or +4 dB for CrO<sub>2</sub>), you can

make tapes with the highest possible signal to noise ratio without worrying about exceeding tape saturation levels.



### Quick Music Sensor facility

Any way you worked it, program location was always a time-consuming hassle with previous deck models. That's why for convenience alone the AD-L300 is hard to beat. Its built-in QMS — a special device which detects the non-recorded blank segments between entries on the tape — means speedy, automatic program location at the touch of a button. Large, easy-to-read digital display indicates the tape position during music sensor operation, counting down from a maximum of 9 programs.

### PLUS:

- LH Bias fine adjustor
- Rec-mute edit control
- Cue/review operation
- Dolby\* noise reduction system
- Full auto stop
- Front panel mic, headphone jacks
- Mechanical pause
- Independent bias/EQ selector switches



## AD-M250U METAL

Your budgetary limits are no reason to miss out on the future. Outstanding value and performance, with metal tape capability for those special recordings you want to preserve at their best.

### Main features:

- Bias fine adjuster for LH tapes
- Cue and review; mechanical pause
- Dolby noise reduction with built-in MPX filter
- Input selector switch (Line/Mic)
- Separately adjustable L/R channel recording levels
- Ultra-hard Permalloy head
- Dolby, Record indicator LEDs



## HR-50H High-Com\*\* Unit

A compact outboard noise reduction unit based on AEG-Telefunken's world-famous professional compander system. AIWA believes that with the introduction of High-Com, recordists will no longer regard 8 to 10 dB of noise reduction as the acceptable standard and will begin to think in terms of the much greater capability this system offers.

### What is High-Com?

Based on the TELECOM system developed by AEG Telefunken for professional recording applications, High-Com is a modified noise reduction system which can be easily adapted to home audio applications. Along with an overall reduction in tape hiss and other noise, a High-Com encoded tape is remarkably free from audible coloration, degradation of transient response and presence of "breathing" noise. Another point in which High-Com differs from other systems is that it suppresses noise not only in the higher frequencies — where



## AD-M100U

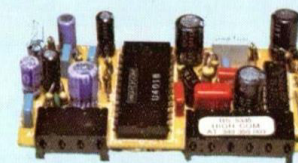
Superb sound can be simplicity itself. A no-nonsense approach to high fidelity reproduction for the budding audiophile — or anyone who wants reliability and ease of use without any sacrifice in the basics.

### Main features:

- Automatic Normal/CrO<sub>2</sub> tape selection
- Quick cue and review facility
- Full auto stop
- Mechanical pause control
- Smooth oil-damped cassette eject
- Dolby\* and record indicator LEDs
- Independent left and right record level controls
- Line/Mic input selector switch
- Ultra-hard Permalloy head

tape hiss is most noticeable — but across the entire frequency band. Thus "breathing" noise, the audible evidence of noise reduction system at work, is eliminated with no sacrifice in quality of transient signals.

### High-Com compander circuit



### Basic operation

To reduce the presence of noise in the recorded signal, High-Com compresses the input's dynamic range to 1/2 of its original level during recording, then expands the signal to twice its original level during playback. By this any noise remaining in the signal is lowered to an almost insignificant level. Overall improvement in signal/noise ratio is in the neighborhood of 20 to 25 dB, and dynamic range increased to as high as 100 dB.

### PLUS:

- Compact, functional design
- High-Com pass position
- Calibration with built-in test signal
- Separate L, R record volume controls
- Switchable MPX filters
- Compatible with nearly all cassette and open reel units

\*\* High-Com noise reduction system manufactured under license from AEG-Telefunken  
 \*\* High-Com is a trademark of AEG-Telefunken

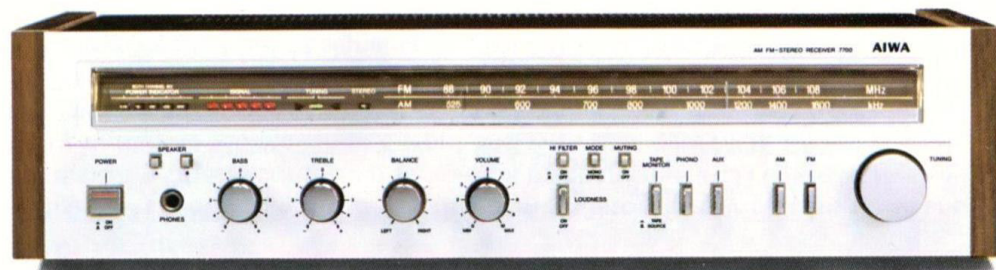


## AX-7800U

*Tired of those oversized "monster" receiver units? Here's a completely new concept that banishes bulk with a sim, streamlined profile. Great looks, great sounds and the unmistakable prestige of a top-quality AIWA audio component.*

### DC amplifier design

Putting out a powerful 60 Watts per channel into 8 Ohms, the AX-7800 incorporates state-of-the-art DC power in a 3-stage differential direct coupled power amplifier. Total harmonic distortion, at a miniscule 0.05% (Both channels driven, 20 to 20,000 Hz), is reduced to inconsequential levels. Moreover, both the equalizer and tone control amplifier stages feature low-noise plus-minus split power supply ICs, ensuring improved signal/noise performance and low distortion.



## AX-7700U

*Boasting a particularly "strong" 40 watts per channel, RMS, this receiver incorporates all the refinements needed for effortless enjoyment of home stereo sound, in a good-looking modern cabinet design.*

### Main features:

- Solid 40 watts/channel power output (8 ohms, 20 ~ 20,000 Hz, with T.H.D. 0.08%)
- Convenient 3-point LED tuning indicator
- A/B speaker systems selector
- TAPE/SOURCE monitor switch
- Loudness control
- Front-panel headphone jack
- Hi-filter
- FM Muting, FM stereo indicator LED

### Quartz-locked synthesizer tuning

You'll see the tuned-in station frequency at a glance, thanks to the extra large 1/2 inch 3 or 4 digit LED display. With this model, AIWA has eliminated the traditional mechanical variable tuning capacitor and its rotary knobs to give you full electronic tuning: Now the PLL frequency synthesizer tunes in precisely to the desired station either manually or automatically. A high-stability quartz oscillator in the FM front end locks the tuned frequency for drift-free reception. A "hold-scan" feature is also provided to give you an automatic, 5 second station-to-station preview of broadcasts in progress.



### Memory Preset means tuning at a touch

The AX-7800's synthesizer can be preset for up to 6 stations in both FM and AM bands. Once a station has been tuned and programmed to its preset selection number (displayed by a readout from 1 to 6), you'll be able to tune it in instantly at the touch of the corresponding button.

### PLUS:

- Combination power/signal LED display
- Selectable bass/treble turnover frequencies
- Soft-touch mode selectors with individual LED indicators
- Tape/Source monitor switch
- Loudness control
- A/B speaker systems selector
- FM stereo indicator LED
- Simulated walnut side panels



## AX-7300U

*AIWA knows that the mark of true value in a receiver is how it lives up to the user's expectations. Here's an economical model that won't let them down. With 25 Watts per channel (RMS) of practical, satisfying sound.*

### Main features:

- Power output 25 watts/channel (8 ohms, 20 ~ 20,000 Hz, with T.H.D. 0.08%)
- 3-point LED tuning and 5-point signal strength indicators
- Loudness control
- Loudness control
- A/B speaker system selector
- FM muting
- TAPE/SOURCE monitor switch
- AUX and PHONO connector jacks
- Bass, treble, balance controls
- FM stereo indicator LED

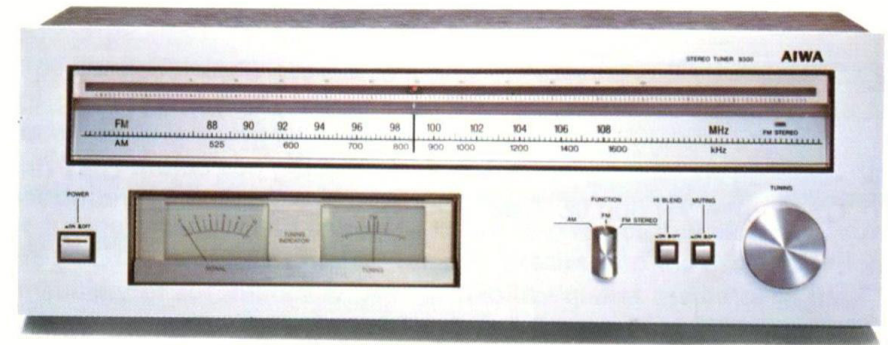


## AT-9700U

*A beautifully-crafted component incorporating the most innovative design features, this tuner's unparalleled FM performance assures uncompromised sound excellence.*

### Main features:

- Quartz PLL-MPX circuitry
- Gating demodulator greatly reduces noise and distortion
- Quartz-controlled servo-lock mechanism
- AUTO/MANUAL selectivity switching
- Metal-chassis front and with dual-gate MOS FET
- Digital frequency tuning display at 100 kHz steps, plus linear dial scale
- Ten-point LED quality indicator permits optimum positioning of antenna
- Three-point fine tuning and 10-point signal strength LED indicators
- Built-in recording level check oscillator assures proper tape recording input levels

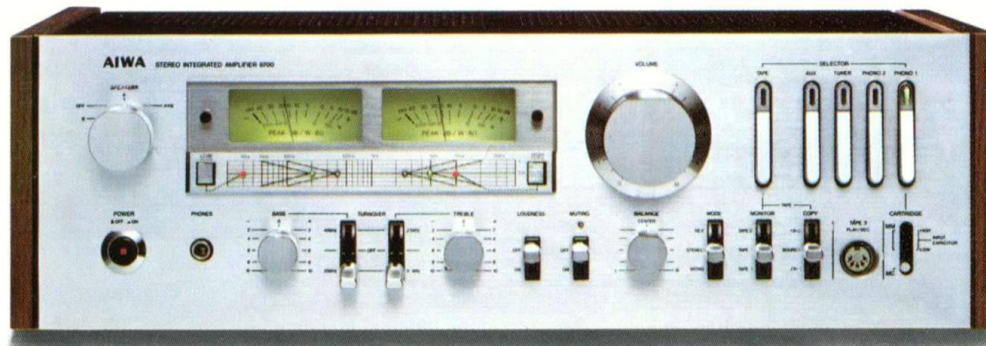


## AT-9300U

*With the wide variety of high-quality stereo programs available to the home listener, it's easy to understand why FM has become such a popular medium of sound. This tuner's designed to bring in broadcasts the way they should be: with minimal drift, noise and distortion. An outstanding example of AIWA's reputation for better cost/performance.*

### Main features:

- Low-distortion PLL-MPX circuitry
- Dual gate MOS FET front end
- FM muting
- Functional signal tuning meters
- 76/300 ohm type antenna terminals
- Hi-blend control
- Balanced flywheel action tuning knob for smooth rotation
- FM stereo indicator LED

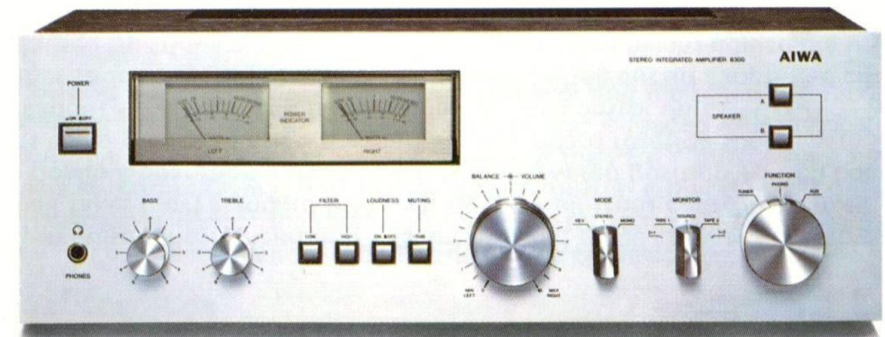


## AA-8700U

*With full DC circuitry for clean, distortion-free power, the all-new AA-8700 integrated amplifier is a top-class performer with features audiophiles are sure to appreciate.*

### Main features:

- Efficient 75 watts/channel RMS output power (0.02% Total Harmonic Distortion, 8 ohms)
- Built-in MC head amplifier
- Selectable turnover frequencies with tone defeat
- Logarithmic compression power peak meters
- New easy-to-read 6-LED indicator displays turnover frequency and filter settings
- Two-system tape dubbing facility
- Large soft-touch mode selector switches with LED indicators
- -20 dB Muting switch



## AA-8300U

*Exotic amplifiers can scramble to outdo one another in sophistication, but nothing has been able to alter the definition of good, basic audio performance. Here's a capable, low-distortion integrated amplifier with great value and a satisfying range of controls.*

### Main features:

- Powerful 45 watts/channel output (0.1% Total Harmonic Distortion, 8 ohms)
- Two unit tape connection with 1-2, 2-1 dubbing
- -15 dB Muting control
- Negative-feedback click-stop tone controls
- Loudness control
- Low & high filters
- Logarithmic peak power meters
- Simple one-touch speaker connectors
- A/B speaker systems selector



## LP-3000U

*Don't let your investment in a turntable be compromised by the self-defeating designs of traditional tonearms. Here's beauty and unmatched quality to be sure, but just as important. AIWA knows how to apply the principles that can really make a difference.*

### **Straight-line tracking — for the ultimate in record enjoyment**

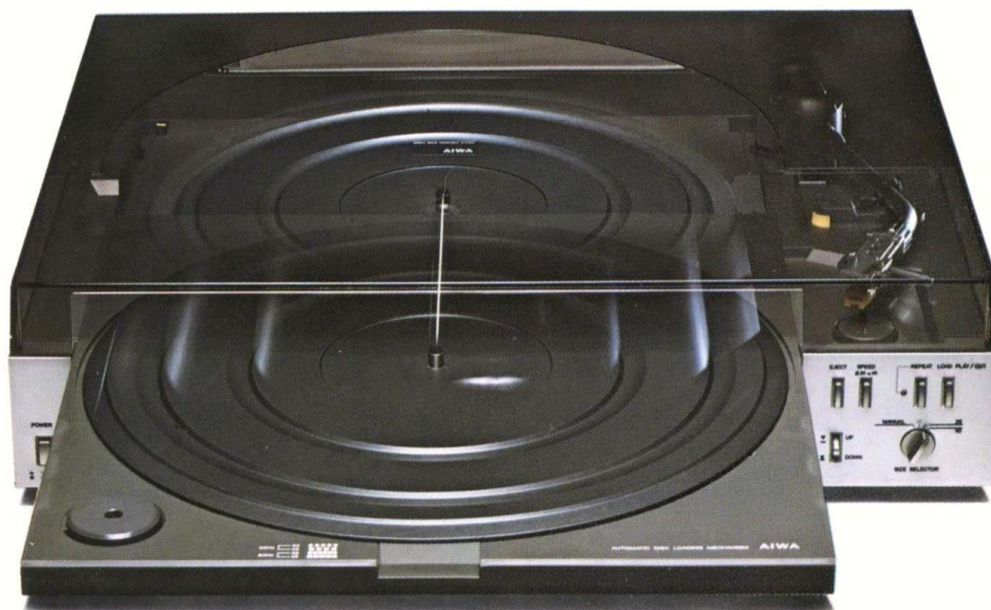
Far from being a new gimmick, straight-line tracking follows the most basic premise in disc reproduction: follow the original path of the cutting head and stylus tracking will be minimized. With its lateral-tracking "linear" arm, the LP-3000 maintains the ideal stylus angle throughout record play, thus virtually eliminating distortion-causing tracking error and inside force.

### **Zinc diecast arm with two independent motors**

Because the LP-3000's linear arm can disregard such factors as overhang and offset angle, it is able to make use of a short but extremely rigid zinc diecast material, reducing the arm's susceptibility to torsion and acoustic feedback from the headshell. The arm incorporates two independent coreless motors: one for the lateral rack-screw drive mechanism and a second for positive raising and lowering action.

### **PLUS:**

- Built-in "disc-sensor" headshell
- Quartz-locked speed control
- Removable headshell takes most standard MM cartridges
- Full front control arrangement makes possible operation with dust cover in a lowered position
- Pitch control permits up to plus or minus 6% variation of standard rotation speed, with large LED readout
- Remote jack for optional remote control unit (RC-20)
- Feather-touch electronic controls
- Built-in muting circuit suppresses click noise caused by stylus contact
- Resonance-absorbing height-adjustable insulator feet
- Rec-sync operation when connected with AD-M800 or other specified AIWA cassette deck models



## AP-D50U

*A completely new concept in hi-fi component design: the world's first automatic front-loading turntable. Whether you're aiming for convenience or performance, the ingenuity of the AP-D50 is hard to best.*

### **Front loading operation**

After setting the disc on the loading tray and selecting the speed and record size, the operator presses the PLAY button and the disc is loaded into playing position by a separate motor. Another touch of the PLAY button and play commences automatically. Pressing the EJECT button either during or after play operation will eject the disc gently forward for removal. The dust cover may be left completely undisturbed during these operations.

### **Manual operation**

Manual arm operation can even be performed with the dust cover shut; an arm carrier lever located on the front panel permits positioning of the arm while it is raised from the record surface.

### **High performance direct-drive motor**

For accurate rotation speed completely free from cogging or other undesirable effects the AP-D50 employs a 4-phase 8-pole linear torque motor with a frequency generator type speed detector. This compares the motor rotation speed to a standard rotation frequency and makes needed correction virtually instantaneously. Wow and flutter is held to a very low 0.028% (WRMS) and rumble, another result of improved motor design, is a superb 75 dB (DIN-B).

### **Other features:**

- Photoelectric auto return mechanism
- Sensitive J-shaped static balance arm
- Heavy 1.3 kg aluminum diecast platter
- Rec-sync operation with most AIWA cassette decks
- Dense anti-resonance resin compound chassis material
- Adjustable pitch control ( $\pm 3\%$ )
- Built-in stylus cleaning brush



## AP-D30H

Known as the "Space Saver", the semi-automatic AP-D30's original compact design and full front operation has captured the attention of audiophiles from coast to coast.



## AP-2100H

An affordable way to give you the convenience of AIWA's exclusive player synchronization, plus all the basic features needed for record enjoyment.

### Main features:

- Extra-stable synchronous AC motor
- Low 0.07% (WRMS) wow and flutter
- Removable universal type
- High compliance MM cartridge included
- Static balanced J-shaped arm
- Adjustable anti skating
- Heavy, vibration absorbing

### Linear-torque motor

Employing only one-fourth the parts of other servo-motors, the linear torque motor eliminates cogging through a slotless design which allows torque to be applied in a perfectly circular "linear" pattern. This results in smooth rotation with considerably less friction and noise than traditional DC motors. Wow & flutter is held below 0.035% (WRMS).

### Unique space-saving design

Although the tone arm and platter conform to standard dimensions, the unconventional design permits the most compact overall size of any direct-drive player on the market. The full adjustability of the four insulator feet permits stable positioning on even a very narrow base. Insulator height can also be individually adjusted. In addition, the elevated back panel lets you set the player nearly flush against the wall without interfering with the action of the dust cover

### PLUS:

- High-sensitivity S-shaped tonearm
- Exclusive automatic disc-to-cassette automatic recording feature with most AIWA decks
- Adjustable pitch control  $\pm 3\%$
- Anti-skating adjustor
- Damped cueing
- Free-stop dust cover
- Easy to read stroboscope design

rubber mat • Damped cueing • Removable plastic dust cover • Solid, howl resistant cabinet

### Rec-sync: AIWA's exclusive system for automatic synchronized recording between turntable and cassette deck

Had it with record dubbing that resembles a Keystone Cops routine? Instead of dashing madly back and forth between controls on the deck, amplifier and turntable, let Rec-sync do the work automatically. Here's how:

1. After using the VU meters and peak LEDs to determine the correct recording input level, set the cassette deck to the RECORD/PAUSE mode.
2. Position the stylus above the disc (not necessary for automatic turntable models) and start play. As soon as the stylus touches the disc, recording begins automatically.
3. At the end of disc play (or if the cueing lever is used to raise the arm at any time during play) recording will stop automatically and the deck will return to the RECORD/PAUSE mode.\*

Check out this unique system — featured on selected AIWA cassette decks and turntables — at your audio dealer's.

\* For models AD-L300 and AD-M250, tape motion must be halted manually.



# SPECIFICATIONS

## STEREO CASSETTE DECKS

	AD-M800U	ADM700 U.BU	AD-R500U	SD-L50U	AD-M600U	AD-L450U	AD-L300U	AD-M250U	AD-M100U	
<b>POWER CONSUMPTION</b>	26 watts	20 watts	35 watts	18 watts	24 watts	18 watts	12 watts	10 watts	10 watts	
<b>POWER SOURCE</b>	AC 120V, 50/60 Hz	AC 120V, 60 Hz	AC 120V, 50/60 Hz	AC 120, 50/60 Hz	AC 120V, 50/60 Hz	AC 120V, 50/60 Hz	AC 120V, 50/60 Hz	AC 120V, 60 Hz	AC 120V, 50/60 Hz	
<b>DIMENSIONS</b>	18-5/8(W) x 4-3/4(H) x 11-13/16(D) inches (472 x 120 x 300 mm)	18-5/8(W) x 4-3/4(H) x 11-13/16(D) inches (472 x 120 x 300 mm)	18-5/8(W) x 4-3/4(H) x 12-15/16(D) inches (472 x 120 x 287 mm)	9-7/8(W) x 4-1/4(H) x 10(D) inches (250 x 107 x 254 mm)	18-5/8(W) x 4-3/4(H) x 11-13/16(D) inches (472 x 120 x 300 mm)	16-9/16(W) x 4-3/4(H) x 11(D) inches (420 x 120 x 279 mm)	16-9/16(W) x 5-3/4(H) x 11-1/2(D) inches (420 x 145 x 292 mm)	16-9/16(W) x 5-15/16(H) x 11-1/2(D) inches (420 x 150 x 292 mm)	16-9/16(W) x 5-15/16(H) x 11-1/2(D) inches (420 x 150 x 292 mm)	
<b>WEIGHT</b>	20.9 lbs (9.5 kg)	16.8 lbs (7.6 kg)	22.5 lbs (6.8 kg)	9.9 lbs (4.5 kg)	16.8 lbs (7.6 kg)	11.5 lbs (5.2 kg)	10.4 lbs (4.7 kg)	9.9 lbs (4.5 kg)	9.9 lbs (4.5 kg)	
<b>FREQUENCY RESPONSE</b>										
<b>OVU</b>	<b>CrO<sub>2</sub> TAPE</b>	25~8,000 Hz ( $\pm\frac{1}{3}$ dB)	25~8,000 Hz ( $\pm\frac{1}{3}$ dB)	25~8,000 Hz ( $\pm\frac{1}{3}$ dB)	30~8,000 Hz ( $\pm\frac{1}{3}$ dB)	30~8,000 Hz ( $\pm\frac{1}{3}$ dB)	30~8,000 Hz ( $\pm\frac{1}{3}$ dB)	30~8,000 Hz	30~8,000 Hz	
	<b>METAL TAPE</b>	25~12,500 Hz ( $\pm\frac{1}{3}$ dB)	25~12,500 Hz ( $\pm\frac{1}{3}$ dB)	25~12,500 Hz ( $\pm\frac{1}{3}$ dB)	30~12,500 Hz ( $\pm\frac{1}{3}$ dB)	30~12,000 Hz ( $\pm\frac{1}{3}$ dB)	30~12,500 Hz ( $\pm\frac{1}{3}$ dB)	30~12,500 Hz	30~12,500 Hz	
<b>-20VU</b>	<b>LH TAPE</b>	20~17,000 Hz 30~15,000 Hz ( $\pm\frac{1}{3}$ dB)	20~16,000 Hz 30~13,000 Hz ( $\pm\frac{1}{3}$ dB)	20~16,000 Hz 30~13,000 Hz ( $\pm\frac{1}{3}$ dB)	25~15,000 Hz 30~13,000 Hz ( $\pm\frac{1}{3}$ dB)	20~16,000 Hz 30~13,000 Hz ( $\pm\frac{1}{3}$ dB)	20~15,000 Hz 30~13,000 Hz ( $\pm\frac{1}{3}$ dB)	25~14,000 Hz 30~12,500 Hz ( $\pm\frac{1}{3}$ dB)	25~14,000 Hz 30~12,500 Hz ( $\pm\frac{1}{3}$ dB)	25~14,000 Hz 30~12,500 Hz ( $\pm\frac{1}{3}$ dB)
	<b>CrO<sub>2</sub> TAPE</b>	30~16,000 Hz ( $\pm\frac{1}{3}$ dB)	20~18,000 Hz 30~15,000 Hz ( $\pm\frac{1}{3}$ dB)	20~18,000 Hz 30~15,000 Hz ( $\pm\frac{1}{3}$ dB)	25~17,000 Hz 30~15,000 Hz ( $\pm\frac{1}{3}$ dB)	20~18,000 Hz 30~15,000 Hz ( $\pm\frac{1}{3}$ dB)	20~17,000 Hz 30~15,000 Hz ( $\pm\frac{1}{3}$ dB)	25~16,000 Hz 30~14,000 Hz ( $\pm\frac{1}{3}$ dB)	25~16,000 Hz 30~14,000 Hz ( $\pm\frac{1}{3}$ dB)	25~14,000 Hz 30~14,000 Hz ( $\pm\frac{1}{3}$ dB)
	<b>FeCr TAPE</b>	20~20,000 Hz 30~16,000 Hz ( $\pm\frac{1}{3}$ dB)	20~18,000 Hz 30~16,000 Hz ( $\pm\frac{1}{3}$ dB)			20~18,000 Hz 30~16,000 Hz ( $\pm\frac{1}{3}$ dB)			25~16,000 Hz 30~14,000 Hz ( $\pm\frac{1}{3}$ dB)	

	METAL TAPE	20~20,000 Hz 30~17,000 Hz ( $\pm\frac{1}{3}$ dB)	20~19,000 Hz 30~17,000 Hz ( $\pm\frac{1}{3}$ dB)	20~19,000 Hz 30~17,000 Hz ( $\pm\frac{1}{3}$ dB)	25~17,000 Hz 30~16,000 Hz	20~19,000 Hz 30~17,000 Hz ( $\pm\frac{1}{3}$ dB)	20~19,000 Hz 30~16,000 Hz ( $\pm\frac{1}{3}$ dB)	25~16,000 Hz 30~14,000 Hz ( $\pm\frac{1}{3}$ dB)	25~16,000 Hz 30~14,000 Hz ( $\pm\frac{1}{3}$ dB)	
<b>S/N RATIO (DOLBY ON)</b>		68 dB (FeCr tape)	65 dB (FeCr)	65 dB (Metal)	64 dB (Metal)	65 dB (FeCr)	65 dB (Metal)	62 dB (FeCr)	60 dB (FeCr)	60 dB (LH tape)
<b>WOW AND FLUTTER (WRMS)</b>		0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.06%	0.06%	0.07%
<b>FAST FORWARD AND REWIND TME (C-60 TAPE)</b>		90 sec	90 sec	70 sec	90 sec	90 sec	90 sec	80 sec	80 sec	80 sec
<b>HEAD</b>		REC/PB combination V-cut Sendust Guard Head (SGH) Erase: Hi-Bs double-gap Ferrite Head	REC/PB combination V-cut Sendust Guard Head (SGH) Erase: Hi-Bs double-gap Ferrite Head	REC/PB: Sendust Guard head Erase: Double-gap Sendust Head	REC/PB: SH head Erase: Hi-Bs double-gap Ferrite Head	REC/PB: Sendust Guard Head (SGH) Erase: Hi-Bs double-gap Ferrite Head	REC/PB: DX head Erase: Hi-Bs double-gap Ferrite Head	REC/PB: Hard Permalloy head Erase: Hi-Bs double-gap Ferrite Head	REC/PB: Ultra-hard Permalloy head Erase: Hi-Bs double-gap Ferrite Head	Ultra-hard Permalloy head
<b>MOTOR</b>		24 pulse FG servo motor DC motor x 1	24 pulse FG servo motor x 1 DC motor x 1	24 pulse FG servo motor x 1 DC motor x 1	DC servo motor x 1 DC motor x 1	DC servo motor x 1 DC motor x 1	DC servo motor x 1 DC motor x 1	DC servo motor	DC servo motor	DC servo motor
<b>INPUT SENSITIVITY IMPEDANCE</b>	<b>MIC</b>	0.3 mV/200 ohms~ 10 kohms	0.3 mV/200 ohms~ 10 kohms (Usable)	0.3 mV/200 ohms~ 10 kohms	0.3 mV/200 ohms~ 10 kohms	0.3 mV/200 ohms~ 10 kohms (Fit)	0.3 mV/200 ohms~ 10 kohms	0.3 mV/200 ohms~ 10 kohms	0.3 mV/200 ohms~ 10 kohms	0.3 mV/3 kohms (200 ohms~10 kohms usable)
	<b>LINE IN</b>	50 mV/50 kohms	50 mV/50 kohms	50 mV/50 kohms	50 mV/50 kohms	50 mV/50 kohms	50 mV/50 kohms	50 mV/50 kohms	50 mV/50 kohms	50 mV/50 kohms
	<b>DIN</b>									
<b>OUTPUT LEVEL IMPEDANCE</b>	<b>LINE OUT</b>	0.41V/50 kohms	0.41V/50 kohms	0.41V/50 kohms	0.41V/50 kohms	0.41V/50 kohms	0.41V/50 kohms	0.41V/50 kohms	0.41V/50 kohms	0.41V/50 kohms
	<b>DIN</b>									
	<b>HEAD-PHONE</b>	2 mW/8 ohms	2 mW/8 ohms	0.8 mW/8 ohms	0.8 mW/8 ohms	2 mW/8 ohms	0.8 mW/8 ohms	0.8 mW/8 ohms	0.8 mW/8 ohms	0.8 mW/8 ohms

**MINI SYSTEM COMPONENTS AM/FM STEREO TUNERS**

	ST-R50U	ST-R30U	ST-R22BH
<b>FM SECTION FREQUENCY RANGE</b>	FM: 87.5 MHz~108MHz	FM: 87.5 MHz~108MHz	FM: 87.5 MHz~108MHz
<b>50 dB QUIETING SENSITIVITY</b>	Mono: 4.5 $\mu$ V (18.2 dBf), Stereo: 45 $\mu$ V (58.2 dBf)	Mono: 4.5 $\mu$ V (18.2 dBf), Stereo: 43 $\mu$ V (37.9 dBf)	Mono: 4.5 $\mu$ V (18.2 dBf), Stereo: 43 $\mu$ V (37.9 dBf)
<b>USABLE SENSITIVITY</b>	Mono: 1.9 $\mu$ V (10.8 dBf)	Mono: 1.9 $\mu$ V (10.8 dBf)	1.9 $\mu$ V (10.8 dBf)
<b>S/N RATIO</b>	Mono: 75 dB, Stereo: 72 dB	Mono: 73 dB, Stereo: 70 dB	Mono: 73 dB, Stereo: 70 dB
<b>CAPTURE RATIO</b>	1.5 dB	1.5 dB	1.5 dB
<b>TOTAL HARMONIC DISTORTION</b>	Mono: 0.1% (1 kHz), Stereo: 0.25% (1 kHz)	Mono: 0.1%, Stereo: 0.25%	Mono: 0.1%, Stereo: 0.25%
<b>SELECTIVITY</b>	35 dB ( $\pm$ 300 kHz), 65 dB ( $\pm$ 400 kHz)	70 dB ( $\pm$ 400 kHz)	70 dB (400 kHz)
<b>FREQUENCY RESPONSE</b>	30 Hz~15,000 Hz (+0.5 dB, -1.5 dB)	30~15,000 Hz (+0.5 dB, -1.5 dB)	30 Hz~15,000 Hz (+0.5 dB, -1.5 dB)
<b>SPURIOUS REJECTION RATIO</b>	90 dB	80 dB	80 dB
<b>AM SUPPRESSION RATIO</b>	55 dB	55 dB	55 dB
<b>STEREO SEPARATION</b>	45 dB (1 kHz)	45 dB (1 kHz)	45 dB (1 kHz)
<b>AM SECTION FREQUENCY RANGE</b>	AM: 525 kHz~1,605 kHz	AM: 520 kHz~1,605 kHz	AM: 520 kHz~1,605 kHz
<b>AM SENSITIVITY</b>	250 $\mu$ V/m (Bar antenna), 30 $\mu$ V (Ext. antenna)	250 $\mu$ V/m (Bar antenna), 20 $\mu$ V (Ext. antenna)	250 $\mu$ V/m (Bar antenna), 20 $\mu$ V (Ext. antenna)
<b>POWER SOURCE</b>	AC: 120V (50/60 Hz)	AC: 120V, 50/60 Hz	AC: 120V/240V, 50/60 Hz DC: 12V
<b>DIMENSIONS</b>	9-7/8(W) x 2-13/16(H) x 11-1/16(D) inches (250 x 71 x 280 mm)	8-5/16(W) x 2-13/16(H) x 9(D) inches (210 x 71 x 254.5 mm)	8-5/16(W) x 2-13/16(H) x 8(D) inches (210 x 71 x 203 mm)
<b>WEIGHT</b>	5.3 lbs (2.4 kg)	4.6 lbs (2.1 kg)	4.4 lbs (2.0 kg)

**STEREO PREAMPLIFIERS**

	SA-C50U	SA-C30U
<b>S/N RATIO</b>	Phono (MM): 88 dB, Phono (MC): 70 dB Tuner AUX 1, AUX 2, Tape input 103 dB	Phono (MM): 87 dB Tuner AUX: 98 dB
<b>RIAA DEVIATION</b>	$\pm$ 0.2 dB (20 Hz~20 kHz)	$\pm$ 0.2 dB (20 Hz~20 kHz)
<b>INPUT SENSITIVITY/IMPEDANCE</b>	Phono (MM): 2.5 mV/47 kohms Phono (MC): 0.25 mV/100 ohms Tuner, AUX 1, 2: 150 mV/47 kohms Tape input 1, 2: 150 mV/47 kohms	Phono (MM): 2.5 mV/47 kohms Tuner, AUX AUX 2 150 mV/47 kohms
<b>PHONO MAXIMUM INPUT VOLTAGE</b>	MM: 200 mV (at 1 kHz, T.H.D. 0.1%) MC: 20 mV (at 1 kHz, T.H.D. 0.1%)	MM: 200 mV (at 1 kHz, T.H.D. 0.1%)
<b>OUTPUT VOLTAGE/IMPEDANCE</b>	Tape: 150 mV/47 kohms Pre: 0.9 V/47 kohms	Tape: 150 mV/47 kohms Pre: 0.8 V/47 kohms

**DC POWER AMPLIFIERS**

	SA-P50U	SA-P30U
<b>POWER OUTPUT</b>	50 Watts per channel, Min. RMS at 8 ohms, from 20 Hz~20 kHz, with no more than 0.02% T.H.D.	35 Watts per channel, Min. RMS at 8 ohms, from 20~20,000 Hz, with no more than 0.05% T.H.D.
<b>TOTAL HARMONIC DISTORTION</b>	0.01% (50W, 8 ohms, 1 kHz)	0.01% (35W, 8 ohms, 1 kHz)
<b>INPUT SENSITIVITY/IMPEDANCE</b>	800 mV/(47 kohms)	800 mV/47 kohms
<b>POWER BAND WIDTH</b>	10 Hz~50 kHz (T.H.D. 0.05%)	10 Hz~50 kHz (Distortion under 0.05%)
<b>S/N RATIO</b>	115 dB	115 dB (IHF A curve short circuit)
<b>DAMPING FACTOR</b>	40 (at 1 kHz)	50 (at 1 kHz)

	SA-C50U	SA-C30U
<b>TONE CONTROL</b>	Bass: $\pm$ 10 dB (at 50 Hz) Treble: $\pm$ 10 dB (at 20 kHz)	Bass: $\pm$ 9 dB (100 Hz) Treble: $\pm$ 7 dB (10 kHz)
<b>LOW FILTER</b>	30 Hz, 6 dB/oct	30 Hz, 6 dB/oct
<b>LOUDNESS</b>	+6 dB (100 Hz) +3 dB (20 kHz)	+7 dB (100 Hz) +3.5 dB (10 kHz)
<b>MUTING</b>	-20 dB	-20 dB
<b>POWER SOURCE</b>	AC 120V, 50/60 Hz	AC: 120V, 50/60 Hz
<b>DIMENSIONS</b>	9-7/8(W) x 2-13/16(H) x 10-3/16(D) inches (250 x 71 x 257.5 mm)	8-5/16(W) x 2-13/16(H) x 9-1/16(D) inches (210 x 71 x 228.5 mm)
<b>WEIGHT</b>	4.9 lbs (2.2 kg)	3.8 lbs (1.75 kg)

**INTEGRATED AMPLIFIERS**

	SA-A30U	AA-A16BH
<b>OUTPUT POWER</b>	15W + 15W at 8 ohms from 20~20,000 Hz with no more than 1% distortion	9 Watts per channel Min. RMS at 4 ohms, from 50 Hz~20 kHz, with no more than 1% total harmonic distortion
<b>TOTAL HARMONIC DISTORTION</b>	1%	1%
<b>POWER BANDWIDTH</b>	20 Hz~20 kHz (at 8 ohms, T.H.D. 1%)	30 Hz~30 kHz at 8 ohms (both channels drive total harmonic distortion 1%)
<b>FREQUENCY RESPONSE</b>	10 Hz~70 kHz $\pm$ 3.5 dB	20 Hz~50 kHz $\pm$ 3 dB
<b>S/N RATIO</b>	Phono: 82 dB Tuner and AUX: 95 dB	Tuner, Tape, AUX 1 & AUX 2: 87 dB
<b>DAMPING FACTOR</b>	More than 25	30 dB
<b>INPUT SENSITIVITY/IMPEDANCE</b>	Phono: 2.5 mV/47 kohms Tuner AUX and Tape Monitor: 150 mV/47 kohms	150 mV/47 kohms
<b>PHONO MAXIMUM INPUT VOLTAGE</b>	150 mV/47 kohms	
<b>RIAA DEVIATION</b>	+0.2 dB (20~20,000 Hz)	
<b>TONE CONTROL</b>	Bass: $\pm$ 10 dB at 100 kHz Treble: $\pm$ 8 dB at 10 kHz	Bass: $\pm$ 12 dB at 100 Hz Treble: $\pm$ 10 dB at 10 kHz
<b>POWER CONSUMPTION</b>		23 Watts
<b>POWER SOURCE</b>	120V, 50/60 Hz	AC: 120, 50/60 Hz, DC: 12V
<b>DIMENSIONS</b>	8-5/16(W) x 2-13/16(H) x 9(D) inches (250 x 71 x 227.5 mm)	8-5/16(W) x 2-13/16(H) x 8(D) inches (210 x 71 x 203 mm)
<b>WEIGHT</b>	7.0 lbs (3.15 kg)	6.0 lbs (2.7 kg)

	SA-P50U	SA-P30U
<b>CIRCUITRY</b>	DC amp	DC amp
<b>POWER SOURCE</b>	AC: 120V, 50/ Hz	AC: 120V, 50/ Hz
<b>DIMENSIONS</b>	9-7/8(W) x 2-13/16(H) x 9-3/4(D) inches (250 x 71 x 247.5 mm)	8-5/16(W) x 2-13/16(H) x 8-9/16(D) inches (210 x 71 x 217 mm)
<b>WEIGHT</b>	11.9 lbs (5.4 kg)	8.8 lbs (4 kg)

**STEREO CASSETTE DECKS**

	SD-L30U	SD-L22BH
<b>WOW AND FLUTTER</b>	0.09% (WRMS)	0.09% (WRMS)
<b>S/N RATIO</b>	60 dB (Dolby on)	60 dB (Dolby on)
<b>FREQUENCY RESPONSE</b>	25~14,000 Hz (LH) 25~16,000 Hz (CrO <sub>2</sub> ) 25~16,000 Hz (Metal)	25~14,000 Hz (LH) 25~16,000 Hz (CrO <sub>2</sub> )
<b>HEAD</b>	REC/Pb: Hard Permalloy Head Erase: Hi-Bs double gap ferrite head	Hard Permalloy Head
<b>MOTOR</b>	DC servo motor	DC servo motor
<b>INPUT SENSITIVITY/IMPEDANCE</b>	MIC: 0.3 mV/200 ohms~10 kohms LINE IN: 50 mV/50 kohms	MIC: 0.3 mV/200 ohms~10 kohms LINE IN: 50 mV/50 kohms
<b>OUTPUT LEVEL/IMPEDANCE</b>	LINE OUT: 0.41V/50 kohms	LINE OUT: 0.41V /50 kohms
<b>POWER SOURCE</b>	AC: 120V, 50/60 Hz	AC: 120V/240V, 50/60 Hz DC: 12V
<b>DIMENSIONS</b>	8-5/16(W) x 2-7/8(H) x 9-1/16(D) inches (210 x 72 x 229 mm)	8-5/16(W) x 2-7/8(H) x 7-7/8(D) inches (210 x 73 x 200mm)
<b>WEIGHT</b>	6.2 lbs (2.8 kg)	6.0 lbs (2.7 kg)

**MINI RECEIVERS**

	AX-S50U	
<b>AMPLIFIER SECTION</b>		
<b>OUTPUT POWER</b>	20 Watts per channel, Min. RMS at 8 ohms from 20 Hz~20 kHz, with no more than 0.3% T.H.D.	<b>S/N RATIO</b> Mono: 75 dB Stereo: 70 dB
<b>TOTAL HARMONIC DISTORTION</b>	0.3% (at effective power output 8 ohms)	<b>SELECTIVITY</b> 65 dB ( $\pm$ 400 kHz)
<b>POWER BANDWIDTH</b>	10 Hz~40 kHz (T.H.D. 0.5%)	<b>TOTAL HARMONIC DISTORTION</b> Mono: 0.15% Stereo: 0.3%
<b>DAMPING FACTOR</b>	30	<b>STEREO SEPARATION</b> 40 dB (at 1000 Hz)
<b>S/N RATIO</b>	80 dB (Phono), 90 dB (Aux 1, Tape input)	<b>POWER SOURCE</b> 120V, 50/60 Hz
<b>RIAA DEVIATION</b>	$\pm$ 0.5 dB (30 Hz~15 kHz)	<b>DIMENSIONS</b> 9-7/8(W) x 2-13/16(H) x 12-1/2(D) inches (250 x 71 x 316 mm)
<b>FM SECTION</b>		<b>WEIGHT</b> 3.6 kg (7.9 lbs)
<b>USABLE SENSITIVITY</b>	2.0 $\mu$ V (11.2 dBf)	
<b>50 dB QUIETING SENSITIVITY</b>	Mono: 4.5 $\mu$ V (18.2 dBf) Stereo: 45 $\mu$ V (38.2 dBf)	

## INTEGRATED AMPLIFIERS

	AA-8700U	AA-8300U
<b>CIRCUITRY</b>	Direct coupled DC pre & main amplifier	
<b>OUTPUT POWER</b>	75 watts per channel, Min. RMS at 8 ohms from 20 Hz to 20 kHz, with no more than 0.02% Total Harmonic Distortion	45 watts per channel, Min. RMS at 8 ohms from 20 Hz to 20 kHz, with no more than 0.15% T.H.D.
	85 watts per channel, Min. RMS at 4 ohms from 20 Hz to 20 kHz, with no more than 0.02% Total Harmonic Distortion	50 watts per channel, Min. RMS at 4 ohms from 20 Hz to 20 kHz, with no more than 0.15% T.H.D.
<b>TOTAL HARMONIC DISTORTION</b>	0.02% (at 75 watts 8 ohms), 0.01% (at 40 watts 8 ohms)	0.15% (continuous rated power output)
<b>INTERMODULATION DISTORTION</b>	0.02% (at 75 watts 8 ohms)	0.15% (continuous rated power output)
<b>POWER BANDWIDTH</b>	5 Hz~50 kHz (less than 0.03%)	10 Hz~40 kHz
<b>FREQUENCY RESPONSE</b>	5 Hz~100 kHz (+0, -3 dB)	10 Hz~45 kHz (+0.2, -2.0 dB)
<b>S/N RATIO (IHF A Curve)</b>	Phono (MM) 83 dB, Phono (MC) 70 dB, TUNER 100 dB, AUX 100 dB, TAPE 100 dB	Phono 80 dB, TUNER 91 dB, AUX 91 dB, TAPE 91 dB
<b>DAMPING FACTOR</b>	more than 60 (at 8 ohms, 20 Hz~20 kHz)	more than 45 (at 8 ohms, 20 Hz~20 kHz)
<b>CHANNEL CROSSTALK</b>	Phono 50 dB (at 1 kHz), AUX 60 dB (at 1 kHz), TUNER 60 dB (at 1 kHz)	AUX 45 dB (1 kHz), TAPE IN 45 dB (1 kHz)
<b>INPUT SENSITIVITY (IMPEDANCE)</b>	Phono (MC) 200 mV/10 ohms, TUNER 150 mV/47 kohms, AUX 150 mV/47 kohms, TAPE 150 mV/47 kohms, DIN 150 mV/47 kohms, Main in 0.8 V/47 kohms	Phono 2.5 mV/47 kohms, AUX 15 mV/47 kohms, TAPE 1: 150 mV/47 kohms, TAPE 2: 150 mV/47 kohms
<b>PHONO MAXIMUM INPUT VOLTAGE</b>	280 mV (MM) (at 1 kHz, T.H.D. 0.02%)	130 mV (MM) (at 1 kHz, T.H.D. 0.5%)
<b>RIAA DEVIATION</b>	±0.2 dB (30 Hz~15 kHz)	±0.3 dB (30 Hz~15 kHz)
<b>TONE CONTROL</b>	Bass: 20 Hz ±8 dB (at 200 Hz, Turnover Frequency), 50 Hz ±8 dB (at 400 Hz, Turnover Frequency) Trebles: 20 Hz ±10 dB (at 2.5 kHz, Turnover Frequency), 40 Hz ±10 dB (at 5 kHz, Turnover Frequency)	Bass: 100 Hz, ±10 dB (at 400 Hz, Turnover Frequency) Trebles: 10 kHz ±10 dB (at 2.5 kHz, Turnover Frequency)
<b>FILTERS</b>	Low: 30 Hz, 12 dB/oct, High: 10 kHz, 12 dB/oct	[Low: 30 Hz, 12 dB/oct, High: 10 kHz, 12 dB/oct
<b>OUTPUT VOLTAGE AND IMPEDANCE</b>	TAPE 150 mV/47 kohms, DIN 30 mV/80 kohms, Pre 0.8 V/47 kohms, Headphone 0.25 mW/W (Load impedance 4~16 ohms), Speaker 4~16 ohms (A, B), 8~16 ohms (A + B)	TAPE 280 mV/kohms, DIN 100 mV/90 kohms, Headphone 4~16 ohms, Speaker 4~16 ohms (A, B), 8~16 ohms (A + B)
<b>POWER CONSUMPTION</b>	260 watts	150 watts
<b>POWER SOURCE</b>	AC 120V, 50/60 Hz	AC 120V, 60 Hz
<b>DIMENSIONS</b>	18.9/16(W) x 6.3/16(H) x 14.13/15(D) inches (470 x 156 x 375 mm)	16.9/16(W) x 5.15/16(H) x 13(D) inches (420 x 150 x 330 mm)
<b>WEIGHT</b>	38.4 lbs (17.4 kg)	20.9 lbs (9.5 kg)

## COMPONENT TUNERS

		AT-9700U	AT-9300U
<b>ANTENNA TERMINALS</b>		300 ohms (balanced) 75 ohms (unbalanced)	300 ohms (balanced) 75 ohms (unbalanced)
<b>FREQUENCY RANGE</b>		FM: 87.5 MHz~108 MHz	
<b>50 dB QUIETING SENSITIVITY</b>	MONO	15.3 dBf (normal) 15.3 dBf (sharp)	18 dBf
	STEREO	35.3 dBf (normal) 35.3 dBf (sharp)	38 dBf
	IHF	10.3 dBf (normal) 12.8 dBf (sharp)	10.8 dBf
	S/N 30 dB	0.9µV (normal) 0.7µV (sharp)	
<b>USABLE SENSITIVITY</b>		110 dB	48 dB
<b>IMAGE REJECTION</b>		110 dB	70 dB
<b>SPURIOUS REJECTION RATIO</b>		65 dB	48 dB
<b>AM SUPPRESSION RATIO</b>		1.0 dB (normal) 20 dB (sharp)	1.5 dB
<b>SELECTIVITY</b>	±200 kHz	20 dB (sharp)	
	±300 kHz	20 dB (normal) 70 dB (sharp)	
	±400 kHz	50 dB (normal) 80 dB (sharp)	72 dB
<b>S/N RATIO 75 kHz deviation (IHF)</b>	MONO	80 dB	73 dB
	STEREO	78 dB	68 dB
<b>DISTORTION (1 kHz, mono 75 kHz deviation, stereo 67.5 kHz deviation, pilot 6 kHz)</b>	MONO	0.03% (normal) 0.2% (sharp)	0.2%
	STEREO	0.05% (normal) 0.5% (sharp)	0.3%
<b>STEREO SEPARATION</b>	at 1 kHz at 50 Hz~10 kHz	50 dB (normal) 30 dB (sharp) 40 dB (normal) 25 dB (sharp)	42 dB 32 dB (at 30 Hz to 15 kHz)
<b>POWER CONSUMPTION</b>		28 watts	12 watts
<b>POWER SOURCE</b>		120V, 50/60 Hz	120V, 50/60 Hz
<b>DIMENSIONS</b>		18.9/16(W) x 6.3/16(H) x 14.13/16(D) inches (470 x 156 x 375 mm)	16.9/16(W) x 5.15/16(H) x 13.13/16(D) inches (420 x 150 x 350 mm)
<b>WEIGHT</b>		21.2 lbs (9.6 kg)	9.3 lbs (4.2 kg)

## STEREO RECEIVERS

	AX-7800U	AX-7700U	AX-7300U
<b>AMPLIFIER SECTION</b>			
<b>OUTPUT POWER</b>	60 watts per channel, Min. RMS at 8 ohms, from 20 Hz to 20 kHz, with no more than 0.05% T.H.D.	40 watts per channel, Min. RMS at 8 ohms, from 20 Hz to 20 kHz, with no more than 0.08% T.H.D.	25 watts per channel, Min. RMS at 8 ohms, from 20 Hz to 20 kHz, with no more than 0.08% T.H.D.
<b>TOTAL HARMONIC DISTORTION</b>	0.05% (continuous rated power output)	0.08% (continuous rated power output)	0.08% (continuous rated power output)
<b>FREQUENCY RESPONSE</b>	30 Hz~15 kHz ±0.5 dB (PHONO) 10 Hz~50 kHz ±1 dB (AUX, TAPE)	30 Hz~15 kHz ±0.5 dB (PHONO) 20 Hz~30 kHz ±1 dB (AUX, TAPE)	30 Hz~15 kHz ±0.5 dB (PHONO) 20 Hz~30 kHz ±1 dB (AUX, TAPE)
<b>S/N RATIO</b>	80 dB (PHONO) 95 dB (AUX, TAPE)	72 dB (PHONO) 90 dB (AUX, TAPE)	72 dB (PHONO) 90 dB (AUX, TAPE)
<b>DAMPING FACTOR</b>	50 (at 8 ohms, 20 Hz~20 kHz)	30 (at 8 ohms, 20 Hz~20 kHz)	30 (at 8 ohms, 20 Hz~20 kHz)
<b>TUNER</b>			
<b>USABLE SENSITIVITY (FM)</b>	1.9 µV, 10.8 dBf	2 µV, 11.2 dBf	2 µV, 11.2 dBf
<b>50 dB QUIETING SENSITIVITY</b>	mono: 4 µV, 17.2 dBf stereo: 40 µV, 37.2 dBf	mono: 4 µV, 17.2 dBf stereo: 40 µV, 38 dBf	mono: 4 µV, 17.2 dBf stereo: 44 µV, 38 dBf
<b>S/N RATIO (75 kHz, deviation)</b>	mono: 75 dB stereo: 70 dB	mono: 73 dB stereo: 68 dB	mono: 73 dB stereo: 68 dB
<b>DISTORTION</b>	mono: 0.1% stereo: 0.2%	mono: 0.25% stereo: 0.4%	mono: 0.25% stereo: 0.4%
<b>ALTERNATE CHANNEL SELECTIVITY</b>	70 dB (at 400 kHz)	65 dB (at 400 kHz)	65 dB (at 400 kHz)
<b>STEREO SEPARATION</b>	47 dB (at 1 kHz)	40 dB (at 1 kHz)	40 dB (at 1 kHz)
<b>DIMENSIONS</b>	20.7/8(W) x 17.3/8(H) x 4.3/4(D) inches (530 x 440 x 120 mm)	18.5/8(W) x 4.3/4(H) x 14.13/16(D) inches (472 x 120 x 375 mm)	16.9/16(W) x 6.1/16(H) x 13.5/8(D) inches (420 x 153 x 345 mm)
<b>WEIGHT</b>	2.4 lbs (11.1 kg)	22.5 lbs (10.2 kg)	18.7 lbs (8.5 kg)

(\*Dolby is a trademark of Dolby Laboratories.)

\* Specifications and design are subject to change without notice.

All AIWA audio component products feature a limited two-year warranty on parts and labor

## STEREO TURNTABLES

	LP-3000U	AP-D50U	AP-D30H	AP-2100H
<b>TURNTABLE SECTION</b>				
<b>DRIVE SYSTEM</b>	Quartz PLL direct drive system	Direct drive system	Direct drive system	Belt-drive system
<b>MOTOR</b>	Pulse synthesizer quartz PLL servo motor	4 phase, 8 pole linear torque DC Hall motor	2 phase, 10 pole DC servo motor	4 pole hysteresis synchronous motor
<b>TURNTABLE PLATTER</b>	Zinc diecast, diameter 12.1/4" (31 cm) weight 7.1 lbs (3.2 kg)	Aluminum alloy diecast (30 cm) weight 1.3 kg	Aluminum diecast (30.6 cm) weight 1.2 kg	Aluminum diecast 11.13/16" (30 cm)
<b>SPEEDS</b>	33-1/3 and 45 rpm	33-1/3 and 45 rpm	33-1/3 and 45 rpm	33-1/3 and 45 rpm
<b>VARIABLE PITCH CONTROL</b>	±6%	±3%	±3%	
<b>WOW AND FLUTTER</b>	0.025% (WRMS)	0.028% (WRMS)	0.035% (WRMS)	0.07% (WRMS) 0.14% (DIN)
<b>S/N RATIO</b>	60 dB (IEC-B curve)	60 dB (IEC-B curve) 75 dB (DIN B curve)	60 dB (IEC B curve) 70 dB (DIN B curve)	62 dB (DIN-B)
<b>TONERARM SECTION</b>				
<b>TYPE</b>	Linear tracking, static balanced tonearm	Static balanced type	Static balanced type	Static balanced type
<b>EFFECTIVE ARM LENGTH</b>	7.3/16" (182 mm)	8.1/2" (215 mm)	8.1/2" (215 mm)	8.3/8" (212 mm)
<b>OVERHANG</b>	0" (0 mm)	5/8" (15 mm)	5/8" (15 mm)	9/16" (13 mm)
<b>TRACKING ERROR ANGLE</b>	+0.25°, -0.25°	+1.4°, -3.6°	+3°, -1.5°	+5°, -0.8°
<b>OFFSET ANGLE</b>	0°	25.1°	23°	21°
<b>TRACKING FORCE RANGE</b>	0~3g	0~3g	0~4g	0~4g
<b>USABLE CARTRIDGE WEIGHT</b>	4~15g	3.5~8.5g	3.5~8g	3.5~8.5g
<b>GENERAL</b>				
<b>POWER SOURCE</b>	AC 120V, 50/60 Hz	AC 120V, 50/60 Hz	AC 110~120/220~240V, 50/60 Hz	AC 110/120V/220~240V, 50/60 Hz
<b>POWER CONSUMPTION</b>	20 watts	9 watts	6 watts	9 watts
<b>DIMENSIONS</b>	18.15/16(W) x 5.15/16(H) x 17.5/16(D) inches (480 x 150 x 439 mm)	17.3/4(W) x 4.3/16(H) x 14.13/16(D) inches (450 x 106.5 x 375 mm)	16.3/4(W) x 4.7/8(H) x 14.3/8(D) inches (424 x 123 x 364 mm)	17.3/8(W) x 5.5/16(H) x 14.5/16(D) inches (440 x 134 x 363 mm)
<b>WEIGHT</b>	33.5 lbs (15.2 kg)	15.9 lbs (7.2 kg)	15.2 lbs (6.9 kg)	13.2 lbs (6 kg)

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