AIWA Simply Advanced
Mini Component Systems

AIWA for craftsmanship
AIWA
AIWA AMERICA INC.
AIWA Mini Systems:
Refined to the Essence of Hi-fi Perfection
AIWA's top-rated system:
A Full Measure of Performance from Components Sized for Enjoyment

Low-distortion "PLUS A class" circuitry
Newly incorporated into the amplifier circuitry, AIWA's "PLUS A class" is an original system which provides the low distortion of Class A amplifiers with the efficiency of Class B units. This is achieved by a new idler current circuit which maintains current to keep the power transistors on at all times as the positive and negative halves of the waveform are driven separately. "PLUS A class"amp. reduces harmonic distortion to an inconsequential figure: 0.006% or less, even at rated power output.

Direct-coupled design
Of course the SA-P80 is a full "DC" amplifier, with direct-coupled SEPP-OCL circuitry for an incredibly wide, flat frequency response. Along with a voltage regulator circuit in the pre-drive block, stable current flow and minimal magnetic flux is assured by a high-efficiency toroidal power transformer. Output for both channels is indicated by an LED logarithmic peak indicator in nine steps from 0.05 to 100 Watts.

PLUS:
- A/B Speaker connection terminals
- Power ON indicator
- Stereo headphone jack

SA-P80U SPECIFICATIONS
POWER OUTPUT: 50 Watts per channel, Min. RMS at 8 ohms, from 20Hz - 20kHz, with no more than 0.03% T.H.D.
TOTAL HARMONIC DISTORTION: 0.003% (at 1kHz, 50 Watts, 8 ohms)
POWER BANDWIDTH: 10Hz - 50kHz (T.H.D. 0.03%)
FREQUENCY RESPONSE: 10Hz - 100kHz (:1 dB)
S/N RATIO: 116dB
DAMPING FACTOR: 50 (at 1kHz, 8 ohms)
INPUT SENSITIVITY IMPEDANCE: 900mV/47k ohms
OUTPUT LEVEL IMPEDANCE:
Headphone 1mW/1W, 8 ohms
Speaker A/B 8 - 16 ohms
A + B 16 ohms
POWER SOURCE: 120V, 60Hz
DIMENSIONS: 9-7/8(W) x 2-13/16(H) x 9-7/8(D) inches (250 x 71 x 250.5mm)
WEIGHT: 10.11bs (4.6kg)
Two-way D.S.L. provides selectable levels of bass enhancement

For more effective than conventional loudness compensation circuits, AIWA's unique Dynamic Super Loudness employs an electronic system to provide low frequencies with natural tone quality at any listening level. Smaller bookshelf size loudspeakers greatly benefit with D.S.L. enhancement, putting out rich bass that belies their compact cabinet volumes. The SA-C80 features not one but two D.S.L. settings, giving a maximum of

+ 10dB (position 1) or
+ 20dB (position 2) selectable according to the listening area, type of music, speaker construction and other acoustic variables.

Quality PHONO reproduction

For accurate, low-noise reproduction of both MM and MC type phono cartridges, the equalizer circuit has been completely redesigned with a precision IC giving an output of 86dB signal-noise ratio with MM cartridges; because an MC head amplifier is built into the unit, turntables equipped with increasingly popular moving coil cartridge models may be connected directly, without the need for costly outboard accessories.

PLUS:
- Handome front panel arrangement with LED function indicators
- -20dB muting switch

Facilitates tuning.

Twelve-station memory preset

Up to 6 stations each for FM and AM may be preset for instant selection. Tuner retains previous setting when power is turned off, enabling unattended recording when connected with the optional MT-80 timer unit.

Pluse swallow counter dramatically lowers distortion

By raising the reference frequency of the tuner's VCO, the new Pulse Swallow Counter system prevents invasion of high-speed signals into the broadcast's upper harmonics, lowering distortion [0.06% (MONO)] and boosting signal/noise performance to a phenomenal 80dB for mono, 77dB in stereo.

PLUS:
- 5-step LED signal strength indicator
- Soft-touch operation buttons

FM muting, Hi-blend circuits


Adjustable auto-tuning level

ST-R80U

 PLL Quartz Synthesizer Tuner with Digital Display

For tuning at a touch, this model offers a choice of automatic or manual station selection. In manual, the tuned frequency display changes as long as pressure is applied to the UP or DOWN tuning buttons. In AUTO, once a tuning button is pressed the ST-R80 will search out the optimum tuning point of the next station on the band and halt automatically. Large digital frequency display

SA-C80U

Preamplifier

Attractively styled for functional operation, the SA-C80 accomodates up to six external sound sources, including two tape decks. Low-noise, low distortion ICs and discrete components virtually eliminate coloration, with total harmonic distortion a nearly unmeasurable 0.005% (20-20,000Hz).

Cassette deck

Few decks of any size can boast of the performance, features and quality of this state-of-the-art mini deck from AIWA

SA-C80U SPECIFICATIONS

INPUT SENSITIVITY IMPEDANCE:
- Phono (MM): 2.5mV/47k ohms
- Phono (MC): 0.25mV/100 ohms
- Tuner, Aux. 150mV/47k ohms

OUTPUT LEVEL IMPEDANCE:
- Tape output: 150mV/47k ohms
- Pre output: 1V/47k ohms

TOTAL HARMONIC DISTORTION:
- 0.005% (20-20kHz)

FREQUENCY RESPONSE:
- Aux, Tape input: 10Hz - 100kHz (+0dB, -3dB)
- RIAA Deviation: ±0.2dB
- MM: 20-20kHz, MC: 30-20kHz

SN RATIO:
- Phono (MM): 88dB
- Phono (MC): 80dB

POWER SOURCE: 120V, 60Hz

DIMENSIONS:
- ST-R80: 2-13/16" x 11-1/16" x 2-13/16" inches (250 x 281 x 281mm)
- SA-C80U: 9-7/8(W) x 9-11/16(D) inches (250 x 245mm)

WEIGHT: 4.9ls (2.2kg)

SA-L80U

Cassette deck

Few decks of any size can boast of the performance, features and quality of this state-of-the-art mini deck from AIWA

IC logic controls

Switching from one mode to another is almost effortless, with switches "click-touch" IC logic controls arranged in two rows for miss-free operation. And a precision dual-motor mechanism holds undesirable speed variations (wow & flutter) to virtually inaudible levels — 0.032% (WRMS).

Optical level meters

With the highly visual display of peak-reading LEDs (in three colors for even more accuracy) you can easily set recording inputs to their most effective range for dynamic, distortion-free recording. Indication is in two rows of 12 steps each, from -20 to +10dB.

PLUS:
- Durable DX head with ideal characteristics for metal recording
- One push tape selector switches (LH/Cr0/Metal)
- Timer Record/Playback selector switch
- Independently adjustable left-right record volume controls
- Front panel headphone jack
- Soft oil-damped cassette eject

SA-L80U SPECIFICATIONS

FREQUENCY RESPONSE:
- LH tape: 25-13,000Hz (dB)
- CrO2 tape: 20-16,000Hz
- Metal tape: 20-18,000Hz

SN RATIO:
- Metal tape: 80dB

WOW & FLUTTER:
- 0.032% (WRMS)

HEAD: REC/PB: DX Head
- CASSETTE DISP: Fixed 1/16" pitch
- INPUT SENSITIVITY IMPEDANCE:
- MIC: 0.3mV/20k ohms (500Hz)
- LINE IN: 50mV/50k ohms or higher

DIMENSIONS:
- 9-7/8(W) x 4-1/4(H) x 9-11/16(D) inches (250 x 107 x 245mm)

WEIGHT: 4.9lbs (2.2kg)
Gr a ph ic e qual iz e r amp lifi e r

This direct-drive turntable saves space in more ways than one, because records may be inserted and removed without lifting the dust cover. It's a unique feature from AIWA that permits the turntable to be positioned in an audio rack below the other components in the system.

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. A photo-electric cell automatically instructs the arm to play LP or EP size discs. Pressing the EJECT button either during or after play operation will transport the disc gently forward for removal. The dust cover may be left completely undisturbed during these operations.

High performance direct-drive motor

For accurate rotation speed completely free from cogging or other undesirable effects, the AP-D80 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 corrections instantly. Wow and flutter is held to a very low 0.028% (WRMS) and rumble is a superb 75dB (DIN-B), another result to improved motor design.

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 when it is raised from the record surface.

Other features:

• Photoelectric arm return mechanism
• Sensitive J-shaped static balanced arm
• Heavy 1.3kg diecast aluminum diecast platter

AP-D80U SPECIFICATIONS

TURNTABLE SECTIONS

DRIVE SYSTEM: Direct-drive system
MOTOR: 4-phase, 8-pole linear torque
DC Hall motor

TURN TABLE PLATTER: Aluminum alloy diecast (30cm) weight 1.3kg

SPEEDS: 33-1/3 and 45 rpm

VARIABLE PITCH CONTROL: ±3.3 %

WOW AND FLUTTER: 0.028% (WRMS)

S/N RATIO: 60dB (IEC-B curve), 75dB (DIN-B curve)

TONEARM SECTION

TYPE: Static balanced

EFFECTIVE ARM LENGTH: 8-1/2" (215mm)

OFFSET ANGLE: + 1.4°, – 3.6°

TRACKING FORCE RANGE: 0–3g

USABLE CARTRIDGE WEIGHT: 3.5 – 8.5g

POWER SOURCE: 120V, 60Hz

DIMENSIONS: 17-3/4(W)x 4-3/16(H)x 14-13/16(D) inches

WEIGHT: 15.9lbs (7.2kg)

GE-80U

Graphic equalizer amplifier

The human ear's discrimination of sounds is so remarkable, many audiophiles find that bass and treble tone controls are insufficient for really precise tonal adjustment. The GE-80 graphic equalizer was designed to offer full control of the music spectrum at seven individual points, providing the listener with 10dB of boost or cut at 40, 125, 330, 1,000, 2,500, 6,300 and 15,000Hz. An effective, highly recommended means of getting the most from all sound sources.

Other features:

• Connects in series between power and preamplifier units
• Very low harmonic distortion (0.0255%, at 1kHz)
• Illuminated cursors clearly indicate setting position

RC-R500U

Wireless remote control system

Looking for a way to add the perfect touch to your AIWA system? For deluxe operation and sheer convenience, this wireless remote transmitter-receiver combination gives you versatile control of most system functions from up to 6 meters (20 feet) away. Safe infrared pulses activate controls within 45° angle on either side of the system. "Command checker" display visually confirms operation from across the room.

Functions

Amp

• Inter-mode switching: TAPE, PHONO, TUNER, etc.
• Volume control
• – 20dB muting

Tuner

• Up-down tuning adjustment

Other features:

• Preset channel selection (AM/FM)

Cassette deck

• PLAY, RECORD, F. FWD, REWIND, STOP

Pause in playback or record modes

Other features:

• Power interruption compensation
• Display dimmer facility

MT-80U

Digital Audio Timer

With the proliferation of high-quality FM broadcasts, a timer which affords enables home users the capability to make unattended recordings of scheduled programs can be a particularly useful addition to an audio system. The MT-80 however has many other useful functions, including a convenient countdown facility. It also controls the EJECT button either during or after record operation. This timer can also activate the entire M-808 system for two on-off cycles in a single 24 hour period, and can be programmed to select up to six automatic changes between preset channels on the tuner.

Other features:

• Power interruption compensation
• Display dimmer facility

DIMENSIONS: 9-7/8(W)x 2-13/16(H) x 10(D) inches

WEIGHT: 5.1lbs (2.3kg)

AP-D80U

Front-loading full-auto turntable

This direct-drive turntable saves space in more ways than one, because records may be inserted and removed without lifting the dust cover. It's a unique feature from AIWA that permits the turntable to be positioned in an audio rack below the other components in the system.
The Integrated 30 Watt System: Symmetrical dimensions, flexible operation

SA-A60U
Amplifier, tuner and cassette deck: all identically styled, all with exciting performance. The SA-A60 integrated amplifier typifies a new breed of space-saving mini component designed for powerful, low-distortion sound.

Dynamic Super Loudness for improved bass reproduction
Mere tone adjustment or use of conventional loudness compensation can only enhance bass signals at the expense of affecting listening quality in midrange frequencies as well. The new DSL circuit in the SA-A60 puts back electronically what the speaker itself is unable to do structurally. DSL performs at its best at quiet listening levels; its effect is automatically attenuated in response to output volume, keeping tone quality natural whether at low, medium or high volumes. Whether with bookshelf-size or larger floor-standing speakers, every type of music stands to benefit from this exciting new achievement.

Built-in MC cartridge head amp
Just press in the front panel switch and you can enjoy the distinctive tone quality of Moving Coil phonograph cartridges on the SA-A60 without the need for expensive outboard head amplifier units. MM cartridge performance is outstanding as well; the precision phono equalizer boosts a superb 85dB S/N ratio and RIAA deviation within ±0.2dB from 20 to 20,000Hz.

Stabilized power supply
For full power performance with extra stability, the 30 Watt per channel power stage incorporates a heavy-duty toroidal core transformer. Power ICs are protected by a new type of temperature-sensitive circuit designed to guard against overheating.

PLUS:
- Wireless remote control terminal
- 7-step peak power output display
- -20dB muting switch
- Low cut filter
- LED mode setting indicators

SA-A60U SPECIFICATIONS
OUTPUT POWER: 30 Watts per channel, Min. RMS at 8 ohms, from 30Hz ~ 20kHz, with no more than 0.1% T.H.D.
TOTAL HARMONIC DISTORTION: 0.05% (1kHz at rated power output)
RIAA DEVIATION: ±0.2dB (20 ~ 20kHz)
FREQUENCY RESPONSE: 10Hz ~ 70kHz (±3dB)
S/N RATIO: MM: Phonograph 85dB, Tuner Aux 93dB, MC: 68dB
POWER SOURCE: 120V, 60Hz
DIMENSIONS: 9-7/8(W) x 2-13/16(H) x 10-1/8(D) inches (250 x 71 x 257.5mm)
WEIGHT: 9.3lbs (4.2kg)
You won't find a tuning knob on the ST-R50, because there's no more tuning capacitor to be rotated. All tuning is performed automatically and electronically by means of a voltage-sensitive varactor diode that employs a PLL quartz synthesizer for extra accuracy. Up to 6 stations each for AM and FM may be programmed into the memory circuit and recalled instantly at the touch of a button. Manual tuning is also possible by holding in the up or down control until the desired station frequency is displayed. For optimum sound quality, a quadrature detector circuit with 6-element ceramic filters having flat group delay characteristics achieves a high signal/noise ratio, low distortion and high sensitivity. A newly developed IC in the limiter and detector stages enhances stability and boosts reliability. A PLL IC in the MPX demodulation stage provides stable FM stereo switching unaffected by temperature, humidity or aging. The ST-R50 can also be combined with a couple of AIWA options that make it perhaps the most convenient all-around versatile tuner available. When connected to the optional MT-50 timer unit, two onoff cycles can be programmed at any time desired, and if the power remains on, preset stations may be changed automatically up to 6 times in a 24-hour period. The RC-R300 wireless remote transmitter/receiver unit (also optional) is capable of performing manual up/down tuning or selection of preset stations from up to 20 feet away.

**PLUS:**
- Adjustable synthesizer sensitivity control
- 3 or 4 digit tuned frequency display
- FM muting and Hi-blend switches
- 5-point LED signal strength indicator

### ST-R50U SPECIFICATIONS

**FM SECTION**
- FREQUENCY RANGE: 87.5 MHz to 108 MHz
- USABLE SENSITIVITY: 10.8 dB (1.9 µV, 75Ω)
- 50 dB QUIETING SENSITIVITY:
  - Mono: 18.2 dB (4.5 V, 300Ω)
  - Stereo: 30.2 dB (4.5 V, 300Ω)
- SELECTIVITY: 35 dB (3 kHz), 65 dB (400 Hz)
- S/N RATIO: Mono 75 dB, Stereo 72 dB
- CAPTURE RATIO:
  - Mono: 18.2 dB (4.5 V, 300Ω)
  - Stereo: 30.2 dB (4.5 V, 300Ω)
- IMAGE REJECTION RATIO: 75 dB

**AM SECTION**
- FREQUENCY RANGE: 530 kHz to 1,700 kHz
- USABLE SENSITIVITY: 6.3 µV (1,000 Hz)
- S/N RATIO: 60 dB
- SELECTIVITY: 65 dB
- POWER SOURCE: 120V, 60 Hz
- DIMENSIONS: 16-9/16 (W) x 2-13/16 (H) x 10 (D) inches
- WEIGHT: 5.3 lbs

### SD-L60U SPECIFICATIONS

**WOW & FLUTTER:** 0.08% (WRMS)
- S/N RATIO: 64 dB (Dolby on, Metal tape)
- FREQUENCY RESPONSE:
  - LH tape: 30 - 13,000 Hz (±3 dB)
  - CR tape: 30 - 15,000 Hz (±3 dB)
  - Metal tape: 30 - 15,000 Hz (±3 dB)
- POWER SOURCE: 120V, 60 Hz
- DIMENSIONS: 9-7/8 (W) x 2-1/8 (H) x 11-1/16 (D) inches
- WEIGHT: 11.0 lbs

**Linear DD motor**
Unlike previous direct drive designs which place the motor beneath the platter spindle, the AP-D60U's unique construction drives the platter by means of alternating current generated by a ring of magnets on the platter's outer edge. This enables space reduction and provides smooth rotation with a minimum of vibration.

**Automatic record size selection**
A photoelectric sensor mechanism below the turntable mat detects the size of the record and relays this information to the tonearm mechanism. This system ensures that the stylus will be protected from the kind of "accidents" to which non-thinking automatic turntables are so prone.

**PLUS:**
- Full front panel control design
- Adjustable pitch control with strobeoscopic indicators
- Auto-repeat facility
- Solid, anti-humming cabinet material
- Removable dust cover

### AP-D60U SPECIFICATIONS

**TURNTABLE SECTION**
- DRIVE SYSTEM: FG direct drive system
- MOTOR: 2-phase, 120-pole FG linear motor
- TURNTABLE PLATTER: 30cm (11-13/16"")
- SPEEDS: 33-1/3 and 45rpm
- WOW & FLUTTER: 0.025% (WRMS)
- S/N RATIO: 70 dB (DIN-B)
- TONE ARM SECTION
  - TYPE: Moving magnet (MM) cartridge
  - FREQUENCY RESPONSE: 20 Hz - 20,000 Hz
- OUTPUT VOLTAGE: 2.5 mV (1 kHz, 5 cm/sec.)
- GENERAL
  - POWER SOURCE: AC, 120V, 60 Hz
  - DIMENSIONS: 16-9/16 (W) x 2-13/16 (H) x 14-3/16 (D) inches
  - WEIGHT: 11.0 lbs

**New "Integrated Tonearm" system**
Because headshell, cartridge and tonearm have been designed for maximum compatibility, this new system offers a number of advantages over conventional models. Lowered mass of the integrated unit effectively increases compliance, while at the same time lowering the tonearm's resonance "Q" to minimize adverse effects of record warp frequency.
MINI SYSTEM M-605

For those who prefer an upright-loading cassette deck unit to the horizontal system featured on the SD-L60U, AIWA offers the M-605 ensemble. Other than the SD-L50U cassette deck, system is identical to the M-606.

SD-L50U
Stereo Cassette Deck
A front-loading model with all the features of full-sized units, the SD-L50 nonetheless is an incredibly compact 9-7/8 inches wide by 4-1/4 inches high, making it one of the most compact cassette decks currently available. Circuitry and head design have been reinforced to give superb sound quality from the new high performance metal tapes. IC logic controls with a stroke of just 0.3mm contribute to the positive feeling of operation, while the dual motor drive transport holds Wow & Flutter to below 0.01% (WRMS). The deck can also be set to perform automatic rewind.

Some of the many possible wireless operations:
1. Function selection (AUX, TUNER, PHONO)
2. Tape monitor ON/OFF switching
3. Remote station selection, including one-touch tuning of up to 6 preset stations on ST-R50, 10 stations on AX-550
4. Cassette deck transport modes (SD-L50, SD-L60)
5. UP/DOWN amplifier volume adjustment
6. Power ON/OFF switching
7. -20dB muting ON/OFF

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

WEIGHT: 2.3kg (5.1lbs)

S/N RATIO: 64dB (Dolby on, FeCr tape)
FREQUENCY RESPONSE:
- LH tape: 30 - 13,000Hz (-3dB)
- Cr2 tape: 30 - 13,000Hz (-3dB)
- Metal tape: 30 - 16,000Hz (-3dB)

HEAD: REC/PB: Super hard permalloy head
ERASE: Hi-Bs Ferrite double gap head
MOTOR: DC Servo motor x 1, DC motor x 1

INPUT SENSITIVITY/IMPEDANCE:
MIC: 0.3mV/200 ohms – 10k
LINE IN: 250mV/50k ohms

OUTPUT LEVEL/IMPEDANCE:
LINE OUT: 0.41V/50k ohms
HEADPHONE: 0.3mV/8 ohms

POWER SOURCE: 120V, 60Hz

DIMENSIONS:
9-7/8(W) x 4-1/4(H) x 10(D) inches
(250 x 107 x 254 mm)
WEIGHT: 4.5kg (9.9lbs)

RC-R300U
Infrared Wireless Remote Control System
Designed as an optional accessory for M-605, M-606, M-605 and M-502 mini series, this remote control transmitter/receiver set provides great value in an outboard system. The compact hand-held transmitter unit performs a wide range of functions from up to 20 feet away from the main components.

MT-50U
Digital Quartz Audio Timer
The functions of a timer unit were limited too long by the confines of the designer's imagination. This ultra-slim model now offers an exciting variety of functions that will add versatility and enjoyment to AIWA mini systems and make ordinary timers seem outmoded in comparison.

Functions:
- Wake up alarm signal
- 99-minute sleep timer
- Program timer
- Up to two ON/OFF cycles per 24 hour period.

Remaining tape time display
When connected to the SD-L50 cassette deck, remaining tape time is displayed in minutes and seconds. Countdown is stopped during PAUSE operation and continues when play resumes.

Automatic tuner station selection
The synthesizer preset tuning on the ST-R50 tuner and AX-550 receiver can be programmed to select up to 6 different stations (including the same station twice or more) to come on at the time specified by the user.

Other features:
- Two AC outlets on rear panel
- Dimmer control switch permits audio level adjustment
- AM/PWM indicator
- Power interruption compensation
- Second synchronization facility

DIMENSIONS:
250(W) x 38(H) x 261.5(D)mm
(9-7/8" x 1-7/16" x 10-5/16")
WEIGHT: 1.6kg (3.5lbs)
MINI SYSTEM M-505

The 20 Watt Receiver System: A roomful of hi-fi performance from two matched units

AX-S50U

Mini Receiver

A smart looking receiver of incredibly compact dimensions, the AX-S50 puts out a lively 20 Watts per channel; its main appeal however is in its many sophisticated features, some so advanced they are just beginning to make their appearance in current full-sized receiver models.

For fully electronic one-touch tuning capability, the tuner section incorporates a quartz PLL synthesizer which selects the station either automatically or manually. Up to 10 stations may be programmed into the tuner's "memory" and selected at random, irrespective of band. An A/B switch (A = 1-5 / B = 6-10) serves to reduce the number of switches for a cleaner control arrangement.

Also available: M-502 system

AX-S50U SPECIFICATIONS

TUNER SECTION

| USABLE SENSITIVITY: 11.2dBf (2/3,300kHz) | Phono 2.5mV/47k ohms |
| 50dB QUETING SENSITIVITY: Mono: 17.2dBf (4.0µV, 300kHz) | Aux, Tape 150mV/47k ohms |
| 50dB S/N RATIO: Mono 75dB | S/N RATIO: Mono 80dB |
| 50dB CAPTURE RATIO: 1.5dB | Aux, Tape 90dB |
| 50dB SELECTIVITY: 65dB (±10kHz) | PHONO: RIAA CURVE: 30Hz - 15kHz ± 0.3dB |
| 50dB T.H.D.: Mono 0.15% | PHONO OVERLOAD: 180mV (1kHz) |
| 50dB Stereo 0.3% | POWER SOURCE: 120V/60Hz |
| 50dB STEREO SEPARATION: 400dB (at 1kHz) | DIMENSIONS: 9-7/8(W) x 2-13/16(H) x 12-1/2(D) inches |
| AM TUNER SECTION | (250 x 71 x 316mm) |
| FREQUENCY RANGE: 53kHz - 1.65kHz | WEIGHT: 7.9lbs (3.6kg) |
| USABLE SENSITIVITY: | |
| 300µV/m (Bar antenna) | Phono, Tape |
| 30µV/m (Ext. antenna) | AUX, Tape |

Also available: M-502 system
The MINI SYSTEM M-301

The 35 Watt System: Refinement, Ingenuity, Performance.

SA-P30U

Power Amplifier
An incredible 35 Watts per channel into 8 ohms 20 to 20,000Hz both channels driven with not more than 0.05% T.H.D.

All the advanced technology and features of mini systems would be essentially meaningless without the ability of produce sufficient power to substantiate its claims. For this reason, AIWA turned its highest priority to developing an amplifier that could satisfy the need for a practical, well balanced output while at the same time offering flawless tonal reproduction.

The 3-stage complementary DC construction means that although power output specifications can be considered moderate, performance is never marred by undesirable phase shift or noise generated by coupling capacitors in the NF loop. The P30's ability to capture all the subtle nuances of music have been consistently demonstrated during "blindfold" comparison tests using studio monitor speakers and state-of-the-art amplifier units. Truly a component that can turn skeptics into believers.

The high FC (frequency cutoff) of the power transistors in the P30 feature improved linearity and the ultra high speed needed to capture the most elusive changes in dynamic music signals. For absolutely stable regulation of the power supply, a high-efficiency toroidal transformer and pair of large-capacity 10,000µF electrolytic capacitors enable the unit's amazing reduction in size at no sacrifice in performance. Large diecast heat sinks have proved effective in dissipation of heat even during extended "torture tests" in which the P30 is driven continuously at maximum output.

Sophisticated protection circuit
A newly developed IC combines a relay and circuit breaker to suppress pop noises during power on/off switching, as well as to protect speakers from potentially harmful flow of DC.

Other features:
- BTL conversion switch
- 5-step logarithmic peak LED power indicator
- A/B speaker systems selector
- One-touch speaker cord connection terminals
- Stereo headphone jack
- Rack handles included

SA-C30U

Stereo Preamplifier
AIWA's M-301 system of 4 discrete components subscribes to the concept that the only way to do a job properly is to specialize, so power and pre-amplifier stages have been separated to ensure optimal performance from both. Yet, the C30 is an amazingly functional unit backed up by a separate plus-minus power supply and muting relay to suppress pops and clicks during mode selection. A completely capable audio component.

Superb phono equalization
In the SA-C30, specially-selected polypropylene capacitors and metal-film resistors hold RIAA phono-equalization to within ±0.2dB across the entire 20 to 20,000Hz frequency range. Moreover, a high-gain IC and ultra-low noise transistor have been combined for a superb RIAA signal/noise ratio; that means noise is virtually absent from the phono circuit at any cartridge output level. A low-cut filter with a steep 6dB/oct rolloff is also provided to eliminate low frequency irregularities caused by rumble from the turntable motor or record warp.

Non-contact mode switching
Equipped with individual LED indicators to display mode settings, the switches themselves are operated without contacts, making the C30 free from signal deterioration during switching. A -20dB muting switch has also been provided to let you temporarily attenuate speaker volume without having to disturb that "just right" volume setting.

Defeatable tone controls
The click-stop bass and treble tone controls may be set to "defeat" at their center positions, thus bypassing the tone control amplifier to yield a "flat", uncolored signal.

Other features:
- Loudness compensation switch
- Balance control
- Mono/stereo selector
- Large volume control knob
- Rack handles included

SA-P30U SPECIFICATIONS
CIRCUITRY: DC amplifier
OUTPUT POWER: 35 Watts per channel, Min. RMS at 8 ohms, from 20 - 20,000Hz, with no more than 0.05% T.H.D.
POWER BANDWIDTH: 10Hz - 50kHz (Distortion under 0.05%)
T.H.D.: 0.01% at 35V(1kHz)
SIGNAL TO NOISE RATIO: 115dB (IHF A curve short circuit)
INPUT SENSITIVITY/IMPEDEANCE: 800mV/47k ohms
SPEAKER: A or B 4 - 16 ohms
A + B 4 - 16 ohms
DAMPING FACTOR: More than 50 (at 1kHz, 8 ohms)
FREQUENCY RESPONSE: 5Hz - 100kHz (+3, -1dB)
BTL/SP IMPEDANCE CHANGESWITCH: 4ohms/8ohms/BTL
POWER SOURCE: 120V, 60Hz
DIMENSIONS: 8-5/16(W) x 2-13/16(H) x 9-1/16(D) inches (210 x 71 x 228.5mm)
WEIGHT: 8.8lbs (4kg)

SA-C30U SPECIFICATIONS
SIGNAL TO NOISE RATIO:
Phono (MM) 87dB
Tuner AUX 96dB
RIAA DEVIATION: ±0.2dB (20 - 20,000Hz)
PHONO OVERLOAD: 200mV (at 1kHz)
INPUT VOLTAGE/IMPEDEANCE:
Phono 2.5mV/47k ohms
Tuner 150mV/47k ohms
AUX 150mV/47k ohms
TAPE MONITOR:
Tape in: 150mV/47k ohms
Tape out: 150mV/47k ohms
TONE CONTROL:
Bass ±9dB (100Hz)
Treble ±7dB (10kHz)
LOW FILTER: 30Hz/60B/300Hz
MUTING LEVEL: -20dB
PRE-OUT: 0.6V/47k ohms
(±40dB)
+7dB (100Hz), +3.5dB (10kHz)
POWER SOURCE: 120V, 60Hz
DIMENSIONS:
8-5/16(W) x 2-13/16(H) x 9-1/16(D) inches (210 x 71 x 228.5mm)
WEIGHT: 3.8lbs (1.75kg)
### SD-L30U Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Response</strong></td>
<td>30-15,000Hz</td>
</tr>
<tr>
<td><strong>S/N Ratio</strong></td>
<td>70dB</td>
</tr>
<tr>
<td><strong>IF Rejection</strong></td>
<td>55dB</td>
</tr>
<tr>
<td><strong>AM Section</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>525kHz-1,605kHz</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>120V, 60Hz</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>8-5/16(W) x 2-13/16(H) x 9(D) inches</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>4.6lbs (2.1kg)</td>
</tr>
</tbody>
</table>

### AP-D35U Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turntable Section</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Drive System</strong></td>
<td>Belt-drive system</td>
</tr>
<tr>
<td><strong>Motor</strong></td>
<td>4-pole synchronous motor</td>
</tr>
<tr>
<td><strong>Turntable Platter</strong></td>
<td>11-13/16&quot; (30cm) aluminum diecast platter for low 0.07% wow &amp; flutter. Sensitive low-mass straight tonearm is designed for improved trackability. Features adjustable anti-skating cueing and auto-return.</td>
</tr>
<tr>
<td><strong>Speeds</strong></td>
<td>33-1/3 and 45rpm</td>
</tr>
<tr>
<td><strong>Wow &amp; Flutter</strong></td>
<td>0.07% (WRMS)</td>
</tr>
<tr>
<td><strong>SN Ratio</strong></td>
<td>60dB</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>9.3lbs (4.2kg)</td>
</tr>
</tbody>
</table>

---

### ST-R30U Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FM Section</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>Mono: 10.8dB (1.9µV, 300Ω)</td>
</tr>
<tr>
<td><strong>Stereo</strong></td>
<td>37.9dB (43µV, 300Ω)</td>
</tr>
<tr>
<td><strong>Signal to Noise Ratio</strong></td>
<td>Mono: 73dB</td>
</tr>
<tr>
<td><strong>Stereo: 0.1%</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Distortion</strong></td>
<td>Mono: 0.1%</td>
</tr>
<tr>
<td><strong>Capture Ratio</strong></td>
<td>1.5dB</td>
</tr>
<tr>
<td><strong>Stereo Channel Separation</strong></td>
<td>45dB (at 1kHz)</td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>30-15,000Hz</td>
</tr>
<tr>
<td><strong>IF Rejection</strong></td>
<td>80dB</td>
</tr>
<tr>
<td><strong>AM Suppression Ratio</strong></td>
<td>55dB</td>
</tr>
<tr>
<td><strong>AM Section</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>MW: 525kHz-1,605kHz</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>120V, 60Hz</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>8-5/16(W) x 2-13/16(H) x 9(D) inches</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>6.2lbs (2.8kg)</td>
</tr>
</tbody>
</table>

---

### SD-L30U Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wow &amp; Flutter</strong></td>
<td>0.09% (WRMS)</td>
</tr>
<tr>
<td><strong>S/N Ratio</strong></td>
<td>60dB</td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Input Sensitivity/Impedance</strong></td>
<td>Line in 50mV/50k ohms</td>
</tr>
<tr>
<td><strong>Output Level/Impedance</strong></td>
<td>Line out 0.1W/50k ohms</td>
</tr>
</tbody>
</table>

### AP-D35U Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turntable Section</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Drive System</strong></td>
<td>Belt-drive system</td>
</tr>
<tr>
<td><strong>Motor</strong></td>
<td>4-pole synchronous motor</td>
</tr>
<tr>
<td><strong>Turntable Platter</strong></td>
<td>11-13/16&quot; (30cm) aluminum diecast platter for low 0.07% wow &amp; flutter. Sensitive low-mass straight tonearm is designed for improved trackability. Features adjustable anti-skating cueing and auto-return.</td>
</tr>
<tr>
<td><strong>Speeds</strong></td>
<td>33-1/3 and 45rpm</td>
</tr>
<tr>
<td><strong>Wow &amp; Flutter</strong></td>
<td>0.07% (WRMS)</td>
</tr>
<tr>
<td><strong>SN Ratio</strong></td>
<td>60dB</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>9.3lbs (4.2kg)</td>
</tr>
</tbody>
</table>

---

### AP-D35U Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tone Arm Section</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Static balanced straight type</td>
</tr>
<tr>
<td><strong>Effective Arm Length</strong></td>
<td>8-1/2&quot; (215mm)</td>
</tr>
<tr>
<td><strong>Overhang</strong></td>
<td>58° (16mm)</td>
</tr>
<tr>
<td><strong>Offset Angle</strong></td>
<td>23.0°</td>
</tr>
<tr>
<td><strong>Usable Cartridge Weight</strong></td>
<td>5 - 9g (without screw nut)</td>
</tr>
<tr>
<td><strong>Tracking Force Range</strong></td>
<td>0 - 4g</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>AC: 120V, 60Hz</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>16-9/16(W) x 4-3/16(H) x 14(D) inches</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>9.3lbs (4.2kg)</td>
</tr>
</tbody>
</table>
The 15 Watt System: For those with an ear for high fidelity
**SC-E80**

*Three-way speakers*

A compact 16-9/16 inches in height, the SC-E80 incorporates a heavy-duty magnet for powerful bass reproduction in either D.S.L setting. Midrange and tweeter units may be individually attenuated. Handsome marbled finish and removable grille lend a beautiful, high-quality appearance.

**SC-E80 SPECIFICATIONS**

- **Type**: 3-way Damped Bass-reflex type
- **Speaker Units**:
  - **Woofers**: 7-7/8 inches (20cm)
  - **Midrange**: 2-3/8 inches (6cm)
  - **Tweeter**: 1-5/8 inches (4cm)
- **Impedance**: 8 ohms
- **Max. Input**: 80 watts
- **Output Level**: 90dB/W (1m)
- **Frequency Response**: 40 - 20,000Hz
- **Dimensions**: 9-7/8(W) x 16-9/16(H) x 10-1/4(D) inches (250 x 420 x 260mm)
- **Weight**: 20.1 lbs (9.1 kg)

**Recommended system**

- **M-808**
- **M-605**
- **M-606**
- **M-505**
- **M-301**
- **M-302**

---

**SC-E50**

A high performance 3-way speaker recommended for the M-808, M-606 and M-605 system, high frequencies all the way to transient response.

**SC-E50 SPECIFICATIONS**

- **Type**: 3-way Bass-reflex type
- **Speaker Units**:
  - **Woofers**: 7-7/8 inches (20cm)
  - **Midrange**: 2-3/8 inches (6cm)
  - **Tweeter**: 1 inch (2.5cm)
- **Impedance**: 8 ohms
- **Max. Input**: 70 watts
- **Output Level**: 90dB/W (1m)
- **Frequency Response**: 40Hz - 40kHz
- **Dimensions**: 9-7/8(W) x 15-3/16(H) x 9-7/8(D) inches (250 x 390 x 250mm)
- **Weight**: 17.6 lbs (8.0kg)

**SC-E60**

A handsome addition to the M-808, M-606 or M-605 mini systems, this two-way bookshelf speaker system features a newly developed 1-inch dome tweeter and large 7-1/8-inch low frequency driver for efficient bass reproduction. Wide 45 - 40,000Hz frequency response.

**SC-E60 SPECIFICATIONS**

- **Type**: 2-way Bass-reflex type
- **Speaker Units**:
  - **Woofers**: 7-1/8 inches (18cm)
  - **Tweeter**: 1 inch (2.5cm)
- **Impedance**: 8 ohms
- **Max. Input**: 60 watts
- **Output Level**: 90dB/W (1m)
- **Frequency Response**: 45Hz - 20kHz
- **Dimensions**: 8-5/16(W) x 13(H) x 8-11/16(D) inches (210 x 330 x 220mm)
- **Weight**: 8.8lbs (4kg)

**SC-E11A**

Ultra-compact 2-way speakers incorporate AIWA's unique "Long Fold Duct" for outstanding low-range response.

**SC-E11A SPECIFICATIONS**

- **Speaker Units**:
  - **Woofers**: 3-15/16 inches (10cm)
  - **Tweeter**: 2 inches (5cm)
- **Impedance**: 8 ohms
- **Max. Input**: 50 Watts
- **Frequency Response**: 60Hz - 20kHz
- **Dimensions**: 4-3/4(W) x 7-3/8(H) x 5-11/16(D) inches (120 x 187 x 150mm)
- **Weight**: 6.4 lbs (2.9 kg) each

**SC-E35**

Two-way bass-reflex type speakers combine handsome looks with accurate reproduction. Recommended with M-505, M-301, M-302 mini systems.

**SC-E35 SPECIFICATIONS**

- **Speaker Units**:
  - **Woofers**: 5-1/8 inches (16cm)
  - **Tweeter**: 2 inches (5cm)
- **Impedance**: 8 ohms
- **Max. Input**: 30 Watts
- **Frequency Response**: 50Hz - 30kHz
- **Dimensions**: 8-5/16(W) x 13(H) x 8-11/16(D) inches (210 x 330 x 220mm)
- **Weight**: 8.9lbs (4kg)
MINI SYSTEM M-101

The multi-use system: Three-way power operation for component sounds you can take along.

Want to listen to discs? No problem. The SA-A10 also features a built-in phono equalizer stage for natural rendition of high-performance MM cartridges. Beside the independent bass/treble controls, a loudness compensation switch is provided to give you more dynamic sound quality even at low volume listening. And watch while the 5-point logarithmic LED peak indicators display changes in power output.

PLUS:

• Rear panel AC outlets (2)
• Stereo headphone jack
• Balance control
• Power ON indicator LED
• Quick-touch speaker connection terminals

Go—with real audio.
At home anywhere,
with great sounds and true portability.

DC-123

DC adapter (DC12V) for car use

SA-A10U SPECIFICATIONS

OUTPUT POWER: 11 Watts per channel, Min. RMS at 4 ohms, from 50–20,000Hz, with no more than 1.5% T.H.D.

TOTAL HARMONIC DISTORTION: 0.5% (at 1W, 8 ohms)

RIAA DEVIATION: ±1dB (35–20,000Hz)

DAMPING FACTOR: 20 (at 1kHz, 8 ohms)

FREQUENCY RESPONSE: 20–35,000Hz

S/N RATIO: Phono: 72dB
Tuner, Aux: 85dB

TONE CONTROLS:
Bass: ±8dB (at 100Hz)
Treble: ±8dB (at 10kHz)

POWER SOURCE: 120V, 60Hz

DIMENSIONS: 8-5/16(W) x 2-3/16(H) x 8-1/16(D) inches

WEIGHT: 5.3lbs (2.4kg)
**ST-R10U**

**AM/FM Stereo Tuner**

In addition to its wide frequency response, high selectivity and beautifully-defined FM stereo channel separation, the ST-R10 features two newly-developed features designed to bring out the unit's full potential whether indoors or out. First, a special Input Noise Blanking System effectively suppresses interference from auto ignition systems. And second, the ST-R10 incorporates a unique new Auto Blend Circuit which automatically adjusts the FM MPX stage as required to prevent deterioration of channel separation.

---

**SD-L10U**

**Stereo Cassette Deck**

A uniquely-designed component only 2 inches in height, the SD-L10 is a full-fledged cassette deck which can make superb-quality recordings as well as playback. Metal tape compatibility and Dolby* noise reduction ensure high performance from any sound source, even live stereo recordings with microphones.

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**ST-R10U SPECIFICATIONS**

**FM SECTION**

- Frequency response: AM: 500Hz - 15,000Hz, FM: 50Hz - 15,000Hz
- Sensitivity: AM: 4.5μV, 3000Ω, FM: 5μV, 75Ω
- Signal-to-noise ratio: AM: 70dB, FM: 58dB
- Total harmonic distortion: AM: 0.3%, FM: 0.5%
- Selectivity: AM: 30 dB, FM: 50dB

**SD-L10U SPECIFICATIONS**

- Frequency response: AM: 500Hz - 15,000Hz, FM: 50Hz - 15,000Hz
- Sensitivity: AM: 4.5μV, 3000Ω, FM: 5μV, 75Ω
- Signal-to-noise ratio: AM: 70dB, FM: 58dB
- Total harmonic distortion: AM: 0.3%, FM: 0.5%
- Selectivity: AM: 30 dB, FM: 50dB

---

**SC-E1**

**Bass-Reflex Speaker System**

**SC-E1 SPECIFICATIONS**

- Speaker size: 4-1/2" x 16" (12.5cm)
- Impedance: 4 ohms
- Frequency response: 65Hz - 17,000Hz
- Maximum input power: 15 Watts
- Dimensions: 6-5/16(W) x 8-9/16(H) x 7-3/4(D) inches (159 x 212 x 193mm)
- Weight: 5.1 lbs (2.3kg)

**CB-1**

**Carrying case for M-101 system**

**DIMENSIONS**

- 23-1/8(W) x 9-1/16(H) x 11-1/8(D) inches (593 x 235 x 282mm)

**RB-10**

**Rechargeable battery pack**

**DIMENSIONS**

- 8-3/4(W) x 2-3/16(H) x 9-1/2(D) inches (221 x 55 x 240mm)
- Weight: 5.5 lbs (2.5kg)
RK-H80
Full system rack for M-806, M-606 and M-605; includes space at bottom for AP-D80 motorized loading turntable.
DIMENSIONS: 21-1/8(W) x 13-9/16(H) x 15-3/16(D) inches (535 x 344 x 385mm)

RK-S50
Full system wood rack for M-605 and M-606; includes space at bottom for AP-D80, world’s first motorized loading turntable.
DIMENSIONS: 21-3/16(W) x 13-1/2(H) x 15(D) inches (541 x 342 x 380mm)

RK-C45B
Simulated walnut vinyl-covered wood rack for mini systems M-301 and M-302. Rack compatible for either 3 or 4 units by using a removable panel.
DIMENSIONS: 11-1/2(W) x 13-7/16(H) x 10-1/4(D) inches (291 x 341 x 260mm)

RK-J7
DIMENSIONS: 11-11/15(W) x 12-11/16(H) x 11-1/15(D) inches (280 x 321 x 280mm)

RK-C53
Silver-finish wood rack for M-605, M-606, M-502 and M-505 systems.
DIMENSIONS: 11-7/16(W) x 14-1/2(H) x 11-1/2(D) inches (290 x 367 x 292mm)

RK-C1
Silver-finish wood rack for M-101
DIMENSIONS: 10-1/8'(W) x 7-1/2'(H) x 9-7/8'(D) (256 x 190 x 250mm)

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AIWA AMERICA INC.
35 Oxford Drive, Moonachie, N.J. 07074 (201) 440-5220

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