KA-880SD

KENWOOD

INSTRUCTION MANUAL

Introduction

Your choice of this product indicates that you are a devotee to excellence in sound reproduction.

We appreciate your patronage and take pride in the long tradition of quality components, that our company represents.

So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system. This will acquaint you with operating features, and system-connection considerations, so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability, we have sought to anticipate your needs and desires. Keep this manual handy for future reference.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Number_____

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Before operation

Safety precautions

Never remove the case. If the internal parts are touched accidentally, a serious electric shock might occur.



Never touch internal parts.

If a metal object, such as a hair pin or a needle, comes into contact with the power socket on the rear panel, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.



Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster.



Never connect other electrical appliances.

Touching the power plug when your hands are wet may result in a serious electric shock.



Never touch with wer

Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.



Never pull or stretch the cord.

In case of abnormal smell

If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service station.



Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzine, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.





Installation precautions

- a) Avoid locations subject to direct sunlight.
- b) Avoid high or low temperature extremes.
- c) Keep the unit away from heat radiating sources.
- d) Choose a location that is relatively free of vibration or excessive dust.
- e) Make sure power is off before making any system connections.



Important!

U.S.A., Canada, Australia and U.K.

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only. Units shipped to Australia and U.K. are designed for operation on 240 volts AC only. These units are not equipped with an AC voltage selector switch and the discussion of such a switch that follows should be disregarded.

All other countries

Units shipped to countries other than the U.S.A., Canada, Australia and U.K. are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 120 (110 - 120) volts or 220 (220 - 240) volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

Safety precaution for AC plug (For Canada)

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EX-TENSION CORD. RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT **EXPOSE THIS** APPLIANCE TO RAIN OR MOISTURE.



This shows switch lever locked in the AC 120 (110-120) V~ position.

This shows switch lever locked in the AC 220 (220-240) V∿ position.

Move switch lever to match your line voltage.

AC voltage selector switch

For United Kingdom

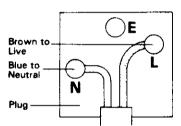
The mains plug must be removed from the wall socket prior to any internal examination.

The wires in this mains lead are coloured in accordance with the following code:

Blue Neutral Brown Live

The wires in this mains lead must be connected to the terminals in the plug as follows:

Plug Terminal Marking Wire Colour Blue N or Black Brown L or Red



Notes:

- 1) If a 13-amp plug is used, this must be fitted with a 5-amp
- If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal

Rear panel safety precautions

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

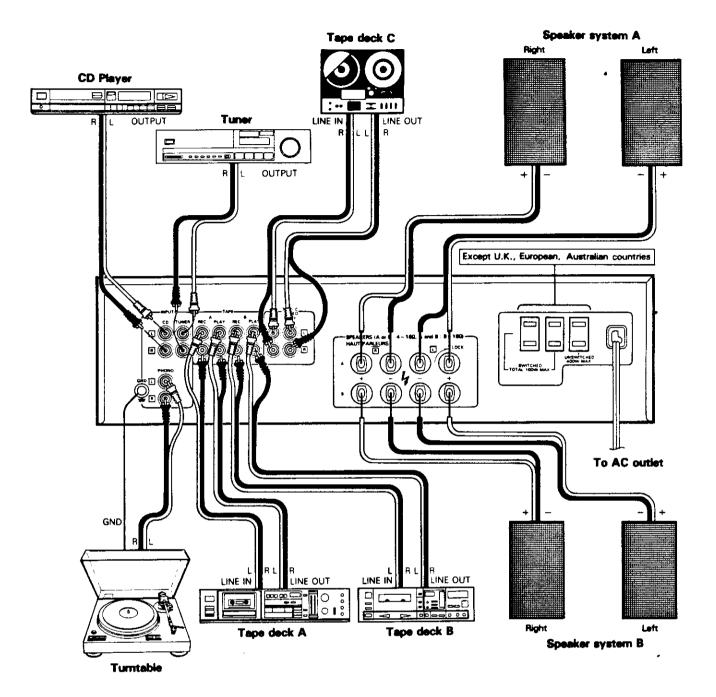


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

System connections



Speakers

This amplifier has two pairs of speaker terminals, SPEAKERS A and SPEAKERS B.

Connecting one speaker system

Connect speakers rated at 4 ohms or more to the SPEAKERS A terminals.

Connecting two speaker systems

To connect an additional pair of speakers, use the B terminals. In this case, each speaker must be rated at 8 ohms or more.

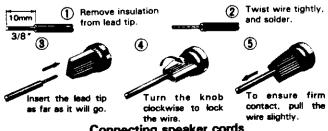
Notes:

- 1. During speaker systems connection, set the POWER switch to OFF
- 2. Check that the connected lead wires of the speaker systems do not contact other jacks or terminals.
- 3. When connecting one pair of speakers to the SPEAKERS A or B terminals, be sure that the impedance of each speaker is between 4 and 16 ohms. When connecting speakers to both SPEAKERS A

and B terminals, be sure that the impedance of each speaker is between 8 and 16 ohms.

WARNING!

Particular attention must be given to making good electrical contact at the amplifier-output and speaker terminals. Poor or loose connections can cause sparking or burning at the terminals because of the very high power that the amplifier can deliver. Follow these steps carefully.



Connecting speaker cords

Turntable

The unit can be connected to either type of turntable; one using MM cartridge or one using MC cartridge.

Connect the left channel of the turntable to the PHONO INPUT jacks and the right channel to the PHONO INPUT jacks.

If the turntable has a ground wire, connect it to the unit's GND terminal to avoid hum.

CD player

Connect the left channel of the CD player to the L CD INPUT jack and the right channel of the CD player to the R CD INPUT jack.

Tuner

Use the TUNER INPUT jacks for connection to an FM stereo or AM-FM stereo tuner.

Connect the left channel of the tuner to the TUNER INPUT jack and the right channel of the tuner to the RITUNER INPUT jack.

Ground

For maximum safety and minimum interference connect the GND terminal to a good earth ground if practicable. A good earth ground is a cold water pipe or a metal stake driven into moist earth. However, never use a gas pipe for this purpose.

Tape deck

Three tape decks can be connected to the unit. Use TAPE A, TAPE B and TAPE C/VIDEO jacks to connect 3 tape decks.

If only one tape deck is to be connected to the unit it is recommended that it be connected to the jacks marked TAPF Δ

A hi-fi video deck or graphic equalizer can also be connected to the unit. Connect the unit TAPE C/VIDEO jacks to the video deck or graphic equalizer.

(Never connect these jacks to the video outputs of the video deck.)

Playback

Plug the left and right output cables of the tape deck into the and TAPE PLAY jacks.

Record

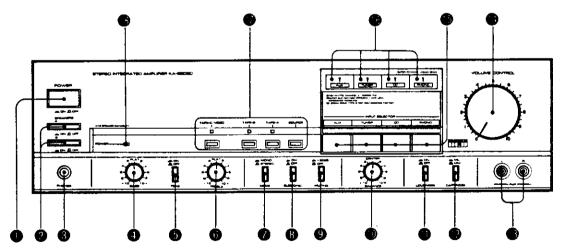
Plug the left and right input cables of the tape deck into the 📋 and 🖪 TAPE REC jacks.

AC outlets (Except U.K., European, Australian countries)

The AC outlets on the rear panel of the unit may be used to supply power to other components in the system, such as turntables, tape decks, etc. Never connect equipment whose power consumption exceeds the maximum value shown at each outlet.

- **1. SWITCHED outlets:** These outlets supply power only when the unit is turned on. The maximum total capacity (both outlets) is 100 watts.
- 2. UNSWITCHED outlet: The outlet provides power when the unit is plugged into an active AC wall outlet, regardless of the setting of the POWER switch. The maximum capacity is 400 watts.

Controls, indicators and connectors



POWER switch

Press this switch to turn on the power. To turn the power off, press the switch again to set it to the out position.

SPEAKERS switches

To obtain sound from the speakers connected to the SPEAKERS A terminals, set the A switch to ON.

To obtain sound from the speakers connected to the SPEAKERS B terminals, set the B switch to ON.

To use A and B speakers simultaneously, set both A and B switches to ON.

To listen with headphones, set both A and B switches to OFF.

Plug stereo headphones into this jack for private listening. The speakers are silenced when the SPEAKERS switches are set to OFF.

BASS control

Turn clockwise to increase bass response, counterclockwise to reduce bass response.

The "FLAT" setting provides a flat bass response.

O TONE switch

This switch provides flat frequency response by deactivating the tone control circuit. BASS and TREBLE controls do not operate when this switch is set to OFF. Set this switch to ON when the BASS and TREBLE controls are used.

TREBLE control

Turn clockwise to increase treble response, counterclockwise to reduce treble response.

The "FLAT" setting provides a flat treble response.

MODE switch

STEREO — This provides stereophonic reproduction of any stereo program source. The left channel is heard from the left speaker, and the right channel is heard from the right speaker.

MONO - Monaural reproduction. The left and right channels are mixed together and heard from both

speakers.

SUBSONIC switch

ON - With the switch in this setting, signals below 18 Hz are attenuated at the rate of 6 dB per octave. Although such signals are inaudible, they can cause intermodulation distortion components in the audible range. It is recommended that this switch be depressed at all times, even if no turntable rumble is apparent.

OFF — With this setting, the frequency characteristics are flat, which is suitable for extreme bass sound reproduction.

MUTING switch

Used to temporarily reduce the volume level. When the switch is pressed, the volume level is attenuated by 30 dB. To release muting, press this switch again.

BALANCE control

This control permits balancing of the left and right channels when an imbalance exists from the sound source, or to correct acoustic imbalance due to room conditions. Turn it to the left from the CENTER position to raise the left channel; turn it to the right of CENTER to raise the level of the right channel.

LOUDNESS switch

ON — Bass notes are boosted at low listening levels. This precisely offsets a characteristics of human hearing whereby we are less sensitive to bass notes at very low listening levels.

OFF — The low-level bass boost is removed. Use this setting for sound reproduction at high volume level.

CARTRIDGE selector switch

This switch is used to select the type of cartridge of the turntable connected.

MM — When using an MM (moving magnet) and an high output MC (moving coil) cartridge, set the switch to this position.

MC — When using an MC cartridge set the switch to this position.

AUX jacks

Temporarily used high-level signal sources such as, tuner, CD player, extra tape decks, TV, VTR sound outputs, mic preamps, etc. are connected to these jacks.

VOLUME CONTROL

This control adjusts left- and right-channel volume simultaneously. Set it for the desired listening level.

● INPUT SELECTORs

Used to select the program source connected to the IN-PUT jacks. To activate the INPUT SELECTOR, press the SOURCE button of tape/video selector switches. With the SOURCE button set to OFF, the INPUT SELECTOR cannot be activated.

AUX - To listen to the sound source connected to AUX jacks.

TUNER - To listen to the tuner sound connected to the TUNER jacks.

CD - To listen to the CD sound connected to the CD acks.

PHONO — To listen to the record sound connected to the PHONO jacks.

Input selector indicators

One of these indicators lights according to the INPUT SELECTOR pressed to indicate that one of AUX, TUNER, CD or PHONO is selected.

Tape/video selector switches, indicators

The TAPE-C/VIDEO button is independent of other buttons of the tape/video selector switches, which enables you to press the TAPE-C/VIDEO button with one of the other tape/video selector switches pressed; the TAPE-C/VIDEO button setting has priority over other tape/ selector switches.

When one of the TAPE buttons is pressed, the corresponding indicator lights.

TAPE-C/VIDEO - Press this button to play back the sound of the tape/video deck connected to the TAPE C/VIDEO jacks. With this setting, recmonitoring is also possible.

TAPE-B - Press this button to play back the sound of the tape deck connected to the TAPE B jacks.

TAPE-A - Press this button to play back the sound of the tape deck connected to the TAPE A jacks.

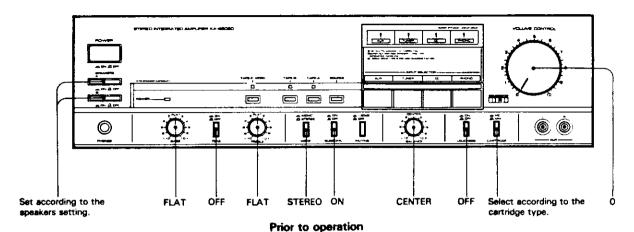
SOURCE - Press this switch to activate the INPUT SELECTORs. With this setting, program source selection with the INPUT SELECTORs is possible.

POWER indicator

Lights when the POWER switch is set to ON.

It is recommended that rarely used controls and switches be preset in accordance with your preference in order to simplify operation. Once these controls and switches have been preset, normal operation is simply

turning on the POWER switch and selecting the desired program source by depressing one of the INPUT SELECTOR switches.



Tuner

- Press the SOURCE button of the tape/video selector switches.
- Press the TUNER INPUT SELECTOR switch. The corresponding indicator lights.
- 3. Tune to the desired station.
- 4. Adjust the volume and tone.

Turntable

- Press the SOURCE button of the tape/video selector switches.
- 2. Turn the VOLUME CONTROL counterclockwise to temporarily mute the volume level.
- 3. Press the PHONO INPUT SELECTOR switch. The corresponding indicator lights.
- According to the type of phono-cartridge used, set the CARTRIDGE selector switch to appropriate position.
- 5. Operate the turntable connected to the PHONO jacks.
- 6. Adjust the volume and tone.

To listen to CD

- Press the SOURCE button of the tape/video selector switches.
- 2. Press the CD INPUT SELECTOR. The corresponding indicator lights.
- 3. Operate the CD player connected to the CD jacks.
- 4. Adjust the volume and tone.

AUX

- Press the SOURCE button of the tape/video selector switches.
- Press the AUX INPUT SELECTOR switch. The corresponding indicator lights.
- Operate the component connected to the AUX jacks.
- Adjust the volume and tone.

Tape decks

Tape playback

- Press the appropriate tape/video selector switch. (For example, to play back tape deck A, press the TAPE A button.)
- Operate the tape deck to playback your recorded tape.
- Adjust the volume and tone.
 Using the TAPE C/VIDEO jacks, the audio output of a hi-fi video deck can also be enjoyed. For details, refer to the Instruction Manual of the video deck.

Recording (with one tape deck)

- Connect the tape deck to the TAPE A, TAPE B or TAPE C/VIDEO jacks.
- Press the SOURCE button of the tape/video selector switches and select the program source to be recorded with the INPUT SELECTORs.
- 3. Set up the program source component for operation and set up your tape deck for recording.
- 4. Set recording levels with the controls on your tape deck. The controls on the unit do not affect the signal output to the tape deck.

Recording (with two and/or three tape decks)

- Connect the tape decks to the TAPE A, TAPE B and/or TAPE C/VIDEO jacks.
- Press the SOURCE button of the tape/video selector switches and select the program source to be recorded with the INPUT SELECTORs.
- Set up your two and/or three tape decks for recording.
- Recording levels should be set using controls on the individual tape decks.
 - Using the TAPE C/VIDEO jacks, the program source selected by the INPUT SELECTOR can be recorded on a hi-fi video deck. For details, refer to the Instruction Manual of the video deck.

Tape-to-tape dubbing

When two tape decks are connected to the TAPE A, B and TAPE C/VIDEO jacks, tape recordings may be duplicated easily using one tape deck to play the prerecorded tape and the other tape deck to record the copy.

Dubbing from tape deck A to tape deck B/C

- Press the TAPE-A button of the tape/video selector switches.
- Set tape deck A to playback mode and tape deck B/C to recording mode.
- 3. The recording level should be set with the controls on the tape deck B/C.

Dubbing from tape deck B to tape deck A/C

- Press the TAPE-B button of the tape/video selector switches.
- Set tape deck B to playback mode and tape deck A/C to recording mode.
- 3. The recording level should be set with the controls on the tape deck A/C.

Monitoring

If your tape deck is equipped with three heads, you can compare the sound quality of the recording in progress with that of the program source.

Connect the tape deck to the TAPE C/VIDEO jacks. (Connecting to other than the TAPE C/VIDEO jacks makes monitoring impossible.) Press the TAPE-C/VIDEO button of the tape/video selector switches.

Recording another program source on tape deck A/B while playing back tape deck C

- 1. Press the SOURCE and TAPE-C/VIDEO buttons of the tape/video selector switches.
- Select the program source to be recorded with the INPUT SELECTOR.
- 3. Set up the program source component for operation and set up tape deck A/B for recording.
- 4. Set the recording level with the rec level control on tape deck A/B.
- 5. Set tape deck C to playback mode.

Thermal protector

This unit employs the thermal protector circuits which automatically shuts off the power or operates muting if the temperature inside the amplifier becomes unusually high. The protector automatically restores the power when the temperature drops to the normal level and the cause of the unusual temperature rise must be removed before the power is restored. Unusually high temperatures may be caused in poor ventilation condition or by a shorted output circuit.

Speaker protection circuit

Should the POWER switch be set to ON with the speaker cords short circuited, the speaker protection circuit functions and the power indicator flickers.

At that time, the muting circuit still functions even if the short circuit is eliminated. Turn the power off once, then supply power again. Normal operation is resumed.

In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
No sound from both speakers.	Speakers switched off. Speaker cords disconnected. VOLUME CONTROL set fully counterclockwise.	Check SPEAKER switches. Check speaker connections. Set the control to your preference. A Set the switch to OFF.
	4. The MUTING switch is activated.	4. Set the switch to OFF.
Sound from left or right, but not both.	Poor speaker connections.	Check connections at both ends of speaker cord.
	BALANCE control set to one extreme or the other.	2. Check BALANCE control setting.
No sound of the program source selected by the INPUT SELECTOR (PHONO, CD, TUNER, AUX)	SOURCE button set to OFF.	Press the SOURCE button.

Specifications

EIA			
Power Amplifier Section			
Power Output			
	ninimum RMS, both channels		
	Iz to 20,000 Hz with no more		
than 0.005% total harmonic	: distortion		
Both Channels Driven into			
	105 W+105 W (Except USA,		
♥ ₩1010 EL 1 M/16	Europe, U.K. and Canada)		
4 ohms at 1 kHz	140 W + 140 W (Except USA,		
	Europe, U.K. and Canada)		
Dynamic Power Output			
	USA, Europe, Australia, U.K. and		
	Canada)		
Total Harmonic Distortion			
(AUX→SPKR 8 Ω)			
at Rated Output,			
20 Hz ~ 20,000 Hz	0.005%		
at 1/2 Rated Output,			
20 Hz - 20,000 Hz			
at Rated Output, 1,000 Hz			
(PHONO—SPKR 8 Ω : at -20	dis volume Level)		
at Rated Output,	0.0050/		
20 Hz ~ 20,000 Hz	U.UU5%		
Intermodulation Distortion (60 Hz:7 kHz = 4:1)	0.00E9/ at rated ======		
(OU FIZ: / KMZ = 4:1)	0.005% at rated power into 8 ohms		
Damping Factor			
Transient Response	1,000, at 50 Hz into 6 Offins		
Rise Time	1 7 ns		
Frequency Response			
1 requestry respective	+0 dB, -3 dB		
Speaker Impedance			
Input Sensitivity/Impedance			
Phono MM	2.5 mV/47 k ohms		
Phono MC			
TUNER, AUX., TAPE PLAY,	-		
TAPE C/VIDEO	150 mV/47 k ohms		
Signal-to-Noise Ratio (IHF-A)			
Phono MM			
Phono MC	70 dB for 250 µV input		
TUNER, AUX., TAPE PLAY	. 107 dB		
Maximum Input Level for Phono			
	200 mV (RMS), T.H.D. 0.005%		
MC	15 mV (RMS), T.H.D. 0.005%		
	at 1 kHz		
Output Level/Impedance			
TAPE REC (Pin), TAPE C/VIDEO.			
Frequency Response for Phono	noRIAA standard curve ±0.3 dB		
	(20 Hz to 20,000 Hz)		
Tone Control	. 10 dp 100 H-		
Bass			
Treble	± IU OB at IU KMZ		
Loudness Control	, 0 dB 100 H-		
(at -30 dB VOLUME Level)			
Subsonic Filter	10 mZ, 0 0B/OCL		
General			
	3.3 A (USA and Canada : UL and		
rower Constant poors	3.3 A (USA and Canada : UL and CSA)		
	220 W (Others)		
AC Outlets			
	(Except U.K., European, Australian		
	countries)		
Dimensions			
	H: 133 mm (5-1/4")		
	D: 333 mm (13-1/8*)		

Measured pursuant to Federal Trade Commission's Trade Regulatio rule on Power Output Claims for Amplifier in U.S.A. IEC		
Rated Power Output		
8 ohms at 20 Hz to 20,000 Hz		
no more than 0.005% THD (FTC)	100 W + 100 W	
4 ohms at 63 Hz to 12.5 kHz		
no more than 0.7% THD (IEC/NF)	120 W + 120 W	
Total Harmonic Distortion		
Rated Power Output into 8 ohms	0.005%	
Intermodulation Distortion	0.005%	
Frequency Response	1 Hz ~ 150 kHz	
• • •	+0 dB, -3 dB	
S/N Weighted: Rated Output Power (IEC-A)		
() = Unweighted at 50 mW (DIN)		
Phono MM	86 dB (55 dB)	
Phone MC	70 dB (60 dB)	
TUNER, AUX., TAPE PLAY	107 dB (57 dB)	
Damping Factor at 8 ohms, 50 Hz		
Transient Response		
Rise Time	عبر 1.7	
Input Sensitivity/Impedance		
Phono MM	2.5 mV/47 kΩ	
Phono MC	0.2 mV/100 🛭	
TUNER, AUX., TAPE PLAY, TAPE C/VIDEO	150 mV/47 kΩ	
Tone Control		
Bass 100 Hz	± 10 dE	
Treble 10 kHz	+ 10 dE	
Loudness Control (– 30 dB)		
Subsonic Filter		
General		
Power Consumption		
	220.14	

EC......220 W

Weight (Net) 9.4 kg

H: 133 mm D: 333 mm

D: 333 mm (13-1/8*)

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.