

EL POCO DC-20

STEREO MINI-COMPONENT SYSTEM

DC-20X CASSETTE-AMPLI-TUNER DC-20P POWER AMPLIFIER DC-20S SPEAKER SYSTEM







The rewarding world of professional hi-fi

Today, there's a wide choice in miniaturized stereo component systems available. Some of them reproduce music perfectly adequately for those whose demands are low-keyed. But for anyone with high ambition in terms of quality sound reproduction, the average portable mini system must seem out of the question. The DC-20 solves this

dilemma mainly because it is designed specifically for the hi-fi fan. A check through the specifications will bear this out. The DC-20 is not simply a portable and space-saving stereo system. It is primarily a hi-fi system. Let's review the individual sections and see why.

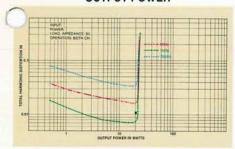
The amplifier (DC-20P)

Renty of power with low stortion

20 watts per channel min. RMS, both channels driven into 8 ohms, 40Hz to 40kHz, with no more than 0.1% total harmonic distortion.

Every audiophile in search of a hi-fi system looks first at this important rating. Sufficient power to drive the speakers without "clipping" during transient dynamic signal peaks is one requirement. But what is equally important is that harmonic distortion is kept at minimum levels across the designated frequency range. In the graph, you can see a power/distortion rating that guarantees the excellent basic performance of the DC-20.

TOTAL HARMONIC DISTORTION VS OUTPUT POWER



The tuner (DC-20X)

Quartz synthesizer scan tuning is not only easier, it's highly accurate

The DC-20 tuner section clearly demonstrates the advantages of an on-board microcomputer coupled with advanced tuner circuitry. So far as tuning chores are concerned, they barely exist. Tuning is automatic. Set the switch to AUTO and press one of the digital tuning keys and the tuner quickly scans the band to find the

nearest available active station. Switch over to MANUAL mode and each press on a tuning key sends the tuner one channel frequency up or down the band. Hold a tuning key down and you can quickly locate a particular frequency-an easy way for memory presetting. But there's more to the tuning system than convenience. Its advanced type quartz-referenced phase-lock-loop (PLL) synthesizer circuitry is also highly accurate. When an active station appears out of the silence, it is already locked to deadcenter of the frequency, where distortion and noise are least. This is why no fine-tuning knob is necessary.

Direct tuning via memory presets

For extra convenience, you can store 10 favorite stations (5 for FM and 5 for AM broadcasts) into the memory bank. These can then be instantly summoned whenever a STATION CALL key is pressed.

High quality broadcast reception

In the field of tuner circuitry, Kenwood engineers rank among the most expert in the world. To the knowledgeable hi-fi enthusiast therefore, it should come as no surprise to find such excellent tuner performance in the DC-20. A look at the relevant specifications tell an expert that this tuner section's performance is superb.

The cassette deck (DC-20X)

Computer-controlled functions are backed by rugged, nocompromise tape drive system

In any cassette deck, it's the stability

and uniformity of the tape transport that determines the accuracy of music reproduced from the delicate cassette tape. Thus, in the DC-20, the cassette deck sector is designed and built to perform just like an independent hi-fi deck. It provides the low wow-and-flutter (0.05%) rating that proves, once again, that the DC-20 is capable of excellent hi-fi performance.

Hard Permalic magnetic head and metal tape capability help to provide extended frequency response, wide dynamic range

The range of tones that a cassette deck can reproduce without distortion is also an important factor in assessing its performance. In the DC-20, an advanced Permalic magnetic head that's specially designed for use with new metal tape extends frequency response to a high 16kHz.

The speaker system(DC-20S)

High quality sound reproduction and rich, dynamic music content

Although these are relatively small speakers, modern techniques of speaker analysis and construction give them a high quality output that will both surprise and delight you. Here is more evidence of the expertise of Kenwood sound engineers which you can easily verify. The speaker enclosures are ruggedly constructed for low resonance and are covered with aluminum sheet with an attractive matte silver finish. Secondary, battery-pack powered monitor speakers are also built into the sides of the DC-20X cassette-tuner "core."



Computer-guided automatic cassette systems that work for you

DPSS: the tape deck's automatic music search system

The DC-20 incorporates a microprocessor and logic control system to provide a totally new concept in easy taped music play. While old-fashioned cue/review systems provide some limited access to music on tape, they are complicated and require more effort than many people are prepared to make. The Kenwood DPSS, however, is a computer-guided system that automatically supplies you with any particular musical piece you wish to hear. For example, if you'd like to skip four tunes ahead and listen to the fifth one, you just press the FF key five times. The deck then quickly locates each unrecorded gap between tunes until it comes to the fifth one, and starts playing from there. The same thing happens in reverse, except that you need one extra press on the REW key. You can do this for a total of 7 music selections forward or 6 back. The DPSS display keeps you fully informed of current operations, while an LED "dot" indicator confirms your designated number of selections and provides a countdown of selections as they are passed through.

Repeat the current tune up to 7 times

Here's another useful facility provided by the computer. During playback, press the PLAY key for the number of times you'd like to repeat the current tune. The display panel shows operational status and the dot counter LED's, which illuminate for the number of repeats designated, extinguish one-by-one as each repeat ends. Automatic repeat can be cancelled at any time by a press on the STOP key.

Indefinite repeat of the entire cassette side

A further valuable feature provided by the cassette deck is to repeat an entire side continuously and indefinitely until commanded to stop. Just press PLAY and FF keys at the sam, time and flashing LED's in the display panel above remind you that the repeat function is in operation. A press on the STOP key cancels auto-repeat at any time.

The DC-20 out in the open









- For outdoor recording sessions
- A vinyl leather case for the cassette-amplituner (DC-20X) "core" (CC-20S)
- Open-sided, tough but lightweight aluminum case (CC-20K)
- 4 For safe transporting, a trunk type aluminum case leaves controls accessible (CC-20T)

More highlights of the DC-20

Constant music availability: SOURCE STAND BY

When listening to broadcasts, you can instantly change over to tape just by pressing the tape Play key. Similarly, at the end of a tabe, the DC-20 can automatically go into broadcast reception mode.

LED graphic display of DPSS and REPEAT · "Flying-start" recording

This allows you to continue with a new recording immediately after listening to a previously recorded track, without passing through Stop mode

AUTO REC MUTE key

One press provides an automatic silentrecording space of about 5 seconds for effective DPSS intertrack location.

- Digital frequency display
- Microphone mixing

•TIMER STAND BY

Connect an audio timer for timed start and stop of listening and recording sessions.

One-touch REC & PAUSE switch

Recordings are started with just a single press on this key, which also serves as a recording/ pause stand-by selector.

- Two speaker system connection With front panel switching.
- •Independent Bass and Treble pushbutton tone controls
- Loudness switch for low-volume listening
- Dolby* noise reduction system reduces noise and tape hiss
- ·Accusonic "ambience" switch

Here's a useful feature that improves the stereo image if you are listening close to the DC-20. Further away, Accusonic can be switched off.



AD-15

Car Battery Adaptor for DC-20

- •DC-AC inverter 12-13.5V DC input, 110-120 or 220-240V output voltages
- •Functions as part of the DC-20 system

SPECIFICATIONS

DC-20P (POWER AMPLIFIER)

Power Output

20 watts per channel minimum RMS, both channels driven at 8 ohms from 40Hz to 20kHz with no more than 0.1% total harmonic distortion.

Both Channels Driven into 8 ohms at 1kHz. 24 watts + 24 watts

Dynamic Power Output into 8 ohms...... 70 watts

Total Harmonic Distortion rated

..... 0.01% output at 1kHz Signal to Noise Ratio (IHF-A) 100dB

Frequency Response 10Hz to 100kHz

DC-20X (CASSETTE-AMPLI-TUNER)

Motor

Wow & Flutter

Frequency Response

Metal Tape ...

REC / PLAY

ERASE

Normal Tape, CrO₂ Tape 25Hz-15kHz

...... 25Hz-16kHz

AUDIO SECTION	
Monitor Speaker	5"×3" Cone Type Full Range Speaker
Monitor Power Output	
Pre Output Level	
Rec Output Level	
Signal to Noise Ratio (IHF-A)/Input Sensitivity	
Phono	
AUX	
Mic	
Frequency Response	5555/2:5111
Phono RIAA Response	30Hz to 15kHz + 0.2dB
Tone Control	Some to rount 2 stead
Bass	+ 10dB at 100Hz
Treble	
Loudness (– 30dB Vol.)	
FM TUNER SECTION	7 000 01 100112
Tuning Frequency Range	87.5MHz to 108MHz
Usable Sensitivity	13.2dBf (2.5uV/300 ohms)
Total Harmonic Distortion at 1kHz	
Mono	0.4%
Stereo	
Signal to Noise Ratio at 65dBf Mono	67dB
Stereo	
Frequency Response	
Image Rejection Ratio	
Alternate Channel Selectivity	
Stereo Separation	
	30dB at 50Hz to 10kHz
AM TUNER SECTION	
Tuning Frequency Range	530 to 1,620kHz (USA & Canada)
	522 to 1,611kHz (Others)
Usable Sensitivity (Loop)	
Signal to Noise Ratio	
Selectivity	
CASSETTE DECK SECTION	THE PARTY OF THE P
Track System	4-Track 2-Channel Stereo Recording/

Playback

Electronically Controlled DC motor

Permalic Hi-B Permalloy Head

0.05% (WRMS), 0.18% (DIN)

Sendust Alloy Ferrite Head

60dB (Nor) at Dolby ON.

DC-20 S (SPEAKER SYSTEM)

System	. 2 way, 2 Speakers
Enclosure	. Bass-Reflex (Passive Radiator type)
Mounted Drivers	
Low-Mid Freq. Driver	. 100mm (4") Cone Type
High Freq. Driver	. 25mm (1") Dome Type
Impedance	. 8 ohms
Maximum Input Power	. 30 watts
Sensitivity	. 87dB/w at 1m
Frequency Response	. 70Hz to 20kHz
Crossover Frequency	. 3kHz

rinish	****************	. Aluminum sneet		wrapped particle		
		board	with	silver	painted	finish

GENERAL	DC-20X	DC-20P	DC-20S
Power Requirement	60Hz, 120V (USA E	Canada) or 50/60Hz	_
	110-120/220-240	V	-
Battery Drive	DC-12V	_	-
AC Outlet	—	Switched 1	_
Power Consumption	40 watts	120 watts at rated power output	=
Weight	13.7 lbs (6.2kg)	7.7 lbs (3.5kg)	5.5 lbs (2.5kg)
Dimensions W	11-13/32" (290mm)	11-13/32" (290mm)	5-1/32" (128mm)
Н	9-3/16" (233mm)	3-5/16" (79mm)	12-5/32" (309mm)
D	5-29/32" (150mm)	5-29/32" (150mm)	5-3/32" (129mm)
DC-20XP H	12-5/32" (309mm)	- I - L West Harry	

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

A product of

TRIO-KENWOOD CORPORATION

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