

Real drum sounds using digital PCM recordings of real drums and percussion.

The DDM-110/220 each offer nine digitally recorded real drum and percussion sounds. Patterns and songs are recordable so you can save all of your compositions. Drum sounds featured in the DDM-110 are bass, snare, rimshot, low tom, high tom, closed hi-hat, open hi-hat, cymbal, and handclaps. The DDM-220 has high conga, low conga, timbale, woodblock, cowbell, high agogo, low agogo, cabasa, and tambourine. For combined drums and percussion just sync the DDM-110 and DDM-220 together with a single cable. You can program patterns in two ways. In real time you play several instruments at once or overdub an instrument at a time like you would play a drum kit. For trickier licks you can program a step at a time. Editing is also possible in both modes so you can easily erase and change things. Up to 32 different patterns can be stored on-board and these

write in repeat signs. A fast tape interface lets you save an unlimited number of rhythm patterns and songs. You can even use the DDM-110 and DDM-220 as live percussion instruments—play along by tapping the keys. Besides synchronized play with two of these units, you can also sync them up with MIDI and other units by adding the KMS-30 MIDI synchronizer, also from Korg. For compact size, PCM sound realism, and a breakthrough price, nothing comes close to the Korg DDM-110/220.

SUPER DRUMS

you can

PROGRAMMABLE DIGITAL DRUM MACHINE DDM-110



SUPER PER

Programmable digital dr





SUPER SUPER ROGR ABLE DIGITAL DRUM MACHINE DDM-220 ABLE DIGITAL DRUM MACHINE DDM-220 CABASA VOLUME VOLUME TOP SONG REPT INS DEL MEM AVAIL ESTIMATION ON TOWN ON

Highlights

Pattern Recording

Store up to 32 patterns of one or two bars each. Write the patterns in two ways.

Real time write

Start the metronome and play along by tapping the keys. Play several sounds or overdub one or two sounds at a time.

Step time write

Ideal for tricky, high resolution rhythms, and when working from a score. Step time lets you write sounds to individual beats without regard to tempo.

Song Recording

Now take your 32 rhythm patterns and link them together to make songs. Maximum song length is 390 bars.

Pattern Play

Select any of your 32 patterns for instant playback.

Song Play

Songs that you recorded can be played back at any tempo. You can also repeat songs and edit them by adding or taking away particular bars anywhere in the song.

•Real Time Play

The DDM-110 or DDM-220 can take the place of real drums and percussion. Play along by tapping the keys. PCM digitally recorded sounds deliver unbelievable

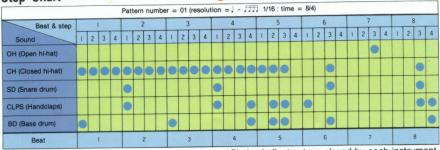
Tape Interface

Store your rhythm patterns and songs on cassettes for later access. Everything is handled as digital data so there's never any added noise or distortion. Saving data to tape and loading it back into internal memory is fast and easy.

Step Time Write



Step Chart



Resolution

Resolution is the value of the smallest note in a pattern. On the DDM-110 you have a choice of three resolutions which can be used with various time signatures. High resolution is desirable when writing syncopated or funky patterns. Low resolution makes it easier to write patterns in real time.

*Circles indicate steps played by each instrument.

Resolution	Applications		
J = JJJJ 1/16	4 steps per beat; for 8-beat & 16-beat rhythms.		
] =]]]]] 1/16 Triplet	6 steps per beat; for jazz swing rhythms and others using triplets.		
1/32	8 steps per beat; for 32-beat rhythms.		
	J = JJJJ 1/16 J = JJJJJ 1/16 Triplet		

Features



Front Panel

1 RECORD switch

The ENABLE setting lets you write new patterns and songs. The DISABLE position protects your compositions.

2 SONG & PATTERN multi-function keys

These step you through multiple functions so you can use the number keys for various purposes. LEDs indicate your selected function.

3 NUMBER keys

These ten keys are used for "playing" the different instrument sounds and for other purposes, according to the function selected by the SONG & PATTERN keys. This is easily checked by looking at the LEDs.

4 START/STOP key

Press once to start playback, again to stop.

5 ENTER key

This works in several ways depending on the mode and whether it is pressed with the SHIFT key.

- Used when specifying resolution.
- Used to erase previous memory contents to make space for new
- Used when writing in repeat signs and number of repeats.
- Has editing functions.
- Used to advance to the next step when writing in the step time mode.

6 SHIFT key

Switches the function of START/STOP and ENTER keys. Also used when erasing sounds.

7 Tempo controls

- COARSE: For general tempo adjust
- FINE: For fine adjustment.
- •TEMPO INDICATOR: LED flashes in time with the beat.

8 VOLUME controls

- •MASTER: For overall adjustment of
- OHH CYMBAL (DDM-110): Adjusts relative volume of hi-hat and cymbal sounds.
- CABASA TAMBOURINE (DDM-220): Adjusts relative volume of cabasa and tambourine sounds.
- METRONOME: Adjusts metronome volume

9 Display

PHONES output jack

Shows a wealth of information to keep track of what's happening

STARTISTOP input jack

TRIGGER output jack

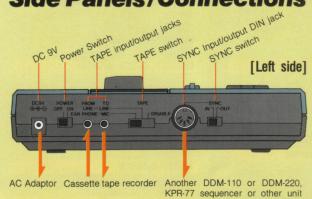
	Function Key Settings		Number Key Functions
	EDIT LED is on		Used for editing songs and adding repeat signs.
	SONG LED is on	•	Lets you select a song number for recording or playback.
	PATTERN LED is on	•	Ready for selection of a pattern number for recording or playback.
	INST LED is on	•	Each key generates the instrument sound written below it. The accent key gives a louder, accented souond when pressed with another key.
	INITIAL LED is on		Lets you select resolution and beats per bar (time signature) for any pattern that you wish to write.

equipped with a sync jack. KMS-30

for sync to tape or connection to

MIDI equipment.

Side Panels/Connections



[Right side] \bigcirc Foot switch (Korg PS-1 Headphones Amplifier or Trigger input mixing console synthesizer. or similar).

STEREO output jacks

Typical System Connections

Synchronized play of DDM-220 and DDM-110 or KPR-77.

SYNC OUT

DDM-110 or KPR-77

SYNC IN
DDM-220

2 Using the KMS-30 for synchronized play of the DDM-110/220 and another rhythm machine (non MIDI).

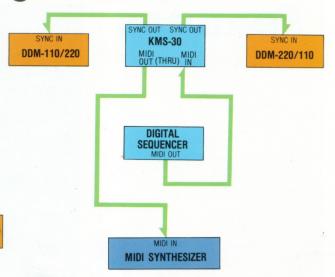
SYNC OUT
OTHER
RHYTHM MACHINE
SYNC IN

SYNC IN SYNC OUT

KMS-30

SYNC OUT SYNC IN

DDM-110/220 (J=48) SYNC OUT Digital sequencer used to control DDM-110, DDM-220, and other equipment.

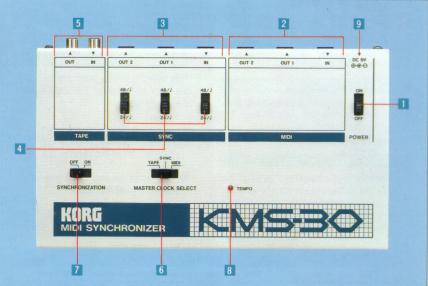


KW2-30

MIDI SYNCHRONIZER

Korg presents the solution to timing problems between drum machines, sequencers, and tape decks. Especially exciting is the KMS-30's ability to sync MIDI and conventional units. Now you can use a conventional sync signal to control a MIDI instrument or use MIDI timing and start/stop data to run a non-MIDI drum machine. Just as valuable is syncto-tape capability. Put a MIDI or other sync signal on tape then sync up with it again for overdubs.

For maximum compatibility the sync in/out jacks can be set to 24 or 48 clock pulses per beat. For extra versatility the two MIDI outputs work as MIDI THRU jacks when your master timing signal is coming from a MIDI unit. You'll also appreciate the synchronization ON/OFF switch. It lets you keep connected while playing in real time, then switch to a synchronized sequence whenever you like. At last you can put it all together with one compact interface—the KMS-30 from Korg.



Features

- Power switch
- 2 MIDI jacks

You have one input and two outputs. The input can be used to obtain MIDI clock data from a MIDI equipped synth, sequencer, or rhythm machine. In this case the MIDI outputs work as MIDI THRU jacks, providing all MIDI data from the source unit.

3 SYNC jacks

Again, there are two outputs and one input. The input can be used to drive the MIDI outputs (as well as the SYNC outputs) or you can drive the SYNC outputs from a master MIDI input.

4 Clock frequency swithches

Input and output jacks have individual switches for setting clock frequency (pulses per beat) to 24 or 48.

5 TAPE jacks

The KMS-30 can convert sync or MIDI timing signals to a special tape clock signal that is easily recorded on your multi-track machine. During tape playback you can sync your drum machines, sequencers, and synths to the tape clock to enable multiple overdubs using the same equipment (MIDI or not). the KMS-30 keeps everything in perfect time.

6 MASTER CLOCK selector

Choose MIDI, SYNC, or TAPE to be your master clock source.

7 SYNCHRONIZATION ON/OFF switch

Turns synchronization on and off between MIDI, SYNC, and TAPE sections.

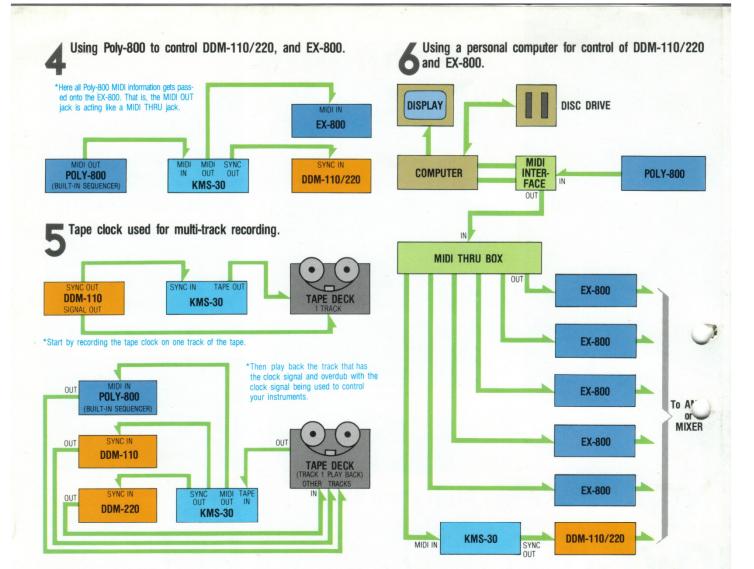
8 TEMPO indicator

This LED flashes in time with the beat.

9 DC 9V input

For connecting the AC adaptor.





SUPER DDM-110/SUPER DDM-220 SPECIFICATIONS

■TONE GENERATORS—DDM110: Bass Drum, Snare Drum, Rimshot, High Tom, Low Tom, Closed High-hat Open High-hat, Cymbal, Handclaps. ■TONE GENERATORS Open High-hat, Cymbal, Handclaps. ■TONE GENERATORS DDM-220: Hi Conga, Lo Conga, Timbale, Woodblock, Cowbell, Hi Agogo, Lo Agogo, Cabasa, Tambourine.
■ACCENT: All Instruments; ON/OFF; Stop. ■TEMPO CONTROL: Coarse (SLOW ~ FAST); FINE (+ ~ ~); Tempo indicator. ■VOLUME: Master, Metronome, HH/Cymbal (DDM-110), Cabasa/Tambourine (DDM-220).
■PATTERN KEYS: Pattern Mode, Instrument Mode, Initial Mode; Record Mode. ■SONG KEYS: Song Mode, Pattern Mode, Initial Mode; Record Mode. ■SUMBER KEYS

Mode, Edit Mode, Record Mode. INUMBER KEYS (SOUND SOURCE KEYS): Pattern Number Select, Song Number Select, Instrument Select, Initial Select, Pattern Frase, Song Initial Bar Select, Repeat, Repeat Time
Select, Song Repeat (ON/OFF), Insert, Delete, End,
Memory Avail, Tape Interface (Save, Load, Verify).

RECORD SWITCH: ENABLE/DISABLE START/STOP
KEY: START/STOP ENTER KEY: Enter, Step Up/Down, Cancel. ■SHIFT KEY: Enter Key Function Select; Continue

Start; Instrument Erase. PATTERN MEMORY: 32 Patterns (Maximum number of steps: 32 for pattern numbers 1 − 16; 16 for pattern numbers 1 − 32). ■SONG MEMORY: 6 Songs; Maximum Memory Capacity: 385 − 390 bars. □ISPLAY: Pattern Number, Song Number, Bar Number, Step Number, Beat Count, Key Number, Memory Avail, Tape Interface Modes, Battery Check. ■SYNC: 5-Pin DIN Jack IN/OUT Switch. ■TAPE INTERFACE: Tape Switch (DISABLE/FROM/TO), FROM Jack, TO Jack. ■INPUTS: DC 9V; Start/Stop (☐ GND). ■OUTPUTS: Stereo Out (R/MIX, L), Phones, Trigger Out (☐ GND). ■POWER SUPPLY: Six 1.5V "Penlight" AA size (SUM-3) batteries or AC adaptor (DC 9V, 300 mA), Power Switch. ■DIMENSIONS: 226(W) × 196(D) × 49(H)mm ■WEIGHT: 880g (including batteries) ■SUPPLIED ACCESSORIES: Shielded Audio Cord (2.5m), Batteries (UM-3 × 6), AC adaptor. (Maximum number of steps: 32 for pattern numbers 1 ~16;

OPTIONAL ACCESSORIES

Pedal Switch/PS-1 Stereo Headphor

5-Pin DIN Cord Soft Case

SPECIFICATIONS

■MIDI SECTION: MIDI IN×1, MIDI OUT×2, ■SYNC SECTION: SYNC IN×1, SYNC OUT×2, 24/48, Clock Frequency Switches×3 ■TAPE SECTION: TAPE IN×1 TAPE OUT × 1 ■SYNCHRONIZATION: ON/OFF × 1
■MASTER CLOCK SELECT: MIDI/SYNC/TAPE Selector x 1 TEMPO: LED Indicator x 1 MPOWER:

ON/OFF x 1 MINPUT/OUTPUT JACKS: MIDI IN x 1 (DIN Jack), MIDI OUT x 2 (DIN Jacks), SYNC IN x 1 (DIN Jack), SYNC OUT x 2 (DIN Jacks), TAPE IN x 1 (RCA Phono Jack) TAPE OUT x 1 (RCA Phono Jack), DC9V IN x 1 MDIMENSIONS: 232(W) x 35(H) x 131(D)mm ■WEIGHT: 850g ■SUPPLIED ACCESSORIES: AC Ada

OPTIONAL ACCESSORIE

*Specifications and features are subject to change without notice for further improvement

Korg products are manufactured under strict specifications and voltages required by each country. These products are warranted by the Korg distributor only in each country. Any Korg product not sold with a warrany card or carrying a serial number disqualifies the product sold from the manufacturer soldistributor's warranty and liability. This requirement is for your own protection and safety.

