

D-110

MULTI TIMBRAL  
SOUND MODULE

SAMPLE COLLECTION BY

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# INFORMATION

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The D-110 is a true synthesizer, extensive editing of the so called 'partials' (operators) that are used to build tones is possible. But, the aim of this project was to digitize the D-110 factory preset tones, not to create a virtual synthesizer. The D-110 uses Linear Arithmetic (LA) Synthesis and ROM samples. The D-110 tones are built from a maximum of four so called 'partials': either short PCM samples or synthesized waves (square and saw waves).

The D-110 has two tone banks called 'preset tones' (banks A and B in this collection) and one rhythm set (bank D). Also included is an expansion (bank C). In this sample collection, these banks have been created by sampling the partials, and combining them as they are combined in the D-110. Some tones use ring modulation, these have been sampled 'as is'.

Notes have been sampled from midi number 024 (C0) to 96 (C6). Most instruments have repeating samples in the higher regions, these have not been sampled.

Sustained tones have been sampled up to the point where they repeat (and then, looped, as they are looped in the D-110).

All samples have been recorded at 44,000 kHz/16-bit. In some tones, noise may be heard at the end of samples, due to the analogue recording and the base material from the D-110. This could not be avoided, because the D-110 does not have a digital output. Noise reduction has not been applied, as it also alters the sound. If required, a quicker fade out can be applied using the ADSR parameter settings in Kontakt.

The internal reverb from the D-110 has been disabled: Kontakt has many built-in reverbs (and other effects). Samples would have become much larger had reverb been included, and it can't easily be removed once it's been recorded within the sample. A convolution reverb has been added, but can easily be disabled 'under the hood' in Kontakt.

Some D-110 tones are velocity sensitive: brighter when played harder. This has been emulated on all tones by sampling the brightest sound (maximum velocity) and providing a Kontakt low pass filter that reacts to velocity. As a bonus, high pass, resonance and LFO filtering has been included, as well as ADSR editing, from the front panel.

# TONES

No.	Tone name
TONE BANK A	
A11	Acoustic Piano 1
A12	Acoustic Piano 2
A13	Acoustic Piano 3
A14	Honky-Tonk Piano
A15	Electric Piano 1
A16	Electric Piano 2
A17	Electric Piano 3
A18	Electric Piano 4
A21	Electric Organ 1
A22	Electric Organ 2
A23	Electric Organ 3
A24	Electric Organ 4
A25	Pipe Organ 1
A26	Pipe Organ 2
A27	Pipe Organ 3
A28	Accordion

No.	Tone name
TONE BANK A	
A31	Harpsichord 1
A32	Harpsichord 2
A33	Harpsichord 3
A34	Clavinet 1
A35	Clavinet 2
A36	Clavinet 3
A37	Celesta 1
A38	Celesta 2
A41	Violin 1
A42	Violin 2
A43	Cello 1
A44	Cello 2
A45	Contrabass
A46	Pizzicato
A47	Harp 1
A48	Harp 2

No.	Tone name
TONE BANK A	
A51	Strings 1
A52	Strings 2
A53	Strings 3
A54	Strings 4
A55	Brass 1
A56	Brass 2
A57	Brass 3
A58	Brass 4
A61	Trumpet 1
A62	Trumpet 2
A63	Trombone 1
A64	Trombone 2
A65	Horn
A66	French Horn
A67	English Horn
A68	Tuba

No.	Tone name
TONE BANK A	
A71	Flute 1
A72	Flute 2
A73	Piccolo
A74	Recorder
A75	Pan Pipes
A76	Bottle Blow
A77	Breath Pipe
A78	Whistle
A81	Saxophone 1
A82	Saxophone 2
A83	Saxophone 3
A84	Clarinet 1
A85	Clarinet 2
A86	Oboe
A87	Bassoon
A88	Harmonica

# TONES

No. Tone name

## ZONE BANK B

B11 Fantasy

B12 Harmo Pan

B13 Chorale

B14 Glasses

B15 Soundtrack

B16 Atmosphere

B17 Warm Bell

B18 Space Horn

B21 Echo Bell

B22 Ice Rains

B23 Oboe 2002

B24 Echo Pan

B25 Bell Swing

B26 Reso Synthesizer

B27 Steam Pad

B28 Vibe String

No. Tone name

## ZONE BANK A

B31 Synthesizer Lead 1

B32 Synthesizer Lead 2

B33 Synthesizer Lead 3

B34 Synthesizer Lead 4

B35 Synthesizer Bass 1

B36 Synthesizer Bass 2

B37 Synthesizer Bass 3

B38 Synthesizer Bass 4

B41 Acoustic Bass 1

B42 Acoustic Bass 2

B43 Electric Bass 1

B44 Electric Bass 2

B45 Slap Bass 1

B46 Slap Bass 2

B47 Fretless Bass 1

B48 Fretless Bass 2

No. Tone name

## ZONE BANK A

B51 Vibe

B52 Glock

B53 Marimba

B54 Xylophone

B55 Guitar 1

B56 Guitar 2

B57 Electric Guitar 1

B58 Electric Guitar 2

B61 Koto

B62 Shamisen

B63 Jamisen

B64 Sho

B65 Shakuhachi

B66 Wadaiko Set

B67 Sitar

B68 Steel Drum

No. Tone name

## ZONE BANK A

B71 Tech Snare

B72 Electric Tom

B73 Reverse Cymbal

B74 Ethno Hit

B75 Timpani

B76 Triangle

B77 Wind Bell

B78 Tube Bell

B81 Orchestra Hit

B82 Bird Tweet

B83 One Note Jam

B84 Telephone

B85 Typewriter

B86 Insect

B87 Water Bells

B88 Jungle Tune

# TONES

No.	Tone name
TONE BANK C	
C11	Touch Piano
C12	Synthesizer Piano
C13	Full Out Organ
C14	Moss Organ
C15	Deep Strings
C16	X-Mod Strings
C17	Velo-Brass
C18	Soft Brass
C21	Native Loop
C22	Nightmare
C23	Rich Wood
C24	Picked Guitar
C25	Inner Wood
C26	Poly Synth
C27	Blow Pipes
C28	Clavitrroid

No.	Tone name
TONE BANK C	
C31	Warm Pad
C32	Power Synth
C33	Hollow Pad
C34	Old Days
C35	Reso Sweep
C36	Brass Pad
C37	Sawteeth
C38	Metallics
C41	Square Solo
C42	Horn Lead
C43	Overdrive
C44	Voxy Men
C45	Harpsi-Vox
C46	Voxy Women
C47	Breath Choir
C48	Whistler

No.	Tone name
TONE BANK C	
C51	Light Bass
C52	Slide Bass
C53	Timbass
C54	Funk Bass
C55	Bass Synthesizer
C56	Slappin'
C57	Falling Leaves
C58	Electric Guitar Mute
C61	Drop Hit
C62	Mild Bell
C63	Synthesizer Mallet
C64	Good Night
C65	Bell Tree
C66	Synthesizer Chime
C67	Reverse Bell
C68	"Big Ben"

No.	Tone name
TONE BANK C	
C71	Timbales
C72	Conga Set
C73	Metal Drum
C74	Native Percussion
C75	Snare Drum
C76	Rich Ride
C77	Splash Cymbal
C78	[Drum Set]
C81	Space War
C82	'Commando'
C83	Very Busy!
C84	Thunderstorm
C85	Ironworks
C86	Bubble Gum
C87	Lonely Wolf
C88	Seashore...

# TONES

No.	Tone name
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TONE BANK D	
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D11	Drums & Percussion
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