

D-110

MULTI TIMBRAL
SOUND MODULE

EXPANION ONE 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). This has been emulated in this collection when possible.

Presets 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'. The (filtered) partials are included in this collection: PCM Bank, RingMod Bank and Synth Bank.

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. Most tones are monaural, some stereo. Stereo tones have been sampled in stereo. 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.

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 AND PARTIALS

No.	Tone name
EXPANSION ONE	
E1-01	Touch Piano
E1-02	Synthesizer Piano
E1-03	Full Out Organ
E1-04	Moss Organ
E1-05	Deep Strings
E1-06	X-Mod Strings
E1-07	Velo-Brass
E1-08	Soft Brass
E1-09	Native Loop
E1-10	Nightmare
E1-11	Rich Wood
E1-12	Picked Guitar
E1-13	Inner Wood
E1-14	Poly Synth
E1-15	Blow Pipes
E1-16	Clavitrroid

No.	Tone name
EXPANSION ONE	
E1-17	Warm Pad
E1-18	Power Synth
E1-19	Hollow Pad
E1-20	Old Days
E1-21	Reso Sweep
E1-22	Brass Pad
E1-23	Sawteeth
E1-24	Metallics
E1-25	Square Solo
E1-26	Horn Lead
E1-27	Overdrive
E1-28	Voxy Men
E1-29	Harpsi-Vox
E1-30	Voxy Women
E1-31	Breath Choir
E1-32	Whistler

No.	Tone name
EXPANSION ONE	
E1-33	Light Bass
E1-34	Slide Bass
E1-35	Timbass
E1-36	Funk Bass
E1-37	Bass Synthesizer
E1-38	Slappin'
E1-39	Falling Leaves
E1-40	Electric Guitar Mute
E1-41	Drop Hit
E1-42	Mild Bell
E1-43	Synthesizer Mallet
E1-44	Good Night
E1-45	Bell Tree
E1-46	Synthesizer Chime
E1-47	Reverse Bell
E1-48	"Big Ben"

No.	Tone name
EXPANSION ONE	
E1-49	Timbales
E1-50	Conga Set
E1-51	Metal Drum
E1-52	Native Percussion
E1-53	Snare Drum
E1-54	Rich Ride
E1-55	Splash Cymbal
E1-56	[Drum Set]
E1-57	Space War
E1-58	'Commando'
E1-59	Very Busy!
E1-60	Thunderstorm
E1-61	Ironworks
E1-62	Bubble Gum
E1-63	Lonely Wolf
E1-64	Seashore...

TONES AND PARTIALS

No.	Tone Name
→	Partials
EXPANSION ONE	

- E1-01 Touch Piano
- Acoustic Piano High
 - Acoustic Piano Low
 - Square Wave
 - Square Wave

- E1-02 Synthesizer Piano
- Square Wave (RingMod)
 - Square Wave (RingMod)
 - Electric Piano 1
 - Acoustic Piano High

- E1-03 Full Out Organ
- Drawbars
 - Drawbars
 - Low Organ
 - Low Organ

No.	Tone Name
→	Partials
EXPANSION ONE	

- E1-04 Moss Organ
- Jam 32
 - Jam 32
 - Spectrum 6
 - Square Wave

- E1-05 Deep Strings
- Saw Wave
 - Saw Wave
 - Saw Wave
 - Saw Wave

- E1-06 X-Mod Strings
- Saw Wave (RingMod)
 - Square Wave (RingMod)
 - Square Wave (RingMod)
 - Square Wave (RingMod)

- E1-07 Velo-Brass
- Saw Wave
 - Saw Wave

No.	Tone Name
→	Partials
EXPANSION ONE	

- E1-08 Soft Brass
- Trumpet
 - Saw Wave
 - Saw Wave
 - Saw Wave

- E1-09 Native Loop
- Spectrum 1
 - Jam 22
 - Cello
 - Cello

- E1-10 Nightmare
- Male 1
 - Male 2
 - Electric Bass
 - Spectrum 5

No.	Tone Name
→	Partials
EXPANSION ONE	

- E1-11 Rich Wood
- Saw Wave
 - Square Wave
 - Square Wave
 - Square Wave

- E1-12 Picked Guitar
- Electric Guitar (RingMod)
 - Bass Drum 1 (RingMod)
 - Steel Guitar

- E1-13 Inner Wood
- Tom Tom 2
 - Square Wave
 - Square Wave
 - Square Wave

- E1-14 Poly Synth
- Saw Wave
 - Saw Wave
 - Saw Wave

TONES AND PARTIALS

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-15	Blow Pipes
→	Square Wave
→	Square Wave
→	India Flute
E1-16	Clavitroid
→	Snare Drum 3
→	Cup
→	Saw Wave
→	Saw Wave
E1-17	Warm Pad
→	Saw Wave
→	Saw Wave
→	Saw Wave
→	Saw Wave
E1-18	Power Synth
→	Saw Wave
→	Square Wave
→	Square Wave (RingMod)
→	Square Wave (RingMod)

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-19	Hollow Pad
→	Square Wave
→	Square Wave
→	Square Wave
→	Square Wave
E1-20	Old Days
→	Square Wave
→	Saw Wave
E1-21	Resonance Sweep
→	Saw Wave
→	Saw Wave
E1-22	Brass Pad
→	Saw Wave
→	Saw Wave
E1-23	Sawteeth
→	Saw Wave
→	Saw Wave

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-24	Metallics
→	Harpsichord 2 (RingMod)
→	Square Wave (RingMod)
E1-25	Square Solo
→	Square Wave
→	Square Wave
E1-26	Horn Lead
→	Saw Wave
→	Square Wave
→	Koto
E1-27	Overdrive
→	Square Wave
→	Square Wave
→	Dirt Guitar
→	Slap Bass

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-28	Voxy Men
→	Male 1
→	Spectrum 3
→	Male 1
→	Male 1
E1-29	Harpsi-Vox
→	Harpsichord
→	Harpsichord
E1-30	Voxy Women
→	Saxophone 2
→	Spectrum 3
→	Female 2
→	Female 2
E1-31	Breath Choir
→	Saw Wave
→	Square Wave
→	Female 2
→	Spectrum 3

TONES AND PARTIALS

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-32	Whistler
→	Square Wave
→	Square Wave
E1-33	Light Bass
→	Saw Wave
→	Square Wave
E1-34	Slide Bass
→	Saw Wave
→	Saw Wave
→	Fretless
E1-35	Timbass
→	Timbale Low
→	Saw Wave
→	Spectrum 5
E1-36	Funk Bass
→	Saw Wave
→	Saw Wave

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-37	Bass Synthesizer
→	Saw Wave
→	Saw Wave
E1-38	Slappin'
→	Pull Bass
→	Slap Bass
→	Thump Bass
→	Steel Guitar
E1-39	Falling Leaves
→	Timbale High
→	Timbale High
→	Timbale High
→	Square Wave
E1-40	Electric Guitar Mute
→	Cello sustained
→	Dirt Guitar
→	PianoForte Tap
→	Cello

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-41	Drop Hit
→	Cup
→	High Organ
→	Violin 1
→	Electric Guitar
E1-42	Mild Bell
→	Square Wave
→	Square Wave
E1-43	Synthesizer Mallet
→	Square Wave
E1-44	Good Night
→	Saw Wave
→	Saw Wave
→	Spectrum 6
→	Spectrum 2
E1-45	Bell Tree
→	Spectrum 2
→	Square Wave

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-46	Synthesizer Chime
→	Saw Wave (RingMod)
→	Conga
E1-47	Reverse Bell
→	Spectrum 2
E1-48	'Big Ben'
→	Loop 42
→	Loop 42
E1-49	Timbales
→	Timbale Low
→	Timbale High
→	Cowbell
E1-50	Conga Set
→	High Conga
→	Conga
→	Conga
E1-51	Metal Drum
→	Hammer
→	Timbale High

TONES AND PARTIALS

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-52	Native Percussion
→	Kalimba
→	Square Wave
E1-53	Snare Drum
→	Snare Drum 2
→	Conga
→	Timbale High
→	Noise
E1-54	Rich Ride
→	Ride Cymbal 1
→	Ride Cymbal 2
→	Crash Cymbal 2
→	Cup
E1-55	Splash Cymbal
→	Crash Cymbal 1
→	Crash Cymbal 2

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-56	Drum Set
→	Bass Drum 2
→	Snare Drum 3
→	Tom Tom 1
→	Crash Cymbal 1
E1-57	Space War
→	Saw Wave
→	Saw Wave
→	Loop 4
E1-58	'Commando'
→	Loop 14
→	Loop 13
→	Timpani Attack
E1-59	Very Busy!
→	Jam 20
→	Jam 13
→	Telephone

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-60	Thunderstorm
→	Snare Drum 4
→	Noise
→	Noise
→	Noise
E1-61	Ironworks
→	Loop 43
→	Jam 23
→	Loop 9
→	Loop 9
E1-62	Bubble Gum
→	Ride Cymbal 2
→	Ride Cymbal 2
E1-63	Lonely Wolf
→	Square Wave
→	Square Wave

No.	Tone Name
→	Partials
EXPANSION ONE	
E1-64	Seashore...
→	Noise
→	Noise
→	Jam 22 (RingMod)
→	Jam 10 (RingMod)