GENERAL MIDI

DTXTREME IIs

DRUM TRIGGER MODULE

DATA LIST

YAMAHA

DTXTREME IIs

DRUM TRIGGER MODULE

DATA LIST

Table of Contents

MIDI Data Format

1. General

1.1 Coverage

The specifications described herein specify transmission and reception of MIDI data of the DTXTREME IIs.

1.2 Compliance

The specifications described herein comply to following standards:
• MIDI 1.0
• YMCS V16.19
• GM System Level 1 standard specified by Yamaha Corporation

1.3 Legend

The following specifications are described as:
• Hexadecimals are headed with a dollar sign ($).
• $nn*N indicates that there are multiple values.

2. Channel Messages

Channel messages on MIDI channel 10 are not received when the "Receive10" system parameter is set to off.

2.1 Key On or Key Off

Supports both transmission and reception.
Reception note range: C-2 - G8
Velocity range: 1 to 127 (note on only)

2.2 Control Change

The internal sequencer is capable of recording or playback of all kinds of control change messages, so that the DTXTREME IIs can transmit and receive those messages.
The internal tone generator and drum triggering function as follows.

2.2.1 bank select MSB, LSB - 0, 32
Supports both transmission and reception.

Operations based on bank select data may vary depending on the MIDI mode setting. However, in any MIDI mode setting, actual operations on bank select will be suspended until the DTXTREME IIs receives a program change message that follows bank select data.

• MIDI mode setting: native

MSB=0	LSB=any value: normal voice	
MSB=127	LSB=any value: GM drum voice	*note 1
MSB=125	LSB=0: drum voice, preset kit1	*note 2
MSB=125	LSB=1: drum voice, user kit	*note 2
MSB=125	LSB=2: drum voice, card kit	*note 2

• MIDI mode setting: GM

MSB=0	LSB=any value: normal voice	
MSB=127	LSB=any value: GM drum voice	*note 1

*note 1: The DTXTREME IIs only receives program numbers 1, 2, 9, 17, 25, 26, 33, 41 and 49 and selects a GM preset drum kit that corresponds to the received number.

*note 2: The DTXTREME IIs selects a drum kit that corresponds to the received number.

It is possible to select a drum voice for any MIDI channel (except 10). In this case, the drum map used for that voice is identical to that for MIDI channel 10.

2.2.2 1 modulation
Reception only.

2.2.3 4 foot controller
Supports both transmission and reception.

2.2.4 6 data entry
Reception only. Used to specify RPN data.

2.2.5 7 main volume
Supports both transmission and reception.

2.2.6 10 pan
Supports both transmission and reception.
0 is the far left of a stereo image and 127 is the far right of a stereo image.

2.2.7 11 expression
Reception only.

2.2.8 64 hold 1
Reception only.

2.2.9 71 harmonic content
Reception only.

2.2.10 72 release time
Reception only.

2.2.11 73 attack time
Reception only.

2.2.12 74 brightness
Reception only.

2.2.13 84 portamento control
Reception only.

2.2.14 91 effect1 depth
Reception only. Affects the reverb send level.

2.2.15 93 chorus depth
Reception only. Affects the chorus send level.

2.2.16 100, 101 data increment/decrement
Reception only.

2.2.17 RPN
$00/$00 pitch bend sensitivity: Reception only.
$00/$01 fine tuning: Reception only.
$00/$02 coarse tuning: Reception only.
$71/$71 NULL: Reception only.

2.3 Channel Mode Messages

Reception only.

2.3.1 120 all sound off
Mutes all the sounds currently playing through the specified channel.

2.3.2 121 reset all controllers
Sets the following controller values back to its initial value:
pitchbend, modulation, expression, hold1, portamento control, RPN number

2.3.3 123 all note off
Mutes all notes through the specified channels currently playing. They will, however, not be muted until hold 1 is turned off.

2.3.4 124 omni off
Operates as all notes off is received.

2.3.5 125 omni on
Operates as all notes off is received.

2.3.6 126 mono
Operates as all sounds off is received.

2.3.7 127 poly
Operates as all sounds off is received.

2.4 Program Change

When the "Receive pc" system parameter is set to off, the DTXTREAME IIs does not receive program change data.

When the "Receive10 pc" system parameter is set to off, the DTXTREAME IIs does not receive program change data on MIDI channel 10.

2.5 Pitch Bend

Supports both transmission and reception.

2.6 Channel Aftertouch

Does not support transmission and reception.

2.7 Polyphonic Aftertouch

Does not support transmission and reception.

3. System Exclusive Messages

When the "receive system exclusive" system parameter is set to off, the DTXTREAME does not receive system exclusive messages.

The DTXTREAME does not receive system exclusive messages that does not include the device number specified with the "device number" system parameter.

3.1 Parameter Change

3.1.1 GM system ON

```
$F0 $7E $7F $09 $01 $F7
```

Sets all the data except the MIDI master tuning data to its initial value.
Supports both transmission and reception.

3.1.2 XG system ON

```
$F0 $43 $1n $4C $00 $00 $7E $00 $F7
```

n is device number.
Operates as GM system ON is received. Reception only.

3.1.3 identify request

```
$F0 $7E $0n $06 $01 $F7
```

n is device number.
After this message is received, the DTXTREME IIs transmits identity reply. Reception only.

3.1.4 MIDI master volume

```
$F0 $7F $7F $04 $01 $XX $mm $F7
```

XX is dummy (ignored). mm is the volume data.
Reception only.

3.1.5 MIDI master tune

```
$F0 $43 $1n $27 $30 $00 $00 $mm $ll $cc $F7
```

n is device number.
Master tuning can be done by 128 cents which is specified by mm (MSnible) and ll (LSnible).
Reception only.

3.1.6 identify reply

```
$F0 $7E $0n $06 $02 $43 $00 $4C $01 $08 $mm $00 $00
$00 $F7
```

n is device number.
mm is software version number ($00).
Transmission only.

3.1.7 display data

```
$F0 $43 $1n $4c $06 $00 $ii $dd*N $F7
```

n is device number (1 - F).
ii is display start position ($00 - $1F).
dd is an ASCII code number. Up to 32 "dd" values can be specified.
A specified string (of up to 32 characters) is displayed in the LCD for a certain period of time. If multiple data sets are received, the LCD displays each string at the specified start position in the received order.
Reception only.

3.1.8 clear all song

```
$F0 $43 $7D $1n $44 $54 $00 $F7
```

n is device number (1 - F).
Clears all user songs.

3.1.9 remote SW

```
$F0 $43 $7D $1n $52 $53 data $F7
```

n is device number (1 - F).
Operates identically as a panel switch is pressed (on/off).
Data specifies the switch number (bit0 - bit5: $00 - $3F) and its status (bit6: $40, 1: on, 0: off).
See Data Tables for the switch number.

3.1.10 parameter change

```
$F0 $43 $7D $1n $44 $58 p1 p2 p3 p4 data1 (data2)
$F7
```

n is device number (1 - F).
Changes values for various parameters on the DTXTREME IIs.
The parameter number specified with p1, p2, p3 and p4 is given a value specified with data1 and data2.
If the target parameter belongs to other than a user stack, it takes 1 byte (no data2).
If the target parameter belongs to a user stack (one of 4 elements that comprise a user voice), it takes 2 bytes (data1 and data2). In this case, data1 (MS7bit) and data2 (LS7bit) is combined to express a single value ($0000 - $3FFF).
See Data Tables for the parameter number.
Reception only.

3.2 Bulk Dump

Bulk data is transmitted and received as follows:

```
$F0
$43
$7D
$0n     n: device number
$ss     data bytes MS7bit
$ss     data bytes LS7bit
$44     ID, ASCII char 'D'
$54     ID, ASCII char 'T'
$58     ID, ASCII char 'X'
$54     ID, ASCII char 'T'
type1   type, ASCII char
type2   type, ASCII char
type3   type, ASCII char
type4   type, ASCII char
indM    index number MS7bit
indL    index number LS7bit
numM    object number MS7bit
numL    object number LS7bit
data    data
.
.
.
data
csum    check sum
$F7
```

n is device number (1 - F).

Data bytes is a numeric value obtained by adding 12 to the number of data bytes.

If data is more than 4,096 bytes, that data is divided into multiple packets ($F0 - $F7) and each packet is transferred with a unique index number. The first index number is $00 $01 ($0001) and the last is $7F $7F ($3FFF). If data is within 4,096 bytes, that data is transferred in a single packet with the first index number, $00 $01 ($0001).

Object number specifies a unique number from multiple similar kinds of data (like drum kit number, song number or so on). If the target data is single (like system common data, edit buffer data or so on), this value must be $7F $7F ($3FFF).

Check sum must be a 2's complement of the sum of the 7th byte (ID) and following data (before check sum).

3.2.1 bulk dump - system data

```
$F0
.
.
.
$58     ID, ASCII char 'X'
$54     ID, ASCII char 'T'
$53     type, ASCII char 'S'
$59     type, ASCII char 'Y'
$53     type, ASCII char 'S'
$30     type, ASCII char '0'
$00     fixed $00
$00     fixed $00
$7F     fixed $7F
$7F     fixed $7F
data    data
.
.
.
data
csum    check sum
$F7
```

See Data Tables for details of data.

3.2.2 bulk dump - drumkit data

```
$F0
.
.
.
$58     ID, ASCII char 'X'
$54     ID, ASCII char 'T'
$4F     type, ASCII char 'O'
$4B     type, ASCII char 'K'
$49     type, ASCII char 'I'
$32     type, ASCII char '2'
$00     fixed $00
$00     fixed $00
numM    drumkit number MS7bit
numL    drumkit number LS7bit
data    data
.
.
.
data
csum    check sum
$F7
```

Drumkit number is a user drumkit number counted from 0 (counted from 1 in the panel display).
Drumkit number $7F $7F ($3FFF) specifies the edit buffer.
See Data Tables for details of data.

3.2.3 chain dump - chain data

```
$F0
.
.
.
$58     ID, ASCII char 'X'
$54     ID, ASCII char 'T'
$4F     type, ASCII char 'O'
$43     type, ASCII char 'C'
$48     type, ASCII char 'H'
$30     type, ASCII char '0'
$00     fixed $00
$00     fixed $00
numM    drumkit number MS7bit
numL    drumkit number LS7bit
data    data
.
.
.
data
csum    check sum
$F7
```

Chain number is a user chain number counted from 0 (counted from 1 in the panel display).
Chain number $7F $7F ($3FFF) specifies the edit buffer.
See Data Tables for details of data.

3.2.4 bulk dump - song data

```
$F0
.
.
.
$58     ID, ASCII char 'X'
$54     ID, ASCII char 'T'
$4F     type, ASCII char 'O'
$53     type, ASCII char 'S'
$47     type, ASCII char 'G'
$30     type, ASCII char '1'
indM    index number MS7bit
indL    index number LS7bit
numM    song number MS7bit
numL    song number LS7bit
data    data
.
.
.
data
csum    check sum
$F7
```

If data is large, it is divided into multiple messages.

Song number is a user song number counted from 0 (counted from 1 in the panel display).
Song number $7F $7f ($3FFF) specifies the one song (current song).

Each data byte is divided into 4-bit MSnibble and LSnibble, and then transferred as successive 2 bytes.
See Data Tables for details of data.

3.2.5 bulk dump - stack data

```
$F0
.
.
.
$58     ID, ASCII char 'X'
$54     ID, ASCII char 'T'
$56     type, ASCII char 'V'
$43     type, ASCII char 'C'
$45     type, ASCII char 'E'
$30     type, ASCII char '0'
$00     fixed $00
$00     fixed $00
numM    stack number MS7bit
numL    stack number LS7bit
data    data
.
.
.
data
csum    check sum
$F7
```

Stack number is specified with numM and numL ($00 - $0f for each) and determines the user stack 1 - 16.

Each data byte is divided into 4-bit MSnibble and LSnibble, and then transferred as successive 2 bytes.
See Data Tables for details of data.

3.3 Dump Request

When the DTXTREME IIs receives dump request (reception only), it transmits requested bulk data.

```
$F0
$43
$7D
$2n      n: device number
$44      ID, ASCII char 'D'
$54      ID, ASCII char 'T'
$58      ID, ASCII char 'X'
$54      ID, ASCII char 'T'
type1    type, ASCII char
type2    type, ASCII char
type3    type, ASCII char
type4    type, ASCII char
numM     object number MS7bit
numL     object number LS7bit
$F7
```

Type specifies the type of bulk data. See the bulk dump format for available types.

Object number specifies a unique number from multiple similar kinds of data (like drum kit number, song number or so on). If the target data is single (like system common data, edit buffer data or so on), this value must be $7F $7F ($3FFF).
If the target data is a song, the DTXTREME IIs will not respond to $7F $7F ($3FFF).

4. System Common Messages

4.1 Song Select

```
$F3 $nn
```

nn is song number.
Reception only.

5. System Realtime Messages

Supports both transmission and reception.

5.1 Timing Clock

When the “MIDI sync mode” system parameter has a value of “ext” or “auto,” the DTXTREME IIs synchronizes to incoming timing clock.

5.2 Start, Continue, Stop

When the “MIDI control” system parameter is set to off, the DTXTREAME IIs does not receive start, continue and stop messages.

5.3 Active Sensing

Reception: If an active sensing message is received and there is no subsequent MIDI data coming in for more than approximately 300 milliseconds, the DTXTREAME IIs will mute all current sounds playing.

Transmission: The DTXTREME IIs transmits MIDI data including active sensing message every (approximately) 300 milliseconds.

MIDI Data Table

Table A: Parameter Change – Parameter List

range format:

```
OB24    0:-12, 1:-11, ... 12:0, 13:+1, ... 24:+12
OB30    0:-15, 1:-14, ... 15:0, 16:+1, ... 30:+15
OB32    0:-16, 1:-15, ... 16:0, 17:+1, ... 32:+16
OB48    0:-24, 1:-23, ... 24:0, 25:+1, ... 48:+24
OB64    0:-64, 1:-32, ... 32:0, 33:+1, ... 64:+32
OB127   0:-127, 1:-62, ... 64:0, 65:+1, ...127:+63
OB$0800 $0000:-$400,$0001:-$3ff,... $0400:$0,$0401:+$1,...$0800:+$400
OB$1000 $0000:-$800,$0001:-$7ff,... $0800:$0,$0801:+$1,...$1000:+$800
OB$1800 $0000:-$c00,$0001:-$bff,... $0c00:$0,$0c01:+$1,...$1800:+$c00
ASCII   $20 - $7f
```

A.1 parameter change - DRUM control parameter

P1-4	range	name
1 1 - -	0-2	KIT DEVICE
1 2 - -	0-	KIT NO
1 3 - -	0,1	KIT EDIT FLAG
1 4 - -	0-31	CHAIN NO
1 5 - -	0,1	CHAIN EDIT FLAG

A.2 parameter change - SEQ control parameter

P1-4	range	name
2 6 - -	0-2	SONG DEVICE
2 7 - -	0-	SONG NO
2 9 - -	30-300	TEMPO LSB 7bit
2 10 - -	30-300	TEMPO MSB 7bit
2 16 - -	0,1	REPEAT PLAY
2 19 - -	0-39	CLICK BEAT
2 20 - -	0-6	CLICK QUANTIZE
2 21 - -	0,1	MUTE RHY
2 22 - -	0,1	MUTE BASS
2 23 - -	0,1	MUTE OTHER

A.3 parameter change - system parameter

P1-4	range	name
3 1 - -	0,1	LINK MODE
3 2 - -	0,1	LEARN MODE
3 3 - -	0,1	BYPASS
3 4 - -	OB64	F/C OFFSET DATA
3 5 - -	0-127	F/C OFFSET TIME
3 6 - -	0,1	JUMP TO RECENT PAGE
3 7 - -	0-16	INC PAD NO
3 8 - -	0-16	DEC PAD NO
3 9 - -	0,1	LED DISPLAY
3 10 - -	0-2	TRIGGER SET
3 11 - -	0-63	LCD CONTRAST
4 1 - -	0,1	MIDI MODE
4 2 - -	0-16	MIDI DEV NO
4 3 - -	0,1	LOCAL SW
4 4 - -	0,1	RECEIVE P/C
4 5 - -	0,1	RECEIVE MIDI CH10
4 6 - -	0,1	RECEIVE MIDI CH10 P/C
4 7 - -	0,1	RECEIVE SYSEX
4 8 - -	0,1	SEND HH CONTROL
4 9 - -	0,1	SEQ CONTROL
4 11 - -	0-5	BULK TIME
4 12 - -	0,1	MERGE SW
5 1 - -	OB24	EQ GAIN LO
5 2 - -	OB24	EQ GAIN MID
5 3 - -	OB24	EQ GAIN HI
5 4 - -	4-40	EQ FREQ LO
5 5 - -	14-54	EQ FREQ MID
5 6 - -	28-58	EQ FREQ HI
6 1 - -	0-	CLICK VOICE SET
6 2 - -	0-14	CLICK OUTSEL
6 3 - -	0,1	CLICK MIDI OUT
6 4 - -	0-3	CLICK MODE
6 5 - -	0,1	PLAY COUNT
6 6 - -	0,1	REC COUNT
6 7 - -	0,1	SYNC MODE
6 8 - -	0,1	GLOBAL TEMPO
28 1 m -	0-	USER CLICK VOICE CATEGORY
28 2 m -	0-	USER CLICK VOICE INDEX NO
28 3 m -	0-127	USER CLICK VOLUME
28 5 m -	OB$1800	USER CLICK PITCH MSB 7bit
28 6 m -	OB$1800	USER CLICK PITCH LSB 7bit
28 7 m -	OB127	USER CLICK MODIFY
28 8 m -	OB127	USER CLICK FILTER
28 9 m -	OB127	USER CLICK Q
28 10 m -	OB127	USER CLICK ATTACK
28 11 m -	OB127	USER CLICK DECAY
29 1 - -	OB$800	MASTER TUNE MSB7bit
29 2 - -	OB$800	MASTER TUNE LSB7bit
29 3 - -	0-127	MASTER VOLUME
29 4 - -	0,1	REVERB BYPASS
29 5 - -	0,1	SWAP L/R
29 6 - -	0,1	AUTO INDIV OUTPUT
29 7 - -	0,1	SLIDER MODE
29 8 - -	0-2	AUXIN OUTSEL
30 1 - -	0-99	REC LEVEL
30 2 - -	0-2	SAMPLE SOURCE SELECT

m: 0-2 click type

A.4 parameter change - Drumkit pad note parameter

P1-4	range	name
7 1 in n	0-127	MIDI NOTE NO
7 2 in n	0-99	GATE TIME
7 3 in n	0-16	MIDI CHANNEL
7 4 in n	0-9	VELOCITY TABLE

in: 0-15 trigger input number
n: note index number

A.5 parameter change - Drumkit pad function parameter

P1-4	range	name
8 1 in n	0-4	KEY ON MODE
8 2 in n	0-7	PAD FUNCTION
8 3 in n	0,1	PAD SONG DEVICE
8 4 in n	0-	PAD SONG NO
8 5 in n	0-2	PAD SONG MODE
8 6 in n	0,1	PAD SONG REPEAT
8 7 in n	0-32	TRIGGER ALT GROUP
8 8 in n	0-16	RIM VELOCITY

in: 0-15 trigger input number
n: index number 0:pad, 1:rim1, 2:rim2

A.6 parameter change - Drumkit pad parameter

P1-4	range	name
9 1 in -	0-10	PAD TYPE
9 2 in -	0-63	GAIN
9 3 in -	0-99	MIN LEVEL
9 4 in -	1-100	MAX LEVEL
9 5 in -	0-126	MIN VELOCITY
9 6 in -	0-127	MAX VELOCITY
9 7 in -	0-4	VELOCITY CURVE
9 8 in -	0-3	SELF REJECTION MSB
9 9 in -	0-127	SELF REJECTION LSB
9 10 in -	0-9	REJECTION
9 11 in -	0-15	SPECIFIED REJECT INPUT NO
9 12 in -	0-9	SPECIFIED REJECT
9 13 in -	0-24	PAD CONTROL

in: 0-15 trigger input number

A.7 parameter change - Drumkit map parameter

P1-4	range	name
10 1 nt -	0-	VOICE CATEGORY
10 2 nt -	0-	VOICE INDEX NO
10 3 nt -	0-127	VOLUME
10 4 nt -	0-127	PAN
10 5 nt -	OB$1800	PITCH MSB 7bit
10 6 nt -	OB$1800	PITCH LSB 7bit
10 7 nt -	OB127	MODIFY
10 8 nt -	OB127	FILTER
10 9 nt -	OB127	Q
10 10 nt -	OB127	ATTACK
10 11 nt -	OB127	DECAY
10 12 nt -	0-3	KEY ASSIGN MODE
10 13 nt -	0-127	ALTERNATE GROUP
10 14 nt -	0,1	KEY OFF ENABLE
10 15 nt -	0,1	KEY ON ENABLE
10 16 nt -	0-11	OUTPUT SELECT
10 17 nt -	0-127	REVERB SEND
10 18 nt -	0-127	CHORUS SEND

nt: 0-81 (MIDI note number - 13)

A.8 parameter change - Drumkit xmap parameter

P1-4	range	name
24 1 - -	0-13	WAVE1
24 2 - -	0-11	WAVE2
24 3 - -	0-2	XS FILTER
24 4 - -	0-32	XS DECAY

A.9 parameter change - Drumkit insert FX parameter

P1-4	range	name
11 1 if -		PARAMETER 1 MSB 7bit
11 2 if -		PARAMETER 1 LSB 7bit
11 3 if -		PARAMETER 2 MSB 7bit
11 4 if -		PARAMETER 2 LSB 7bit
11 5 if -		PARAMETER 3 MSB 7bit
11 6 if -		PARAMETER 3 LSB 7bit
11 7 if -		PARAMETER 4 MSB 7bit
11 8 if -		PARAMETER 4 LSB 7bit
11 9 if -		PARAMETER 5 MSB 7bit
11 10 if -		PARAMETER 5 LSB 7bit
11 11 if -		PARAMETER 6 MSB 7bit
11 12 if -		PARAMETER 6 LSB 7bit
11 13 if -		PARAMETER 7 MSB 7bit
11 14 if -		PARAMETER 7 LSB 7bit
11 15 if -		PARAMETER 8 MSB 7bit
11 16 if -		PARAMETER 8 LSB 7bit
11 17 if -		PARAMETER 9 MSB 7bit
11 18 if -		PARAMETER 9 LSB 7bit
11 19 if -		PARAMETER 10 MSB 7bit
11 20 if -		PARAMETER 10 LSB 7bit
11 21 if -		PARAMETER 11 MSB 7bit
11 22 if -		PARAMETER 11 LSB 7bit
11 23 if -		PARAMETER 12 MSB 7bit
11 24 if -		PARAMETER 12 LSB 7bit
11 25 if -		PARAMETER 13 MSB 7bit
11 26 if -		PARAMETER 13 LSB 7bit
11 27 if -		PARAMETER 14 MSB 7bit
11 28 if -		PARAMETER 14 LSB 7bit
11 29 if -		PARAMETER 15 MSB 7bit
11 30 if -		PARAMETER 15 LSB 7bit
11 31 if -		PARAMETER 16 MSB 7bit
11 32 if -		PARAMETER 16 LSB 7bit
11 33 if -	0-44	TYPE
11 34 if -	1-127	PAN
11 35 if -	0-127	REVSEND
11 36 if -	0-127	CHOSEND
11 37 if -	0-119	CONTROL NO
11 38 if -	0-127	CONTROL SENS
11 39 if -	0-9	OUT SELECT

if: 0,1 Insert FX number

A.9 parameter change - Drumkit reverb parameter

P1-4	range	name
12 1 - -		PARAMETER 1
12 2 - -		PARAMETER 2
12 3 - -		PARAMETER 3
12 4 - -		PARAMETER 4
12 5 - -		PARAMETER 5
12 6 - -		PARAMETER 6
12 7 - -		PARAMETER 7
12 8 - -		PARAMETER 8
12 9 - -		PARAMETER 9
12 10 - -		PARAMETER 10
12 11 - -		PARAMETER 11
12 12 - -		PARAMETER 12
12 13 - -		PARAMETER 13
12 14 - -		PARAMETER 14
12 15 - -		PARAMETER 15
12 16 - -		PARAMETER 16
12 17 - -	0-12	TYPE
12 18 - -	0-127	RETURN LEVEL
12 19 - -	0-127	PAN

A.10 parameter change - Drumkit chorus note parameter

P1-4	range	name
13 1 - -		PARAMETER 1
13 2 - -		PARAMETER 2
13 3 - -		PARAMETER 3
13 4 - -		PARAMETER 4
13 5 - -		PARAMETER 5
13 6 - -		PARAMETER 6
13 7 - -		PARAMETER 7
13 8 - -		PARAMETER 8
13 9 - -		PARAMETER 9
13 10 - -		PARAMETER 10
13 11 - -		PARAMETER 11
13 12 - -		PARAMETER 12
13 13 - -		PARAMETER 13
13 14 - -		PARAMETER 14
13 15 - -		PARAMETER 15
13 16 - -		PARAMETER 16
13 17 - -	0-14	TYPE
13 18 - -	0-127	RETURN LEVEL
13 19 - -	0-127	PAN
13 20 - -	0-127	CHORUS TO REVERB LEVEL

A.11 parameter change - Drumkit localizer note parameter

P1-4	range	name
21 1 - -		PARAMETER 1
21 2 - -		PARAMETER 2
21 3 - -		PARAMETER 3
21 4 - -		PARAMETER 4
21 5 - -		PARAMETER 5
21 6 - -		PARAMETER 6
21 7 - -		PARAMETER 7
21 8 - -		PARAMETER 8
21 9 - -		PARAMETER 9
21 10 - -		PARAMETER 10
21 11 - -		PARAMETER 11
21 12 - -		PARAMETER 12
21 13 - -		PARAMETER 13
21 14 - -		PARAMETER 14
21 15 - -		PARAMETER 15
21 16 - -		PARAMETER 16
21 17 - -	0-5	TYPE
21 18 - -	0-16	DRUM SENSITIVITY
21 19 - -	0-16	ACMP SENSITIVITY

A.13 parameter change - Drumkit MIDI setup parameter

P1-4	range	name
14 1 i -	0,1	ENABLE SW
14 2 i -	0-127	PROGRAM CHANGE
14 3 i -	0-127	BANK SELECT MSB
14 4 i -	0-127	BANK SELECT LSB
14 5 i -	0-127	VOLUME
14 6 i -	0-127	PAN
14 7 i -	0-127	C/C NUMBER
14 8 i -	0-127	C/C DATA
14 9 i -	0-127	REVERB SEND
14 10 i -	0-127	CHORUS SEND

i: 0-16 MIDI channel

A.14 parameter change - Drumkit common parameter

P1-4	range	name
15 1 c -	ASCII	NAME
15 2 - -	0,2	F/C FUNCTION
15 3 - -	0-63	F/C SENSITIVITY
15 4 - -	0-16	HH CONTROL INPUT NO
15 5 - -	0-15	F/C MIDI CHANNEL
15 6 - -	0-122	F/C MIDI CONTROL NO
15 7 - -	0-7	F/S FUNCTION
15 8 - -	1-127	F/S MIDI VELOCITY
15 9 - -	0-15	F/S MIDI CHANNEL
15 10 - -	0-119	F/S MIDI CONTROL NO
15 11 - -	0-127	F/S MIDI OFF DATA
15 12 - -	0-127	F/S MIDI ON DATA
15 13 - -	0,1	INPUT 9TO10
15 14 - -	0,1	INPUT 11TO12
15 15 - -	0,1	ENABLE LOCALIZER
15 16 - -	0,1	SONG SELECT DEVICE
15 17 - -	0-	SONG SELECT NO
15 18 - -	30-300	TEMPO SELECT MSB 7bit
15 19 - -	30-300	TEMPO SELECT LSB 7bit
15 20 c -	ASCII	VOLUME FILE NAME
15 21 - -	0-7	EG WAVE
15 22 - -	0-127	EG TIME
15 23 - -	0-119	EQ CONTROL NO
15 24 - -	0-15	EG MIDI CHANNEL
15 30 - -	0-127	DRUM VOLUME
15 31 - -	0-127	DRUM REVERB SEND
15 32 - -	0-127	DRUM CHORUS SEND

c: 0-7 column number

A.15 parameter change - user voice common parameter

P1-4	range	name
16 1 c i	ASCII	NAME
16 2 - i	0,1	HH X FADE SW
16 3 - i	0-127	HH RATE
16 4 - i	0-5	SLIDER NO

c: 0-7 column number
i: 0-98 user voice number

A.16 parameter change - user voice stack parameter

P1-4	range	name
17 1 j i	0-	KEY BANK NO
17 2 j i	0-127	ATTENUATION
17 3 j i	OB48	TRANSPOSE
17 4 j i	0-127	TUNE
17 5 j i	0-127	AR
17 6 j i	0-127	D1R
17 7 j i	0-127	D2R
17 8 j i	90127	RR
17 9 j i	0-255	IL
17 10 j i	0-255	D1L
17 11 j i	0-255	D2L
17 13 j i	0-22	VELOCITY TABLE
17 14 j i	OB30	KEY VELOCITY SENS
17 15 j i	0-31	Q

```
17 16 j i       0-2047  FILTER
17 17 j i       0-127   BOOST
17 19 j i       OB$1000 PEG L1
17 20 j i       0-127   PEG R1
17 21 j i       OB30    PITCH KVS
17 22 j i       OB30    ATTACK KVS
17 23 j i       OB30    DECAY KVS
17 24 j i       0,1     STACK ENABLE
17 25 j i       OB127   GAIN LO
17 26 j i       OB127   GAIN HI
17 27 j i       4-40    FREQ LO
17 28 j i       28-58   FREQ HI
17 29 j i       0-127   DIP FC
-------------------------------------------------------
j: stack number
i: 0-98 user voice number
```

A.17 parameter change - Chain common parameter

```
-------------------------------------------------------
P1-4            range   name
-------------------------------------------------------
22  1 c -       ASCII   NAME
-------------------------------------------------------
c: 0-7 column number
```

A.18 parameter change - Chain step parameter

```
-------------------------------------------------------
P1-4            range   name
-------------------------------------------------------
23  1 i -       0-2     TYPE
23  2 i -       0-2     SONG/KIT DEVICE
23  3 i -       0-      SONG/KIT NO
-------------------------------------------------------
i: 0-31 step number
```

A.19 parameter change - remote sw number

```
-------------------------------------------------------
 sw number      sw name
-------------------------------------------------------
 1              PLAY
 2              TRIGGER
 3              EXIT NO
 4              ENTER YES
 5              CLICK
 6              TOP
 7              CHAIN
 8              VOICE
 9              SHIFT
10              SOUND
11              PAGEG UP
12              PAGEG DOWN
13              SONG
14              EFFECT
15              FF
16              REC
17              RHYTHM
18              BASS
19              UTIL
20              STORE
21              REW
22              PLAY/STOP
23              OTHERS
-------------------------------------------------------
```

Table B: bulk dump data details

notes for 'type'

UC unsigned 8 bit
US unsigned 16 bit
*nn array of the same type
[***] data block

B.1 bulk dump - system data

```
[USER CLICK] block
-------------------------------------------------------
type    NAME
-------------------------------------------------------
UC      MIDI NOTE NO
UC      USER CLICK VOICE CATEGORY
UC      USER CLICK VOICE INDEX NO
UC      USER CLICK VOLUME
1 byte reserve
UC      USER CLICK PITCH MSB 7bit
UC      USER CLICK PITCH LSB 7bit
UC      USER CLICK MODIFY
UC      USER CLICK FILTER
UC      USER CLICK Q
UC      USER CLICK ATTACK
UC      USER CLICK DECAY
6 bytes reserve
-------------------------------------------------------
```

```
system data
-------------------------------------------------------
type    NAME
-------------------------------------------------------
UC      LINK MODE
UC      LEARN MODE
UC      BYPASS
UC      F/C OFFSET DATA
UC      F/C OFFSET TIME
UC      JUMP TO RECENT PAGE
UC      INC PAD NO
UC      DEC PAD NO
UC      LED DISPLAY
UC      TRIGGER SET
1 byte reserve
UC      LCD CONTRAST
1 byte reserve
UC      MIDI MODE
UC      MIDI DEV NO
UC      LOCAL SW
UC      RECEIVE P/C
UC      RECEIVE MIDI CH10
UC      RECEIVE MIDI CH10 P/C
UC      RECEIVE SYSEX
UC      SEND HH CONTROL
UC      SEQ CONTROL
1 byte reserve
UC      BULK TIME
UC      MERGE SW
3 bytes reserve
UC      GAIN LO
UC      GAIN MID
UC      GAIN HI
UC      FREQ LO
UC      FREQ MID
UC      FREQ HI
4 bytes reserve
UC      VOICE SET
UC      OUTSEL
UC      CLICK MIDI OUT
UC      CLICK MODE
UC      PLAY COUNT
UC      REC COUNT
UC      SYNC MODE
UC      GLOBAL TEMPO
4 bytes reserve

[USER CLICK] * 3

UC      TUNE MSB7bit
UC      TUNE LSB7bit
UC      MASTER VOLUME
UC      REVERB BYPASS
UC      SWAP L/R
UC      AUTO INDIV OUTPUT
UC      SLIDER MODE
UC      AUXIN OUTSEL
3 bytes reserve
UC      RECORD LEVEL
UC      SAMPLE SOURCE SELECT
30 bytes reserve
-------------------------------------------------------
```

B.2 bulk dump - drumkit data

```
[PADNOTE] block
-------------------------------------------------------
type    NAME
-------------------------------------------------------
UC      MIDI NOTE NO
UC      GATE TIME
UC      MIDI CHANNEL
UC      VELOCITY TABLE
-------------------------------------------------------
```

```
[PADFUNC] block
-------------------------------------------------------
type    NAME
-------------------------------------------------------
UC      KEY ON MODE
UC      PAD FUNCTION
UC      PAD SONG DEVICE
UC      PAD SONG NO
UC      PAD SONG MODE
UC      PAD SONG REPEAT
UC      TRIGGER ALT GROUP
UC      RIM VELOCITY
-------------------------------------------------------
```

```
[PAD] block
-------------------------------------------------------
type    NAME
-------------------------------------------------------
[PADNOTE] * 16
UC      PAD TYPE
UC      GAIN
UC      MIN LEVEL
UC      MAX LEVEL
UC      MIN VELOCITY
UC      MAX VELOCITY
UC      VELOCITY CURVE
UC      SELF REJECTION MSB
UC      SELF REJECTION LSB
UC      REJECTION
UC      SPECIFIED REJECT INPUT NO
UC      SPECIFIED REJECT
UC      PAD CONTROL
[PADFUNC] * 3
-------------------------------------------------------
```

[MAP] block

type	NAME
UC	VOICE CATEGORY
UC	VOICE INDEX NO
UC	VOLUME
UC	PAN
UC	PITCH MSB 7bit
UC	PITCH LSB 7bit
UC	MODIFY
UC	FILTER
UC	Q
UC	ATTACK
UC	DECAY
UC	KEY ASSIGN MODE
UC	ALTERNATE GROUP
UC	KEY OFF/ON ENABLE
UC	OUTPUT SELECT
UC	REVERB SEND
UC	CHORUS SEND

[XMAP] block

type	NAME
UC	WAVE1
UC	WAVE2
UC	XS FILTER
UC	XS DECAY

[INS FX] block

type	NAME
UC	PARAMETER 1 MSB 7bit
UC	PARAMETER 1 LSB 7bit
UC	PARAMETER 2 MSB 7bit
UC	PARAMETER 2 LSB 7bit
UC	PARAMETER 3 MSB 7bit
UC	PARAMETER 3 LSB 7bit
UC	PARAMETER 4 MSB 7bit
UC	PARAMETER 4 LSB 7bit
UC	PARAMETER 5 MSB 7bit
UC	PARAMETER 5 LSB 7bit
UC	PARAMETER 6 MSB 7bit
UC	PARAMETER 6 LSB 7bit
UC	PARAMETER 7 MSB 7bit
UC	PARAMETER 7 LSB 7bit
UC	PARAMETER 8 MSB 7bit
UC	PARAMETER 8 LSB 7bit
UC	PARAMETER 9 MSB 7bit
UC	PARAMETER 9 LSB 7bit
UC	PARAMETER 10 MSB 7bit
UC	PARAMETER 10 LSB 7bit
UC	PARAMETER 11 MSB 7bit
UC	PARAMETER 11 LSB 7bit
UC	PARAMETER 12 MSB 7bit
UC	PARAMETER 12 LSB 7bit
UC	PARAMETER 13 MSB 7bit
UC	PARAMETER 13 LSB 7bit
UC	PARAMETER 14 MSB 7bit
UC	PARAMETER 14 LSB 7bit
UC	PARAMETER 15 MSB 7bit
UC	PARAMETER 15 LSB 7bit
UC	PARAMETER 16 MSB 7bit
UC	PARAMETER 16 LSB 7bit
UC	TYPE
UC	PAN
UC	REVSEND
UC	CHOSEND
UC	CONTROL NO
UC	CONTROL SENS
UC	OUT SELECT
1 byte reserve	

[REVERB] block

type	NAME
UC	PARAMETER 1
UC	PARAMETER 2
UC	PARAMETER 3
UC	PARAMETER 4
UC	PARAMETER 5
UC	PARAMETER 6
UC	PARAMETER 7
UC	PARAMETER 8
UC	PARAMETER 9
UC	PARAMETER 10
UC	PARAMETER 11
UC	PARAMETER 12
UC	PARAMETER 13
UC	PARAMETER 14
UC	PARAMETER 15
UC	PARAMETER 16
UC	TYPE
UC	RETURN LEVEL
UC	PAN
1 byte reserve	

[LOC] block

type	NAME
UC	PARAMETER 1
UC	PARAMETER 2
UC	PARAMETER 3
UC	PARAMETER 4
UC	PARAMETER 5
UC	PARAMETER 6
UC	PARAMETER 7
UC	PARAMETER 8
UC	PARAMETER 9
UC	PARAMETER 10
UC	PARAMETER 11
UC	PARAMETER 12
UC	PARAMETER 13
UC	PARAMETER 14
UC	PARAMETER 15
UC	PARAMETER 16
UC	TYPE
UC	DRUM SENSITIVITY
UC	ACMP SENSITIVITY
1 byte reserve	

[CHORUS] block

type	NAME
UC	PARAMETER 1
UC	PARAMETER 2
UC	PARAMETER 3
UC	PARAMETER 4
UC	PARAMETER 5
UC	PARAMETER 6
UC	PARAMETER 7
UC	PARAMETER 8
UC	PARAMETER 9
UC	PARAMETER 10
UC	PARAMETER 11
UC	PARAMETER 12
UC	PARAMETER 13
UC	PARAMETER 14
UC	PARAMETER 15
UC	PARAMETER 16
UC	TYPE
UC	RETURN LEVEL
UC	PAN
UC	CHORUS TO REVERB LEVEL

[TRNS] block

type	NAME
UC	ENABLE SW
UC	PROGRAM CHANGE
UC	BANK SELECT MSB
UC	BANK SELECT LSB
UC	VOLUME
UC	PAN
UC	C/C NUMBER
UC	C/C DATA
UC	REVERB SEND
UC	CHORUS SEND

drumkit data

type	NAME
8 bytes	NAME
[PAD] * 16	
[MAP] * 82	
[XMAP] * 1	
UC	F/C FUNCTION
UC	F/C SENSITIVITY
UC	HH CONTROL INPUT NO
UC	F/C MIDI CHANNEL
UC	F/C MIDI CONTROL NO
UC	F/S FUNCTION
UC	F/S MIDI VELOCITY
UC	F/S MIDI CHANNEL
UC	F/S MIDI CONTROL NO
UC	F/S MIDI OFF DATA
UC	F/S MIDI ON DATA
UC	INPUT 9TO10
UC	INPUT 11TO12
UC	ENABLE LOCALIZER
[INS FX] * 2	
[LOC] * 1	
[REVERB] * 1	
[CHORUS] * 1	
[TRNS] * 16	
UC	SONG SELECT DEVICE
UC	SONG SELECT NO
UC	TEMPO SELECT MSB 7bit
UC	TEMPO SELECT LSB 7bit
8 bytes	VOLUME FILE NAME
UC	EG WAVE
UC	EG TIME
UC	EG CONTROL NO
UC	EG MIDI CHANNEL
2 bytes	reserve

B.3 bulk dump - user voice stack data

[STACKVOICE] block

type	name
US	kbank number
UC	attenuation @0.75db
UC	shift
UC	tune @1.17cent
UC	fr 0-127, Mode 0x80
UC	f1
UC	lr
UC	ll
UC	rr
1 byte reserve	
UC	velTblNo
UC	fc kvs
UC	Q
US	fc
UC	volume boost
1 byte reserve	
US	peg L1
UC	peg R1
UC	pitch kvs
UC	atack kvs
UC	decay kvs
UC	stack enable
UC	EQ gain Lo
UC	EQ gain Hi
UC	EQ freq Lo
UC	EQ freq Hi
UC	Dip fc

stack data

type	name
ASCII	name
UC	HH xfade enable
UC	HH rate sens
[STACKVOICE]*4	

Table C: effect parameter details

C.1 HALL1~PLATE

param	range	name
1	0~69	reverb time
2	0~10	diffusion
3	0~63	initial delay
4	0~52	HPF cutoff frequency
5	34~60	LPF cutoff frequency
10	1~127	dry / wet balance
11	0~45	reverb delay
12	0~4	density
13	1~127	ER / rev balance
14	1~10	feedback high damp
15	1~127	feedback level

C.2 WHITE ROOM~BASEMENT

param	range	name
1	0~69	reverb time
2	0~10	diffusion
3	0~63	initial delay
4	0~52	HPF cutoff frequency
5	34~60	LPF cutoff frequency
6	0~37	width
7	0~73	height
8	0~104	depth
9	0~30	wall vary
10	1~127	dry / wet balance
11	0~45	reverb delay
12	0~4	density
13	1~127	ER / rev balance
14	1~10	feedback high damp
15	1~127	feedback level

C.3 CHORUS1~CHORUS4, CELESTE1~CELESTE4

param	range	name
1	0~127	LFO frequency
2	0~127	LFO depth
3	1~127	feedback level
4	0~127	delay offset
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
10	1~127	dry / wet balance
11	14~54	EQ mid frequency
12	52~76	EQ mid gain
13	10~120	EQ mid width
15	0~1	input mode mono / stereo

C.4 FLANGER1~FLANGER3

param	range	name
1	0~127	LFO frequency
2	0~127	LFO depth
3	1~127	feedback level
4	0~127	delay offset
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
10	1~127	dry / wet balance
11	14~54	EQ mid frequency
12	52~76	EQ mid gain
13	10~120	EQ mid width
14	4~124	LFO phase difference

C.5 SYMPHONIC

param	range	name
1	0~127	LFO frequency
2	0~127	LFO depth
3	0~127	delay offset
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
10	1~127	dry / wet balance
11	14~54	EQ mid frequency
12	52~76	EQ mid gain
13	10~120	EQ mid width

C.6 PHASER1

param	range	name
1	0~127	LFO frequency
2	0~127	LFO depth
3	0~127	phase shift offset
4	1~127	feedback level
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
10	1~127	dry / wet balance
11	"4,5,6"	stage
12	0~1	diffusion mono / stereo

C.7 ENSEMBLE DETUNE

param	range	name
1	14~114	detune
2	0~127	initial delay Lch
3	0~127	initial delay Rch
10	1~127	dry / wet balance
11	4~40	EQ low frequency
12	52~76	EQ low gain
13	28~58	EQ high frequency
14	52~76	EQ high gain

C.8 ROTARY SPEAKER

param	range	name
1	0~127	LFO frequency
2	0~127	LFO depth
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
10	1~127	dry / wet balance
11	14~54	EQ mid frequency
12	52~76	EQ mid gain
13	10~120	EQ mid width

C.9 TREMOLO

param	range	name
1	0~127	LFO frequency
2	0~127	AM depth
3	0~127	PM depth
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
11	14~54	EQ mid frequency
12	52~76	EQ mid gain
13	10~120	EQ mid width
14	4~124	LFO phase difference
15	0~1	input mode mono / stereo

C.10 AUTO PAN

param	range	name
1	0~127	LFO frequency
2	0~127	L/R depth
3	0~127	F/R depth
4	0~5	PAN direction
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
11	14~54	EQ mid frequency
12	52~76	EQ mid gain
13	10~120	EQ mid width

C.11 DISTORTION, OVERDRIVE

param	range	name
1	0~127	drive
2	4~40	EQ low frequency
3	52~76	EQ low gain
4	34~60	LPF cutoff frequency
5	0~127	output level
7	14~54	EQ mid frequency
8	52~76	EQ mid gain
9	10~120	EQ mid width
10	1~127	dry / wet balance
11	0~127	edge

C.12 AMP SIMULATOR

param	range	name
1	0~127	drive
2	0~3	AMP type
3	34~60	LPF cutoff frequency
4	0~127	output level
10	1~127	dry / wet balance
11	0~127	edge

C.13 HARMONIC ENHANCER

param	range	name
1	28~58	HPF cutoff frequency
2	0~127	drive
3	0~127	mix level

C.14 COMPRESSOR

param	range	name
1	0~19	attack
2	0~15	release
3	79~121	threshold
4	0~7	ratio
5	0~127	output level

C.15 NOISE GATE

param	range	name
1	0~19	attack
2	0~15	release
3	55~97	threshold
4	0~127	output level

C.16 AUTO WAH

param	range	name
1	0~127	LFO frequency
2	0~127	LFO depth
3	0~127	cutoff frequency offset
4	10~120	resonance
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
10	1~127	dry / wet balance

C.17 TOUCH WAH1, TOUCH WAH2

param	range	name
1	0~127	sensitive
2	0~127	cutoff frequency offset
3	10~120	resonance
6	4~40	EQ low frequency
7	52~76	EQ low gain
8	28~58	EQ high frequency
9	52~76	EQ high gain
10	1~127	dry / wet balance
16	52~67	release

C.18 2BAND EQ

param	range	name
1	4~40	EQ low frequency
2	52~76	EQ low gain
3	28~58	EQ high frequency
4	52~76	EQ high gain

C.19 3BAND EQ

param	range	name
1	52~76	EQ low gain
2	14~54	EQ mid frequency
3	52~76	EQ mid gain
4	10~120	EQ mid width
5	52~76	EQ high gain
6	8~40	EQ low frequency
7	28~58	EQ high frequency
15	0~1	input mode mono / stereo

C.20 FILTER

param	range	name
1	0~60	EQ HPF frequency
2	10~120	EQ HPF Q
3	0~60	EQ LPF frequency
4	10~120	EQ LPF Q

C.21 DELAY L, C, R

param	range	name
1	1~7429	delay time L
2	1~7429	delay time R
3	1~7429	delay time
4	1~7429	feedback time
5	1~127	feedback level
6	0~127	delay level C
7	1~10	feedback high damp
10	1~127	dry / wet balance
13	4~40	EQ low frequency
14	52~76	EQ low gain
15	28~58	EQ high frequency
16	52~76	EQ high gain

C.22 DELAY L, R

param	range	name
1	1~7429	delay time L
2	1~7429	delay time R
3	1~7429	feedback time 1
4	1~7429	feedback time 2
5	1~127	feedback level
6	1~10	feedback high damp
10	1~127	dry / wet balance
13	4~40	EQ low frequency
14	52~76	EQ low gain
15	28~58	EQ high frequency
16	52~76	EQ high gain

C.23 ECHO

param	range	name
1	1~3714	delay time L1
2	1~127	feedback level L
3	1~3714	delay time R1
4	1~127	feedback level R
5	1~10	feedback high damp
6	1~3714	delay time L2
7	1~3714	delay time R2
8	0~127	delay level
10	1~127	dry / wet balance
13	4~40	EQ low frequency
14	52~76	EQ low gain
15	28~58	EQ high frequency
16	52~76	EQ high gain

C.24 CROSS DELAY

param	range	name
1	1~3714	delay time L>R
2	1~3714	delay time R>L
3	1~127	feedback level
4	0~2	input select
5	1~10	feedback high damp
10	1~127	dry / wet balance
13	4~40	EQ low frequency
14	52~76	EQ low gain
15	28~58	EQ high frequency
16	52~76	EQ high gain

C.25 KARAOKE1~KARAOKE3

param	range	name
1	0~127	delay time
2	1~127	feedback level
3	0~52	HPF cutoff frequency
4	34~60	LPF cutoff frequency
10	1~127	dry / wet balance

C.26 LOCALIZER

param	range	name
1	0~4	HRTF
2	1~120	rotation
3	0~15	distance
4	0~60	angle

Drum Voice List

AcKick

G.No	Name	G.No	Name
1	St.DKik1	65	GATE2
2	St.DKik2	66	GATEbech
3	St.Kik1b	67	GateM
4	St.Kik2b	68	GM GATE
5	St.Kik3b	69	GMH
6	St.AmbBD	70	GMJ
7	St.BDdrk	71	GML
8	StBDbeat	72	GMM
9	StBDratl	73	GMM2
10	DryKick	74	GTRoom
11	BEECH22	75	Gr8Room
12	BEECH22T	76	HevyBsRm
13	BECHBASS	77	KONG1
14	BEECHAMB	78	KONG2
15	MCA20	79	LoRoom1
16	MCA20Dry	80	LoRoomS
17	MC20SOFT	81	MapleA22
18	MCA20amb	82	MapleAmb
19	MCA20Wet	83	MPL20Amb
20	MC20SfRM	84	MPL22Amb
21	MCA22	85	Metal
22	MCA22D	86	MONDO
23	MCABASS	87	MotoCity
24	MCA22AMB	88	MPGATE
25	MCV20	89	OpenFoot
26	MCV20D	90	OpenN'Mt
27	MCVBASS	91	PhDRY20D
28	MCV20AMB	92	PhiDRY20
29	MCV20GT	93	Player
30	MCV20Rom	94	PlayRoom
31	RC18	95	Punch!
32	RC18Jazz	96	Rock1
33	RC20	97	Rock2
34	RC20JAZZ	98	ROOM1
35	RC20MUF	99	ROOM2
36	2HeadHi	100	ROOM3
37	2HeadLo	101	ROOM4
38	2HedMed1	102	RoomBob
39	2HedMed2	103	ROOMer
40	AMBroom	104	Roomy1
41	Basic	105	Roomy2
42	BassCase	106	Roomy3
43	BassCasS	107	Roomy4
44	BDynoDog	108	Roomy5
45	BDynoDgS	109	SDRY 1
46	BDRockin	110	SDRY 2
47	BDambean	111	SDRY 3
48	BDnytime	112	SDRY 4
49	BDaftty1	113	SDRYB1
50	BDaftty2	114	SftPunch
51	BDbasc1	115	Simple
52	BDbasc2	116	Soft
53	BDbonzo2	117	SoftBotm
54	BDersko1	118	SoTight
55	BDevolvr	119	Sympathy
56	BDpalmer	120	Thumper
57	BDstomp1	121	TVDRY22
58	Bdvman	122	TVDRY22D
59	BigSofty	123	TVDry24
60	Bottom	124	WetDirt
61	Bushy	125	Who???
62	DarkRoom	126	XFKJak20
63	DryDirt	127	XGKICK
64	GATE1		

ElKick

G.No	Name	G.No	Name
1	Ambykik	65	Rave5
2	AnaQuick	66	RaveMIX
3	BD bass1	67	Revers
4	BDdigiro	68	RnB BD
5	BDfunky1	69	RoboKick
6	BDMxTek2	70	Scarface
7	BDlong1	71	ShortBak
8	BDNIN1	72	SIMN KIK
9	BDStreet	73	SparKick
10	BDTonka1	74	SpiraBD
11	BDTonka2	75	SpkrDNGR
12	BDTonik	76	SteelBD
13	BDudu1	77	Sub1
14	BDurban1	78	Sub2
15	BDurban2	79	Sub3
16	BigBoy	80	TEKHC1
17	BigBoy2	81	TEKHC2
18	Bigfoot	82	TEKHC3
19	BigSteam	83	TEKVFX
20	Boomer	84	TheBoot
21	BrkShot!	85	VeloRoom
22	Dance1	86	Walkik
23	Dance2	87	WudPoint
24	Dance3		
25	Dance4		
26	Dance5		
27	Dance6		
28	Dance7		
29	DelayBD		
30	DIGIBS		
31	DirtBD		
32	DlayBDlo		
33	DragKik		
34	DynamoHm		
35	ELEC1		
36	ELEC2		
37	EleShoot		
38	fefifofm		
39	GateAna		
40	HiTech		
41	HipHopB1		
42	HipHopB2		
43	HipHopB3		
44	HipKick		
45	Hopper		
46	IDbdmuff		
47	Indst1		
48	JingDrum		
49	Mr.E		
50	MgMIX 1		
51	MgMIX 2		
52	MgMIX 3		
53	MgMIX 4		
54	MtlPoint		
55	NN04C		
56	Off2War		
57	Pointy		
58	QuikBuzz		
59	Rainy		
60	RatlDrum		
61	Rave1		
62	Rave2		
63	Rave3		
64	Rave4		

AcSnr1

G.No	Name	G.No	Name
1	St.Smth1	65	LngTooth
2	St.Smth2	66	Manu55BS
3	St.SnRim	67	Manu55 R
4	St.Snare	68	X3Manu55
5	St.AmSn1	69	XManu55R
6	St.AmSn2	70	MapleAmb
7	St.AmSn3	71	MCA55
8	St.AmbR1	72	MCA55 R
9	St.AmbR2	73	MCA55bz
10	St.SDLg1	74	XMCA55EQ
11	St.SDLg2	75	MCV edge
12	St.SDLg3	76	MCV55
13	St.SDLg4	77	MCV55 R
14	St.SDRm4	78	MCV55buz
15	St.LgRM1	79	MCVdynam
16	St.LgRM2	80	Mick
17	St.LgRM3	81	Mick R
18	St.LgRM4	82	MP Cncrt
19	SDRippr	83	MP Elv70
20	SDRipprR	84	MP55amb
21	SDRavag	85	MP55amR
22	SDRavagR	86	MPElv70R
23	SDStanky	87	MPL1040
24	SDStankR	88	Mple550R
25	SDFatSlp	89	muter
26	SDFatSlR	90	OlHoller
27	SDAlite	91	PandaSnr
28	SDAliteR	92	Pecan
29	AJ137	93	PhilyPic
30	AJ137 R	94	PhilyRim
31	AMBomSD	95	RichShot
32	Bamboo	96	Ringer
33	BBoo L	97	RingGo
34	Beech55	98	SDtite1
35	Beech55R	99	SDtite1R
36	BeechAF	100	SlamDin2
37	BeechAR	101	SlngVINT
38	BeechedM	102	Smoothy
39	Big&Bad	103	X3Smooth
40	Big&BSHi	104	SN ambDG
41	Birch55	105	SN amBMC
42	Birch55R	106	SnapOn
43	BomSD	107	Sparky
44	Brass 65	108	Standby
45	Brass65B	109	Standby2
46	BrassMpl	110	Standby3
47	BrassRim	111	Steel 65
48	BS edge	112	Steel55F
49	DarkAmb	113	Steel65R
50	DG35 BS	114	SunSD
51	DryPICSD	115	TambSNpf
52	DW1355AL	116	TambSnrH
53	DW1455AL	117	TambSnrL
54	DW1455R	118	ThinMple
55	DW14amb	119	Tracker
56	DW14amR	120	VintageA
57	EarRing	121	VtgAtack
58	EarWig	122	WFLNYLOM
59	Franky	123	Wood7rim
60	FRP	124	WoodPic
61	HeartSD	125	XG 55
62	LightSD	126	XG 65
63	LitlDevl	127	XG SnMuf
64	LittlGuy		

AcSnr2

G.No	Name	G.No	Name
1	12soprno	65	Nashvill
2	AL&BS	66	OldCan
3	Amb 01	67	OpnRim
4	Amb 02	68	OpnRimA
5	Amb 03	69	OpnRimB
6	Ambient	70	OpnRimC
7	Ambient1	71	OpnRimD
8	AmbiRim	72	ParadeS
9	Ambt1rim	73	PhlyRiM
10	Barypic	74	Picket
11	Baryrim	75	Piclodry
12	BeatyRim	76	PicloRim
13	Beauty	77	PitchUp
14	BETA Sn	78	Powerpic
15	BigWdRim	79	Pwrpcrim
16	BigWood	80	RIMBrass
17	Binky	81	RIMdry1
18	BlastX	82	RIMetal
19	Blue90	83	RIMhipop
20	Blue90R	84	RIMnatrl
21	BluePIC	85	RIMouch!
22	Brass55	86	RIMrock
23	BrassRim	87	RIMwatts
24	Brassy	88	Rock
25	BrysnH	89	RockH
26	BrysnR	90	RockL
27	BsSteel	91	RockM
28	BuzRgRim	92	RoldGold
29	Buzzring	93	RoldRim
30	ClubOK	94	Room
31	ClubORri	95	SAmbie1
32	Cool Dry	96	SAmbie2
33	Deep&Dry	97	SAmbie3
34	Dry	98	SD1931W
35	Drygyrim	99	SD1932B
36	DryMetal	100	SDAmbBZ1
37	Fat looz	101	SDAmbBZ2
38	Fatbrass	102	SDbling
39	Fatbrim	103	SDblingR
40	Fusion	104	SDDryBZ3
41	Gate	105	SDRnBPht
42	Hip Hop	106	SDSizem'
43	J65wood	107	SDUnderU
44	Latinrim	108	SDUnderR
45	LesRim	109	SnareH
46	LiteMapl	110	SnareH2
47	LiteSnr1	111	SnareL2
48	Loosen1	112	SnareLes
49	Loosen2	113	SnareM
50	Loosy	114	SnrDeep
51	LoosyRim	115	SnarRngR
52	Looz Pic	116	SnrRngR2
53	X3Loosy	117	Steel65
54	X4Loosy	118	Sticky
55	Maple12	119	Timbrim
56	Maple55A	120	Tosh Sn
57	MapleV65	121	ToshL fi
58	Metalpic	122	TrashRIM
59	MickCJ8S		
60	MickDarS		
61	MickMHS		
62	MickOLD		
63	MrcSnrH		
64	MrcSnrM		

EleSnr

G.No	Name	G.No	Name
1	AnaAir	65	Manycure
2	AnaBuzz	66	MGtech
3	AnaBzRim	67	Mixing1
4	AnaDaRim	68	Mixing2
5	AnaDark	69	Philydry
6	AnaHit	70	PicDDD
7	AnAirRim	71	popSSD
8	Analog H	72	Rain
9	Analog L	73	Rapper
10	AnalogH1	74	RIMpopr
11	AnalogL1	75	RIMshort
12	AnaMeRim	76	RIMSHOT1
13	AnaMetal	77	RIMSHOT2
14	AnaShh	78	RIMSHOT3
15	AnaShRim	79	RockRim
16	AnaSlegh	80	Ruberbnd
17	AnaSlRim	81	S Gate1
18	AnaTite	82	S Gate2
19	AnaVel	83	S Gate3
20	AnVelRim	84	S RuberS
21	AnaWee	85	SAmbie1
22	AnaWeRim	86	SAmbie2
23	AnaWide	87	SAna1
24	AnaWiRim	88	SAna2
25	AnHitRim	89	SAna3
26	AnSStick	90	SDCrunch
27	Blaaaghf	91	Sddark!
28	Bowwow	92	SDdkrim
29	CapGun	93	SDind58
30	CapRim	94	SDPunch2
31	Dance	95	SDRAW1
32	Dance01	96	SDRAW2
33	Dance02	97	SDStreet
34	Dance03	98	Sheetmtl
35	Dance04	99	Shmtlrim
36	Dance05	100	Shotgun
37	DanceP	101	SimMIX
38	DelaySN	102	SimmnS
39	DelyShot	103	Smacker
40	DIGISD	104	Snarf
41	DirtSN	105	SnarfRim
42	Distort	106	SnBright
43	ElecShot	107	SnDelay
44	Electric	108	SnSpctcl
45	Electrik	109	SoppSD
46	EltrcRIM	110	SpiraSN
47	Eno rim	111	SteelSN
48	Enotype	112	SteelRim
49	Fact rim	113	TechoSN
50	Factory	114	TECHSD1
51	Fantam	115	TECHSD2
52	FantaRim	116	TECHSD3
53	Filtroll	117	Tekk1
54	Filtrrim	118	Tekk2
55	FX	119	Tekk3
56	FX rim	120	tkattak!
57	FXTekSD3	121	TV hihop
58	GhiGateS	122	TV SN A
59	GrittySN	123	UnclAB
60	HandSD	124	UnclARim
61	Hi5Rim	125	WackyEFX
62	HiFive		
63	JnglSD1		
64	JnglSD2		

OtrSnr

G.No	Name	G.No	Name
1	BrHdMute	65	SnRoll1
2	BrHdMutP	66	SnRoll2
3	Brsh	67	SN RollL
4	Brsh H	68	SN Roll
5	Brsh1Rim	69	Roller
6	Brsh2Rim	70	RO_S
7	BrshAtak	71	ASOBI
8	BrshHit1	72	Dry Guy
9	BrshHrd2	73	Dryroom
10	BrshOpen	74	RolrBall
11	BrshSc	75	41/2strk
12	BrshSlp	76	4strkRUF
13	BrshSlpL	77	RollaRuf
14	BrshSwep	78	Buzz
15	BrshSwp2	79	Drag
16	BrshTap	80	Flam
17	BrshTpF	81	FlamaRuf
18	BrshTpSo	82	Flammy
19	BrsUpRim	83	FlubityB
20	BrSwH	84	PingPong
21	BrSwL	85	Mn.BuzX2
22	BrSwTime	86	Mn.BuzX3
23	BrSwTRim	87	Mn.BuzX4
24	BrushHrd	88	Mn.BuzX5
25	BrushOpn	89	Mn.BuzX6
26	BrushPly	90	Mn.BuzX7
27	BruhPly2	91	St.BuzX1
28	BrushSwp	92	St.BuzX2
29	BrsXfad1	93	Elem1
30	BrsXfad2	94	Elem2
31	St.CStk1	95	Elem3
32	St.CStk2	96	JelyRoll
33	St.CStk3	97	RollEm1
34	St.AmbCS	98	RollEm2
35	SdStkDry	99	RollEm3
36	SStck1	100	RollRim1
37	SStck2	101	RollRim2
38	SStck3	102	RollRim3
39	SStickWB	103	MixSSD
40	Xstick	104	Snippet
41	XstickON	105	Snippet2
42	GARim		
43	RealRim		
44	StickOak		
45	Stickpon		
46	StickRed		
47	STK_HT		
48	SnrOff1		
49	SnrOff1R		
50	SnrOff2		
51	SnrOff2R		
52	SnrOff3		
53	SnrOff3R		
54	SnrOff4		
55	SnrOff4R		
56	SnrOff5		
57	SnrOff5R		
58	SnrOff6		
59	SnrOff6R		
60	SnrOff7		
61	SnrOffTm		
62	SnrOff8		
63	AmSnOff		
64	AmSnOffR		

XtrSnr

Wave1	
G.No	**Name**
1	MapI1370
2	MCAbs55
3	MCVint5
4	Beech55
5	Maple55
6	Alumin55
7	Brass35
8	Brass55
9	Brass65
10	Steel65
11	Bamboo
12	FRPSnr

Wave2	
G.No	**Name**
1	warm
2	crisp
3	cool
4	short
5	punchy
6	BS
7	silky
8	bright
9	old
10	VOX1
11	VOX2
12	VOX3
13	rool
14	trash

AcTom1

G.No	Name	G.No	Name
1	St.TomH	65	XTMMCA16
2	St.TomM	66	XTMCV10
3	St.TomL	67	XTMCV12
4	St.TomF	68	XTMCV13
5	St.Tom2H	69	XTMCV16
6	St.Tom2M	70	TMMC&A10
7	St.Tom2L	71	TMMC&A12
8	St.Tom2F	72	TMMC&A14
9	St.FzTmH	73	TMMC&A16
10	St.FzTmM	74	TMMPG10
11	St.FzTmL	75	TMMPG12
12	St.FzTmF	76	TMMPG13
13	St.AmTmH	77	TMMPG16
14	St.AmTmM	78	TMLRC10C
15	St.AmTmL	79	TMLRC12C
16	St.AmTmF	80	TMLRC13C
17	St.NyTmH	81	TMLRC16C
18	St.NyTmM	82	XLGBCA10
19	St.NyTmL	83	XLGBCA12
20	St.NyTmF	84	XLGBCA13
21	MCA10CL	85	XLGBCA16
22	MCA12CL	86	MCA10abi
23	MCA14CL	87	MCA12abi
24	MCA16CL	88	MCA14abi
25	MCA10	89	MCA16abi
26	MCA12	90	MCA10ab2
27	MCA14	91	MCA12ab2
28	MCA16	92	MCA14ab2
29	MCV10CL	93	MCA16ab2
30	MCV12CL	94	MCV10abi
31	MCV13CL	95	MCV12abi
32	MCV14CL	96	MCV14abi
33	MCV16CL	97	MCV16abi
34	MC10	98	MPL10ab2
35	MC12	99	MPL12ab2
36	MC14	100	MPL14ab2
37	MC16	101	MPL16ab2
38	MC10J	102	MC10ab2
39	MC12J	103	MC12ab2
40	MC14J	104	MC14ab2
41	DryMPL10	105	MC16ab2
42	DryMPL13	106	BCH10abi
43	DryMPL14	107	BCH12abi
44	DryMPL16	108	BCH14abi
45	RC10PN	109	BCH16abi
46	RC12PN	110	BCH10ab2
47	RC14PN	111	BCH12ab2
48	RC16PN	112	BCH14ab2
49	RC10CL	113	BCH16ab2
50	RC12CL		
51	RC14CL		
52	RC16CL		
53	BCA10		
54	BCA12		
55	BCA14		
56	BCA16		
57	BEECH10		
58	BEECH12		
59	BEECH14		
60	BEECH16		
61	BEECH18R		
62	XTMMCA10		
63	XTMMCA12		
64	XTMMCA13		

AcTom2

G.No	Name	G.No	Name
1	TMMvAm10	65	BrshJzLo
2	TMMvAm12	66	BrshJzFl
3	TMMvAm13	67	BrshRkHi
4	TMMvAm16	68	BrshRkMd
5	TMGrAm10	69	BrshRkLo
6	TMGrAm13	70	BrshRkFl
7	TMGrAm14	71	Dry1 Hi
8	TMGrAm16	72	Dry1 Mid
9	TMBeAm10	73	Dry1 Lo
10	TMBeAm12	74	Dry1 Flr
11	TMBeAm14	75	DRY GM6
12	TMBeAm16	76	DRY GM5
13	MALLET10	77	DRY GM4
14	MALLET12	78	DRY GM3
15	MALLET14	79	DRY GM2
16	MALLET16	80	DRY GM1
17	TMMallSH	81	Maple10
18	TMMallSM	82	Maple12
19	TMMallSL	83	Maple14
20	TMMallSF	84	Maple16
21	DRY8	85	Lite Hi
22	DRY10	86	Lite Mid
23	DRY12	87	Lite Lo
24	DRY14	88	Lite Flr
25	DRY16	89	JAZZ10
26	XG8	90	JAZZ12
27	XG10	91	JAZZ14
28	XG12	92	JAZZ16
29	XG14	93	TOMntrlH
30	XG16	94	TOMntrlM
31	TMTom10	95	TOMntrlL
32	TMTom12	96	TOMntrlF
33	TMTom14	97	Dry2 Hi
34	TMTom16	98	Dry2 Mid
35	NY8abi	99	Dry2 Lo
36	NY10abi	100	Dry2 Flr
37	NY13abi	101	TMhybrdH
38	NY16abi	102	TMhybrdM
39	NY18abi	103	TMhybrdL
40	V TOM10	104	TMhybrwF
41	V TOM12	105	BRYTOM1
42	V TOM14	106	BRYTOM2
43	V TOM16	107	FASRTOM1
44	RichTom1	108	FASRTOM2
45	RichTom2	109	RatlTomH
46	RichTom3	110	RatlTomL
47	RichTom4		
48	IvoryTmH		
49	IvoryTmM		
50	IvoryTmF		
51	X3BigT12		
52	X3BigT14		
53	X3BigT16		
54	X3BigT18		
55	TMLBRSHH		
56	TMLBRSHM		
57	TMLBRSHL		
58	TMLBRSHF		
59	TMSBRSHH		
60	TMSBRSHM		
61	TMSBRSHL		
62	TMSBRSHF		
63	BrshJzHi		
64	BrshJzMd		

AcTom3

G.No	Name
1	Room3 Hi
2	Room3Mid
3	Room3 Lo
4	Room3Flr
5	RoomP H
6	RoomP M
7	RoomP L
8	RoomP F
9	RoomQH
10	RoomQM
11	RoomQL
12	RoomQF
13	Room 6
14	Room 5
15	Room 4
16	Room 3
17	Room 2
18	Room 1
19	Rock 6
20	Rock 5
21	Rock 4
22	Rock 3
23	Rock 2
24	Rock 1
25	SAmbTmH
26	SAmbTmM
27	SAmbTmL
28	SAmbTmF
29	AmbTomH
30	AmbTomM
31	AmbTomL
32	AmbTomF
33	ACTomH
34	ACTomM
35	ACTomL
36	ACTomF
37	Night10
38	Night12
39	Night14
40	Night16
41	TOMXfadH
42	TOMXfadM
43	TOMXfadL
44	TOMXfadF

EleTom

G.No	Name	G.No	Name
1	Ana 1Hi	65	ETMooRL
2	Ana 1Mid	66	ETMooRXL
3	Ana 1Lo	67	IndTmH
4	Ana 1Flr	68	IndTmM
5	Ana 2Hi	69	IndTmL
6	Ana 2Mid	70	IndTmF
7	Ana 2Lo	71	DIGITOM1
8	Ana 2flr	72	DIGITOM2
9	AnlgTom6	73	DIGITOM3
10	AnlgTom5	74	TECHTOM1
11	AnlgTom4	75	TECHTOM2
12	AnlgTom3	76	SpiraTM1
13	AnlgTom2	77	SpiraTM2
14	AnlgTom1	78	DirtTM1
15	TEKK 1H	79	DirtTM2
16	TEKK 1M	80	DirtTM3
17	TEKK 1L	81	WetThumH
18	TEKK 1F	82	WetThumL
19	TEKK 2H	83	StrngTom
20	TEKK 2M	84	TOM2010
21	TEKK 2L	85	TOMDOOMH
22	TEKK 2F	86	TOMDOOML
23	TEKK 3H	87	TOMNTRL
24	TEKK 3M	88	Tombienc
25	TEKK 3L	89	TomCymH
26	TEKK 3F	90	TomCymL
27	AnaIndsH	91	FXTekTM1
28	AnaIndsM	92	FXTekTM2
29	AnaIndsL	93	TalkTom
30	AnaIndsF	94	TM Revrs
31	E Tom6	95	Analog
32	E Tom5	96	T GongE
33	E Tom4		
34	E Tom3		
35	E Tom2		
36	E Tom1		
37	SIMTOM H		
38	SIMTOM M		
39	SIMTOM L		
40	SIMTOM F		
41	SIMDryH		
42	SIMDryL		
43	SIMAmbH		
44	SIMAmbL		
45	SIMAmb2H		
46	SIMAmb2M		
47	SIMAmb2L		
48	Q TomHi		
49	Q TomMid		
50	Q TomLo		
51	HybridH		
52	HybridM		
53	HybridL		
54	HybridF		
55	ElectrcH		
56	ElectrcM		
57	ElectrcL		
58	ElectrcF		
59	Distrt H		
60	Distrt M		
61	Distrt L		
62	Distrt F		
63	ETMooRH		
64	ETMooRM		

Cymbal

G.No	Name	G.No	Name
1	St.Crsh1	65	SizzlRck
2	St.Crsh2	66	SizzRide
3	DryCrsh1	67	RideB20K
4	DryCrsh2	68	RideBTip
5	DryCrsh3	69	Bell A
6	BriteCrs	70	RidB Drk
7	CR S18	71	RidB Lit
8	CR S18S	72	RidB Rc
9	CR Z18	73	RidXfad1
10	CR Z18S	74	RidXfad2
11	Crash 1	75	RidXfad3
12	Crash 2	76	St.Splsh
13	Crash 3	77	St.Spls2
14	Crash1Si	78	"6""splash"
15	CrshAC	79	Splash 1
16	Crash 16	80	Splash 2
17	CrshDRK	81	Splash 3
18	FasCrash	82	Splash 4
19	Fast 14	83	Splash 5
20	Fast 17	84	Splash 6
21	PaperThn	85	Splash 7
22	ReverseC	86	St.China
23	SoftRoll	87	StChina2
24	St.Ride1	88	St.ChQkH
25	St.Cup1	89	St.ChQkL
26	St.Ride2	90	St.Piggy
27	St.Cup2	91	St.Chtoy
28	St.Ride3	92	"6""china "
29	St.Cup3	93	ChiMiSiz
30	DryRide	94	China
31	DryCup	95	China XG
32	DryRdSzl	96	Chinese
33	DryRdSzC	97	ChiXGSiz
34	AmbRide1	98	MinChina
35	AmbCup1	99	Clusher
36	AmbRide2	100	TrashCR1
37	AmbCup2	101	TrashCR2
38	AmbRide3	102	TrashRid
39	AmbCup3	103	TrashBEL
40	DeepCym	104	W.Cym
41	FlatTopA	105	HCym1
42	FlatTopB	106	HCym2
43	FTopSizz	107	HCymClsL
44	JazzRide	108	HCymClsM
45	RideAC22	109	HCymOpnL
46	Ride'EM	110	HCymOpnM
47	RideFTK	111	C FX01
48	RideFTKS	112	C FX02
49	RideKC1S	113	CR VFX
50	RideKC21	114	FXTekRid
51	RideKC22	115	DstrtRid
52	RideLite	116	DstrtCup
53	RideMini	117	RideVFDy
54	RideP21	118	RideVFX1
55	Rider 3	119	RideVFX2
56	RideS Si	120	FXCrshEg
57	RideS21	121	DIGICC
58	RideXG	122	DIGIRC
59	RockRide	123	GlassCr
60	RideSide	124	GlasRide
61	SizzlDrk	125	AngCym
62	Sizzle A	126	Ride Anl
63	Sizzler		
64	SizzlLit		

HiHat

G.No	Name	G.No	Name
1	AmbHHCls	65	H OpnLA1
2	AmbHHClE	66	H OpnLA2
3	AmbHHOpn	67	PDL XG1
4	AmbHHFtC	68	PDL XG2
5	St.HHCls	69	PDLAC13
6	St.HHOpn	70	H Pdl13
7	St.HHFt	71	H PdlDW
8	St.HHSpl	72	H PdlLit
9	DryHHCls	73	H PdlMu
10	DryHHClE	74	H PdlNB
11	DryHHOpn	75	HHFTpdl1
12	DryFtCls	76	Hpdlcls1
13	Close01	77	Hpdlcls3
14	Close02	78	FTsplRK
15	Close03	79	FTsplRK2
16	Close04	80	FTsplsh1
17	Close09	81	H SplNB
18	Close0X	82	H Splsht
19	Cls01AC	83	Hpsplsh1
20	Cls01NB	84	FSplshAC
21	Cls02AC	85	FSplshV
22	ClsAC13F	86	LiteHatC
23	ClsAC13P	87	LiteHatO
24	ClsAC13X	88	DarkHatC
25	ClsSHFT	89	DarkHatO
26	RealHatC	90	DarkHatF
27	H Cls01	91	HatPin
28	H Cls13	92	DIGIHHC
29	H ClsA1	93	DIGIHHO
30	H ClsA2	94	DstrtHHC
31	H ClsMu	95	DstrtHHO
32	H ClsNB1	96	DstrtHHF
33	H TiCls1	97	LitlHats
34	H TiCls2	98	TEKHH1
35	HH32cls	99	TEKHH2
36	HHbrtcls	100	TinyHHOp
37	HHcl2Xfd	101	TinyHHCl
38	HHclsXfd	102	TinyHHSp
39	Bell		
40	Bell tip		
41	H ClsTc1		
42	H ClsTc3		
43	ClsDance		
44	Open09		
45	Open ACL		
46	Open01		
47	Open01L		
48	Open02		
49	Open02L		
50	Opn01AC		
51	Opn02AC		
52	QOpen AC		
53	RealHatO		
54	Open01		
55	H OPMu		
56	H Opn13		
57	H OpnDW		
58	H OpnL1		
59	H OpnL3		
60	H OpnLK		
61	H QOPMu		
62	HHopen#1		
63	H OpnAMu		
64	H OpnAn		

Percs1

G.No	Name	G.No	Name
1	AgogoCh	65	Maracas2
2	AgogoL	66	Maracas3
3	AgogoH	67	Maracas4
4	AgogoAgu	68	MtBel
5	AgogoJun	69	Mtron
6	AnCongaM	70	Scrach
7	AnCowbll	71	ShakerNw
8	AnMaracs	72	Shake1
9	ATR	73	Shake2
10	BassDr	74	ShakeA
11	Bell	75	SlBell
12	Bell Tre	76	SteelDrm
13	Bongo Hi	77	Surdo
14	Bongo Lo	78	SurdoM
15	Bongo Mu	79	SurdoLo
16	Cabasa1	80	Taiko
17	Cabasa2	81	TalkD
18	Castanet	82	TalknDrD
19	Clap8	83	TalknDrU
20	ClapA	84	TalknDrV
21	Clvs	85	TamborAb
22	ClvsA	86	TamborDe
23	Conga Hi	87	TamborVo
24	Conga Lw	88	TambA
25	CongaTw	89	TambHH
26	Conga	90	Tambour1
27	Conga8H	91	Tambour2
28	CongaC	92	Tambour3
29	CongaG	93	Tambour4
30	CongaH	94	Timbale
31	CongaM	95	Timbal1H
32	CongaMV	96	Timbal1L
33	CongAn	97	Timbal2H
34	CongaO	98	Timbal2L
35	CongaS	99	TimCas
36	CongBe	100	TimpH
37	CongC7	101	TimpL
38	CowB1	102	Triangl
39	CowB2	103	Trianglo
40	CowB3	104	TriMute1
41	CowBAn	105	TriMute2
42	CowBM	106	TriMute3
43	CuicaAgu	107	XfadeTri
44	CuicaMed	108	VibrSlap
45	CuicaH	109	WCHim
46	CuicaL	110	Whist
47	EthWB	111	WHP
48	FSnap2	112	WoodBloc
49	Gong1	113	SWhistH
50	Gong2	114	SWhistL
51	Gong3		
52	GrCassa		
53	GrCassaM		
54	GrCassGM		
55	GCasMtGM		
56	Guiro		
57	GuiShtHi		
58	GuiShtLo		
59	HiQ		
60	JingBell		
61	Kalmb		
62	Log H		
63	Log L		
64	Maracas1		

Percs2

G.No	Name	G.No	Name
1	A Bndiel	65	ChnBGRol
2	A Bndi D	66	ChnBGRo2
3	A Bndi T	67	ChnBGRo3
4	A Duf D1	68	ChnBGRo4
5	A Duf D2	69	ChnCym
6	A Duf T1	70	ChnHCym
7	A Duf T2	71	ChnDrm1
8	A Duf T3	72	ChnDrm2
9	A Finger	73	Djem1Edg
10	A Haga1	74	Djem1Ed2
11	A Haga2	75	Djem1Sub
12	A Haga3	76	Dje1SlpO
13	A Haga4	77	Dje1SlpM
14	A Clap1	78	Djembe2
15	A Clap2	79	Djem2Sub
16	A Req	80	Djem2SbM
17	A ReqDum	81	Djem2/24
18	A ReqTak	82	Dje2/24S
19	A ReqBrs	83	Djem2Edg
20	A SagatC	84	G Chench
21	A SagatO	85	G Kajaha
22	Tabla Ta	86	G Kundan
23	TablaTk1	87	G Kundn2
24	TablaTkH	88	G Kundn3
25	TablaTkL	89	G Kununa
26	TablaDum	90	G Tinkrk
27	Tabla B	91	G Tnkrk2
28	Tabla BL	92	J Yagura
29	Tabla BM	93	J YagrD1
30	Tabla BV	94	J YagrR1
31	Tabla OV	95	J YagrDM
32	TablaH	96	J YagrD2
33	TablaM	97	J YagrR2
34	TablaN	98	J Okawa
35	TablaO	99	J Atarg
36	TablaLP	100	J AtargM
37	TablPlay	101	J AtrgM2
38	TabFilLP	102	J ShimD1
39	TablaFil	103	J ShimD2
40	Udo	104	J ShimD3
41	Udo F	105	J ShimD4
42	Udo H	106	J ShimD5
43	Udo L	107	J ShDrl1
44	Udu808H	108	J ShDrl2
45	Udu808L	109	J ShDrl3
46	CAXIXI	110	J Tsuzmi
47	PandroCa	111	J TsuzmO
48	PandroDe	112	J TsuzmM
49	PandTre	113	J OhtsuC
50	PandTre2		
51	RecoReco		
52	Recoldpf		
53	Recolda3		
54	RepnqAbr		
55	RepnqAnl		
56	RepnqDed		
57	RepnqMao		
58	RpnqMMao		
59	RepnqKet		
60	ZabumbaA		
61	ZabumbaS		
62	ZabumbaV		
63	ChnBGfHi		
64	ChnBGfLo		

Efect1

G.No	Name	G.No	Name
1	6AMBreth	65	Ring
2	Ambush	66	RubbrOil
3	AMRhythm	67	Scream
4	Applau	68	Seasho
5	Bird	69	Shazam!
6	Bird-P	70	SlikRoad
7	Bottle	71	SloSprkl
8	BreakOut	72	Stream
9	BrsHit	73	TablaX
10	BuzzyWak	74	TakeOff
11	C Crash	75	TekGt
12	CarPss	76	Thundr
13	CBRadi	77	TimbTimp
14	ComVc	78	TineDrum
15	CoolSA	79	Tire
16	Creature	80	TungDrum
17	Crush	81	TV vo
18	CStart	82	TymKeepr
19	Didger	83	USS
20	Dog	84	VoclShKR
21	DogHats	85	WetMetal
22	Door	86	Yadee
23	DSqrm		
24	FM Met		
25	FStep		
26	Funky		
27	Gargoyle		
28	Glass1		
29	Gun 1		
30	Gun 2		
31	Gun 3		
32	HaHoHee		
33	HandyDad		
34	HandySon		
35	Heli		
36	HipNs		
37	INDbells		
38	INDchina		
39	INDconga		
40	INDcrash		
41	InddogCR		
42	INDhihat		
43	INDrave		
44	INDride		
45	INDride2		
46	INDride3		
47	INDshakr		
48	Indust		
49	InsAmb		
50	Laugh		
51	LoMo		
52	MetalDip		
53	MotoM		
54	Motor		
55	NoyzEB		
56	OOOWWW		
57	OrchSmsh		
58	OrcHt1		
59	OrcHt2		
60	PAD		
61	RatlBoom		
62	RaveRide		
63	RaveWave		
64	Reverse		

Efect2

G.No	Name	G.No	Name
1	Critter	65	JNGBASS1
2	Disorien	66	JNGBASS2
3	DroPiano	67	JNGBASS3
4	FXSimmer	68	JNGBASS4
5	IntroFX	69	JNGBASS5
6	LrgMarg	70	JNGBASS6
7	PierceFX	71	JNGBASS7
8	ST.Slapr	72	JNGBASS8
9	ST.TeeZ1	73	JNGLSN1
10	ST.TeeZ2	74	JNGLSN2
11	ST.TeeZ3	75	JNGLSN3
12	ST.TeeZ4	76	JNGLSN4
13	ST.TeeZ5	77	JNGLSN5
14	ST.TeeZ6	78	JNGLSN6
15	ST.TeeZ7	79	JNGLSN7
16	ST.TeeZ8	80	JNGLSN8
17	ST.TeeZ9	81	JNGLSN9
18	ST.TekS1	82	JNGLSN10
19	ST.TekS2	83	JNGLSN11
20	St.VFX1	84	JURASSIC
21	UndrGrnd	85	Laugher1
22	AmbHit01	86	Laugher2
23	AmbHit02	87	MissShot
24	AmbHit03	88	MOSHER
25	ANAFROGR	89	OutChord
26	ANVILISH	90	PANKY
27	ASCENDER	91	PEEPER
28	BDSUBSNK	92	POINGER
29	BOUNCER	93	POPPX
30	Cartoon1	94	PULSAR1
31	Cartoon2	95	PULSAR2
32	Cartoon3	96	PULSAR3
33	Cartoon4	97	Punch!
34	CLOUDS	98	QueSPACE
35	D&BFRAG1	99	RADAMACU
36	D&BFRAG2	100	RUNNER
37	D&BFRAG3	101	SCRUNCH
38	D&BFRAG4	102	SEAMNSTR
39	D&BFRAG5	103	SEMILOOP
40	DALIBAS1	104	SHUTDOWN
41	DALIBAS2	105	SPIKER
42	DEEPDIVE	106	StepHorn
43	Dimestop	107	SUKRPNCH
44	DnBsd76	108	TAMTAMY
45	DOOMED	109	TENDO
46	DOPPLER	110	TRAINBRK
47	DUCKSTER	111	TRANQUL
48	FRAG01	112	Trash
49	FRAG02	113	UMK 47
50	FRAG03	114	Vocal04
51	FRAG04	115	VOLTAGE
52	FRAG05	116	WAKX PAD
53	FRAG06	117	WayLong
54	FRAG07	118	WINER
55	FRAG08	119	WYZOG
56	FRAG09		
57	FRAG10		
58	FRAG11		
59	FRAG12		
60	GOWAH		
61	GRONKER		
62	GUMYBASS		
63	Hammer		
64	IRONBASS		

Efect3

G.No	Name	G.No	Name
1	Amb Hi	65	Ribbit
2	Amb Lo	66	Ricochet
3	Amb4db	67	Running
4	AsianBel	68	SANDMAN
5	BEEZDR	69	Scream
6	BixBeadz	70	SEQ2010
7	BIZBASS	71	Sexy
8	Boombam	72	Sinuses
9	BOONDWAT	73	SLoop1
10	Boooom!!	74	SLoop2
11	Breezin1	75	Spiralon
12	Breezin2	76	Spirlon2
13	Come'in	77	TEHRAN
14	Come'on	78	TEKBASS1
15	Crazstab	79	TEKNEW1
16	DBbdfx	80	TEKNEW2
17	DBflufer	81	TEKNEW3
18	DBfrag1	82	TEKNEW4
19	DBfrag2	83	TEKNEW5
20	DBfrag3	84	TRAILNOR
21	DBfrag4	85	Tree
22	DBsnbd	86	Tweeters
23	DogChaze	87	VAPORIZE
24	Drink?!?	88	VFXBASS
25	DUOFRG1	89	VFXLPFG1
26	DUOFRG2	90	VFXLPFG2
27	Evilamb	91	Vnlspn
28	Fall	92	Vocodvox
29	fantSoun	93	WatrBell
30	FATRIZER	94	WhichWay
31	Fizlshot	95	ZAPOIDS1
32	Frapnel1	96	ZAPOIDS2
33	Frapnel2	97	ZAPOIDS3
34	GEDDON	98	ZAPOIDS4
35	Ghost!!!	99	ZAPOIDS5
36	GlasJngl	100	Zip Opn
37	GumiDrop	101	Zip fire
38	Gun Bass	102	Zip Cls1
39	HighNote	103	Zip Cls2
40	IDbicuit		
41	IDbright		
42	JLP		
43	LittleBe		
44	LoFiDlay		
45	LoozPhat		
46	METOID1		
47	METOID2		
48	Mnagerie		
49	MultiBas		
50	MUSE 1		
51	MUSE 2		
52	NEBULA		
53	newbreed		
54	nightbar		
55	No48.1		
56	No48.2		
57	NOYBER		
58	Padster		
59	RainSSS		
60	Ready?		
61	RevdbHL		
62	Rhimz		
63	Rhodeyze		
64	Rhody		

Loop

G.No	Name	G.No	Name
1	AlienSp	65	Revloon
2	BigBeat	66	Rolly
3	Blaznoz	67	ScrewLP
4	Cybryawn	68	SlicLoop
5	C'Y'DNCE	69	SNAPLOOP
6	Cymbloop	70	Spirals
7	Danse??	71	SpyShift
8	DBloop	72	StreamLP
9	DBpanefx	73	SwingnL
10	DBrevbt	74	TranZyLP
11	DBtrbeat	75	TriLoop
12	DIGERDO	76	UK2x2LP
13	DigiTime	77	UptownL
14	DncFoot	78	VFXLoop
15	DpAfair	79	VFX2Loop
16	DruggdLp	80	WE LOOP
17	Dubby		
18	E NZE		
19	ET Loop		
20	EvlLoop		
21	FactryLP		
22	Go UP!		
23	HeliLoop		
24	HellsBel		
25	HipLoop		
26	Hipspoof		
27	Hollis L		
28	House1		
29	IDloop		
30	Indian		
31	JgFrag1		
32	JgFrag2		
33	JgFrag3		
34	JgLoop1		
35	JgLoop2		
36	JgLoop3		
37	JgLoop4		
38	JgLoop5		
39	JgLoop6		
40	JgLoop7		
41	JgLoop8		
42	JgLoop9		
43	JgLoop10		
44	JngleLuv		
45	KillnL		
46	Laurattl		
47	Lexrloop		
48	LITELOOP		
49	LoMLoop		
50	LoMO LP		
51	LoMsolo		
52	LoopFrg1		
53	LoopFrg2		
54	LoopHole		
55	Lowdown		
56	LPloop1		
57	LPloop2		
58	MachineL		
59	NightLP		
60	NYCLoop		
61	PhotoLP		
62	Printprz		
63	PsychoLP		
64	Reveroov		

Voice

G.No	Name	G.No	Name
1	BD1 LR	65	Count 5S
2	BD1 TW	66	Count 6S
3	BD2 LR	67	Count 7S
4	BD3 LR	68	Count 8S
5	SD1 LR	69	Count 9S
6	SD2 LR	70	Count10S
7	SD3 LR	71	Count11S
8	SD4 LR	72	Count12S
9	SD5 LR	73	Count13S
10	SD5 TW	74	Count14S
11	SD6 LR	75	Count15S
12	SD7 LR	76	Count16S
13	TOM 1 H		
14	TOM 1 M		
15	TOM 1 L		
16	TOM 1 F		
17	TOM 2 H		
18	TOM 2 M		
19	TOM 2 L		
20	TOM 2 F		
21	SIMM H		
22	SIMM M		
23	SIMM L		
24	SIMM F		
25	Conga H		
26	Conga L		
27	Conga Mu		
28	Conga Sf		
29	Cabasa		
30	CabasSht		
31	Cowbell		
32	ChestTOM		
33	HH Cls		
34	HH Qter		
35	HH Opn		
36	Splash		
37	Ride		
38	SteamCy		
39	WaterCy		
40	Count 1		
41	Count 2		
42	Count 3		
43	Count 4		
44	Count 5		
45	Count 6		
46	Count 7		
47	Count 8		
48	Count 9		
49	Count 10		
50	Count 11		
51	Count 12		
52	Count 13		
53	Count 14		
54	Count 15		
55	Count 16		
56	Count A		
57	Count An		
58	CountAnd		
59	Count Da		
60	Count E		
61	Count 1S		
62	Count 2S		
63	Count 3S		
64	Count 4S		

Melody

G.No	Name
1	Brass 4
2	Brass 5
3	Celesta
4	Chor 516
5	Chor 539
6	Chorus 4
7	GlockenH
8	GlockenL
9	GlockenM
10	Marimba
11	MTrp 4
12	ORGAN 3
13	SBrass 4
14	SBrass 5
15	sitar599
16	SteelDr3
17	SynPf 3
18	Trb 3
19	Trp 4
20	vibe 541
21	Xylophon
22	SStrngA4
23	SStrngB4
24	STRNG 3
25	STRNG 4
26	Syn 3
27	SynSt 3
28	AcBass
29	BassSAWH
30	BassSAWL
31	BassSINH
32	BassSINL
33	SyBass2H
34	SyBass2L

GM Keyboard Voice List

No.	Category	Display	Layer
1	Piano	GrandPno	1
2		BritePno	1
3		E.Grand	2
4		HnkyTonk	2
5		E.Piano1	2
6		E.Piano2	2
7		Harpsi.	1
8		Clavi.	1
9	Chromatic Percussion	Celesta	1
10		Glocken	1
11		MusicBox	2
12		Vibes	1
13		Marimba	1
14		Xylophon	1
15		TubulBel	1
16		Dulcimer	2
17	Organ	DrawOrgn	1
18		PercOrgn	1
19		RockOrgn	2
20		ChrchOrg	2
21		ReedOrgn	1
22		Acordion	2
23		Harmnica	1
24		TangoAcd	2
25	Guitar	NylonGtr	1
26		SteelGtr	1
27		Jazz Gtr	1
28		CleanGtr	2
29		Mute.Gtr	1
30		Ovrdrive	1
31		Dist.Gtr	1
32		GtrHarmo	1
33	Bass	Aco.Bass	1
34		FngrBass	1
35		PickBass	1
36		Fretless	1
37		SlapBas1	1
38		SlapBas2	1
39		SynBass1	1
40		SynBass2	1
41	Strings	Violin	1
42		Viola	1
43		Cello	1
44		ContraBs	1
45		Trem.Str	2
46		Pizz.Str	2
47		Harp	1
48		Timpani	1
49	Ensemble	Strings1	1
50		Strings2	1
51		Syn.Str1	2
52		Syn.Str2	2
53		ChoirAah	2
54		VoiceOoh	1
55		SynVoice	1
56		Orch.Hit	1
57	Brass	Trumpet	1
58		Trombone	1
59		Tuba	1
60		Mute.Trp	1
61		Fr.Horn	1
62		BrasSect	1
63		SynBras1	2
64		SynBras2	2

No.	Category	Display	Layer
65	Reed	SprnoSax	1
66		Alto Sax	1
67		TenorSax	1
68		Bari.Sax	1
69		Oboe	1
70		Eng.Horn	1
71		Bassoon	1
72		Clarinet	1
73	Pipe	Piccolo	1
74		Flute	1
75		Recorder	1
76		PanFlute	1
77		Bottle	2
78		Shakhchi	1
79		Whistle	1
80		Ocarina	1
81	Synth Lead	SquareLd	2
82		Saw.Lead	2
83		CaliopLd	2
84		Chiff Ld	2
85		CharanLd	2
86		Voice Ld	2
87		Fifth Ld	2
88		Bass &Ld	2
89	Synth Pad	NewAgePd	2
90		Warm Pad	2
91		PolySyPd	2
92		ChoirPad	2
93		BowedPad	2
94		MetalPad	2
95		Halo Pad	2
96		SweepPad	2
97	Synth Effects	Rain	2
98		SoundTrk	2
99		Crystal	2
100		Atmosphr	2
101		Bright	2
102		Goblins	2
103		Echoes	2
104		SF	2
105	Ethnic	Sitar	1
106		Banjo	1
107		Shamisen	1
108		Koto	1
109		Kalimba	1
110		Bagpipe	2
111		Fiddle	1
112		Shanai	1
113	Percussive	TnklBell	2
114		Agogo	1
115		SteelDrm	2
116		WoodBlok	1
117		TaikoDrm	1
118		MelodTom	1
119		Syn.Drum	1
120		RevCymbl	1
121	Sound Effect	FretNoiz	1
122		BrthNoiz	1
123		Seashore	2
124		Tweet	2
125		Telphone	1
126		Helicptr	2
127		Applause	2
128		Gunshot	1

Effect Parameter List

System Reverb

HALL1, 2, ROOM1, 2, 3, STAGE1, 2, PLATE, WHITEROOM, TUNNEL, CANYON, BASEMENT

Parameter	Value
Time	0.3 – 30
Diffusion	0 – 10
InitDlay	0.1 – 99.3
RevDlay	0.1 – 99.3
HPF	thru, 22 – 8.0k
LPF	1k – 18k, thru
ErBalance	1 – 127
FBLevel	-63 – 63
Pan	L64 – C – R63
RevRetrn	0 – 127

System Chorus

CHORUS1, 2, 3, 4, CELESTE1, 2, 3, 4, FLANGER1, 2, 3

Parameter	Value
LFO	0.00Hz – 39.7Hz
Depth	0 – 127
FBLevel	-63 – +63
DlayOfst	0.0 – 50.0
Pan	L64 – C – R63
Cho→Rev	0 – 127
ChoRetrn	0 – 127

SYMPHONIC

Parameter	Value
LFO	0.00Hz – 39.7Hz
Depth	0 – 127
DlayOfst	0.0 – 50.0
Pan	L64 – C – R63
Cho→Rev	0 – 127
ChoRetrn	0 – 127

ENSEMBLE

Parameter	Value
Detune	-50 – +50
LchDlay	0.0 – 50.0
RchDlay	0.0 – 50.0
Pan	L64 – C – R63
Cho→Rev	0 – 127
ChoRetrn	0 – 127

PHASER

Parameter	Value
LFO	0.00Hz – 39.7Hz
Depth	0 – 127
FBLevel	-63 – +63
PhseOfst	0 – 127
Pan	L64 – C – R63
Cho→Rev	0 – 127
ChoRetrn	0 – 127

Insertion Effects

Parameters marked with a ● in the "Control" column can be control using the DTXTREME IIs' MIDI EG function and external MIDI controllers.

THRU

Parameter	Value
RevSend	0 – 127
ChoSend	0 – 127

HALL1, 2, ROOM1, 2, 3, STAGE1, 2, PLATE

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
Time	0.3 – 30	
Diffusion	0 – 10	
InitDlay	0.1 – 99.3	
LPF	1k – 18k, thru	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

DelayLCR

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
LchDlay	0.1 – 742.9	
RchDlay	0.1 – 742.9	
CchDlay	0.1 – 742.9	
FBDlay	0.1 – 742.9	
FBLevel	-63 – 63	
HiDamp	0.1 – 1.0	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

DelayLR

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
LchDlay	0.1 – 742.9	
RchDlay	0.1 – 742.9	
FBDlay1	0.1 – 742.9	
FBDlay2	0.1 – 742.9	
FBLevel	-63 – 63	
HiDamp	0.1 – 1.0	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

ECHO

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
LchDlay	0.1 – 371.4	
RchDlay	0.1 – 371.4	
L_FBLvl	-63 – 63	
R_FBLvl	-63 – 63	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

CrossDlay

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
L→R Dlay	0.1 – 371.4	
R→L Dlay	0.1 – 371.4	
FBLevel	-63 – 63	
Input	L, R, L&R	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

KARAOKE1, 2, 3

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
DlayTm	0 – 127	
FBLevel	-63 – 63	
HPF	thru, 22 – 8.0k	
LPF	1k – 18k, thru	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

CHORUS1, 2, 3, 4, CELESTE1, 2, 3, 4, FLANGER1, 2, 3

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
LFO	0.00Hz – 39.7Hz	
Depth	0 – 127	
FBLevel	-63 – +63	
DlayOfst	0.0 – 50.0	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

SYMPHONIC

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
LFO	0.00Hz – 39.7Hz	
Depth	0 – 127	
DlayOfst	0.0 – 50.0	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

ENSEMBLE

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	●
Detune	-50 – +50	
LchDlay	0.0 – 50.0	
RchDlay	0.0 – 50.0	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

ROTARY

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
LFO	0.00Hz – 39.7Hz	●
Depth	0 – 127	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

TREMOLO

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
LFO	0.00Hz – 39.7Hz	●
AMDepth	0 – 127	
PMDepth	0 – 127	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

AUTOPAN

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
LFO	0.00Hz – 39.7Hz	●
L/RDpth	0 – 127	
F/RDpth	0 – 127	
PanDir	L↔R, L→R, L←R, Lturn, Rturn, L/R	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

PHASER

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
LFO	0.00Hz – 39.7Hz	●
Depth	0 – 127	
PhseOfst	0 – 127	
FBLevel	-63 – 63	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

DISTORTION, OVERDRIVE

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
Drive	0 – 127	●
LPF	1.0k – 18k, thru	
OutLevel	0 – 127	
Edge	0 – 127	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND 1– 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

AMPSIM

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
Drive	0 – 127	●
Amp	0, 1, 2, 3	
LPF	1.0k – 18k, thru	
OutLevel	0 – 127	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

3BandEQ

Parameter	Value	Control
LoFreq	50 – 2.0k	
LoGain	-12 – +12	
MidFreq	100 – 10k	●
MidWidth	10 – 120	
MidGain	-12 – +12	
HiFreq	500 – 16k	
HiGain	-12 – +12	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

2BandEQ

Parameter	Value	Control
LoFreq	32 – 2.0k	
LoGain	-12 – +12	
HiFreq	500 – 16k	●
HiGain	-12 – +12	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

FILTER

Parameter	Value	Control
LPFFreq	thru, 22 – 18k, thru	●
LPFQ	0.0 – 12.0	
HPFFreq	thru, 22 – 18k, thru	
HPFQ	0.0 – 12.0	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

AUTOWAH

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
LFO	0.00Hz – 39.7Hz	
Depth	0 – 127	
CtofOfst	0 – 127	●
Q	0.0 – 12.0	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1–6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

TOUCHWAH1, 2

Parameter	Value	Control
Dry/Wet	D63>W – D<W63	
Sens	0 – 127	
CtofOfst	0 – 127	●
Q	0.0 – 12.0	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

ENHANCER

Parameter	Value	Control
HPF	500 – 16k	
Drive	0 – 127	
MixLevel	0 – 127	●
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

COMP

Parameter	Value	Control
Attack	1 – 40	
Release	10 – 680	
ThreshId	-48 – -6	●
Ratio	1.0 – 20.0	
OutLevel	0 – 127	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

NOISEGATE

Parameter	Value	Control
Attack	1 – 40	
Release	10 – 680	
ThreshId	-48 – -6	●
OutLevel	0 – 127	
Pan	L64 – C – R63	
Output	stereo, IND1&2, IND3&4, IND5&6, IND1 – 6	
RevSend	0 – 127	
ChoSend	0 – 127	
MIDI Ctl#	0 – 119	
MIDI Sens	-64 – 63	

Effect Parameter Description

LCD	Parameter name	Effect types in which the parameter exists	Explanation of parameter
AMDepth	AM Depth	TREMOLO	Depth of volume modulation
Amp	AMP Type	AMPSIM	Select the type of amp to be simulated
Attack	Attack	COMP	Time until the compressor effect begins to apply
		NOISEGATE	Time until the gate begins to open
CchDlay	Cch Delay	Delay LCR	Length of the center channel delay
ChoSend	Chorus Send	All types	Send level of insertion effect output to system chorus effect
ChoRetrn	Chorus Return	System Chorus only	Return level of system chorus effect
CtofOfst	Cutoff Frequency Offset	WAH type	Frequency offset value that will control the wah filter
Depth	LFO Depth	CHORUS type, FLANGER type, SYMPHONIC	Depth of delay modulation
		ROTARY	Depth of modulation caused by speaker rotation
		PHASER	Depth of phase modulation
		AUTOWAH	Depth at which the wah filter will be controlled
Detune	Detune	ENSEMBLE	Amount of pitch shift
DlayOfst	Delay Offset	CHORUS type, FLANGER type, SYMPHONIC	Offset value of delay modulation
DlayTm	Delay Time	KARAOKE type	Spacing of reflections for karaoke echo
Diffusion	Diffusion	REVERB type, PHASER	Control the spaciousness
Drive	Drive	DISTORTION type	Depth of distortion
		ENHANCER	Depth at which the excite is applied
Dry/Wet	Dry/Wet	All types	Balance between dry sound and effect sound
Edge	Edge	DISTORTION, OVERDRIVE	Curve of distortion characteristics (sharp (127) distorts suddenly, mild (0) distorts gradually)
F/RDpth	F/R Depth	AUTOPAN	Depth of front/back panning (valid when PAN Direction = Lturn, Rturn)
FBDlay	Feedback Delay	DelayLCR	Length of feedback delay
FBDlay1	Feedback Delay1	DelayLR	Length of feedback delay 1
FBDlay2	Feedback Delay2	DelayLR	Length of feedback delay 2
FBLevel	Feedback Level	System Reverb only	Feedback amount of initial delay
		Delay LCR, Delay LR, Cross Delay	Feedback amount
		KARAOKE type	Setting for repeated reflections
		CHORUS type, FLANGER type	Level at which delay output is again returned to the input (negative values invert the phase)
		PHASER	Level at which phaser output is again returned to the input (negative values insert the phase)
ErBalance	Er/Rev Balance	REVERB type	Level balance between the early reflections and the reverberation
HiDamp	High Damp	Delay LCR, Delay LR	Attenuation of the high frequency range (lower values will cause the high range to decay more rapidly)
HiFreq	High Frequency	3 BAND EQ, 2 BAND EQ	Center frequency for boosting or cutting higher frequencies
HiGain	High Gain	3 BAND EQ, 2 BAND EQ	Gain level for boosting or cutting higher frequencies
HPF	HPF Cutoff Frequency	REVERB type, KARAOKE type, ENHANCER	Frequency below which frequencies are cut off by high-pass filter
HPFFreq	HPF Cutoff Frequency	FILTER	Frequency below which frequencies are cut off by high-pass filter
HPRQ	HPF Q	FILTER	Q value for high-pass filter
InitDlay	Initial Delay	REVERB type	Delay time until the early reflections
Input	Input Select	Cross Delay	Input select
L/RDpth	L/R Depth	AUTOPAN	Depth of left/right panning
L→R Delay	L→R Delay	Cross Delay	Delay time from left (input) to right (output)
LchDlay	Lch Delay	Delay LCR, Delay LR, ECHO, ENSEMBLE	Length of left channel delay
L_FBLvl	Lch Feedback Level	ECHO	Amount of left channel feedback
LFO	LFO Frequency	CHORUS type, FLANGER type, SYMPHONIC	Frequency of delay modulation
		ROTARY	Frequency at which the speaker will rotate
		TREMOLO	Modulation frequency
		AUTOPAN	Autopan frequency
		PHASER	Phase modulation frequency
		AUTOWAH	Frequency at which wah filter will be controlled
LoFreq	Low Frequency	3 BAND EQ, 2 BAND EQ	Center frequency for boosting or cutting lower frequencies
LoGain	Low Gain	3 BAND EQ, 2 BAND EQ	Gain level for boosting or cutting lower frequencies
LPF	LPF Cutoff Frequency	REVERB type, KARAOKE type, DISTORTION type	Frequency above which frequencies are cut off by low-pass filter
LPFFreq	LPF Cutoff Frequency	FILTER	Frequency above which frequencies are cut off by low-pass filter
LPFQ	LPF Q	FILTER	Q value for low-pass filter
MidFreq	Mid Frequency	3 BAND EQ	Center frequency for boosting or cutting middle frequencies
MidGain	Mid Gain	3 BAND EQ	Gain level for boosting or cutting middle frequencies
MidWidth	Mid Width	3 BAND EQ	Bandwidth for boosting or cutting middle frequencies
MIDI Ctl#	MIDI Control Change Number	All types	Controller number used for real-time control of the effect
MIDI Sens	MIDI Control Sensitivity	All types	Sensitivity used for real-time control of the effect

LCD	Parameter name	Effect types in which the parameter exists	Explanation of parameter
MixLevel	Mix Level	ENHANCER	Level of the effect sound that is mixed into the dry sound
OutLevel	Output Level	DISTORTION type, COMP, NOISEGATE	Output level
Output	Output Select	All types	Output routing
Pan	Pan	All types	Pan of first unit
PanDir	Pan Direction	AUTOPAN	Autopan type
PhseOfst	Phase Shift Offset	PHASER	Offset value for phase modulation
PMDepth	PM Depth	TREMOLO	Depth of delay modulation
Q	Q	WAH type	Bandwidth for wah filter
R→Ldlay	R→L Delay	Cross Delay	Delay time from right (input) to left (output)
Ratio	Ratio	COMP	Compression ratio of the compressor
RchDlay	Rch Delay	Delay LCR, Delay LR, ECHO, ENSEMBLE	Length of right channel delay
R_FBLvl	Rch Feedback Level	ECHO	Amount of right channel feedback
Release	Release	COMP	Time until the sound is released from the compressor effect
		NOISEGATE	Time until the gate closes
RevDlay	Reverb Delay	System Reverb only	Delay time between the early reflections and the reverberation
RevSend	Reverb Send	All types	Send level of insertion effect output to system reverb effect
RevRetrn	Reverb Return	System Reverb only	Return level of system reverb effect
Sens	Sensitive	TOUCHWAH1, 2	Sensitivity range of wah filter for input level
Threshld	Threshold	COMP	Input level at which compression will begin
		NOISEGATE	Input level at which the gate will begin to open
Time	Reverb Time	REVERB type	Duration of reverb effect

Supplements

REVERB type	HALL1, 2, ROOM1, 2, 3, STAGE1, 2, PLATE
DELAY type	Delay LCR, Delay LR, ECHO, Cross Delay
KARAOKE type	KARAOKE1, 2, 3
CHORUS type	CHORUS1, 2, 3, 4, CELESTE1, 2, 3, 4
FLANGER type	FLANGER1, 2, 3
DISTORTION type	DISTORTION, OVERDRIVE, AMPSIM
WAH type	AUTOWAH, TOUCHWAH1, 2

YAMAHA [Drum Trigger Module] Date:01-May-2002
Model DTXT2S MIDI Implementation Chart Version : 1.0

Function ...		Transmitted	Recognized	Remarks
Basic	Default	1 - 16	1 - 16	memorized
Channel	Changed	1 - 16	1 - 16	
Mode	Default	×	3	
	Messages	×	3	
	Alterd	**********	×	
Note Number : True voice		0 - 127 0 - 127	0 - 127 0 - 127	
Velocity	Note ON	○ 9nH,v=1-127	○ v=1-127	
	Note Off	× 9nH,v=0	×	
After Touch	Key's	×	×	
	Ch's	×	×	
Pitch Bender		×	○	7 bit resolution
Control Change	0,4,7,10,32	○	○	
	1,6,11,64	×	○	
	71,72,73	×	○	
	74,84,91	×	○	
	93,100,101	×	○	
Prog Change : True #		○ 0 - 127 **********	○ 0 - 127	
System Exclusive		○	○	
System : Song Pos.		×	×	
: Song Sel.		×	○	
Common : Tune		×	×	
System : Clock		○	○	
Real Time : Commands		○	○	
Aux : All Sound Off		×	○	
: Reset All Cntrls		×	○	
: Local ON/OFF		○	○	
: All Notes OFF		×	○ (123-127)	
Mes- : Active Sense		○	○	
sages: Reset		×	×	

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO ○ : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO × : No

Strings, Guitar & Percussion Division, Yamaha Corporation
© 2003 Yamaha Corporation
WA32850
Printed in Taiwan