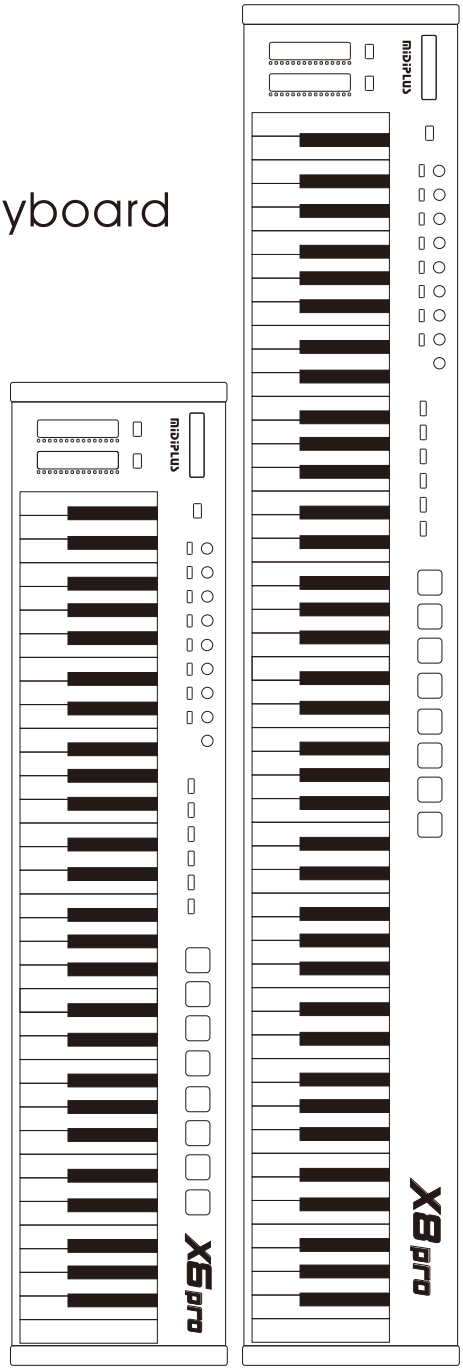
X pro

61 Keyboard/88 Keyboard

User Manual



www.midiplus.com

Catalog

1.Introduction

Thank you for purchasing MIDIPLUS X pro series MIDI keyboard which is not just a MIDI keyboard but is also a keyboard controller with built-in sound sources. X pro series MIDI keyboard has plenty of controls - pads , knobs , buttons and touch faders; 128 high quality ones; a dedicated percussion tone channel; numerous effectors like reverb , chorus , etc . You can connect X pro series MIDI keyboard with USB cable and enjoy music creation anytime . This user manual can help you understand the functions and operations of X pro series MIDI keyboard quickly . Please keep it safely for future references.

2.Safety

To prevent any damages to the unit or any harms to human, please be aware of the below safety advises.

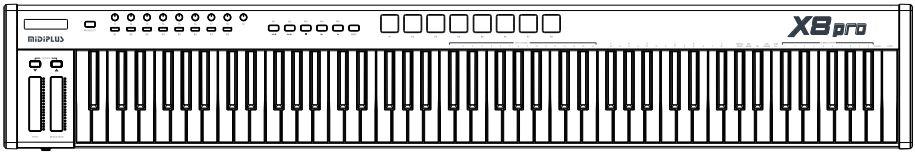
1. Avoid storing or operating the unit in humid environments, e.g. bathroom, swimming pool.
2. Avoid exposing the unit under the sun or high temperature environments, e.g. heat sink, electric heater.
3. Avoid operating the unit in thunderstorm.
4. Do not leave idle unit plugged into the power outlet.
5. Beware of metal fragments dropping into the unit which could short the circuit. Do not open the unit by yourself. Consult professionals when necessary.
6. Children only operate the unit under adult's guidance.
7. Avoid EMI, do not use the unit near to other electric devices like radio, speaker, television.
8. Do not use gasoline, alcohol and other solvent to clean the unit. Unplug the power and USB and use a piece water-soaked cloth instead.

3.Product Features

- X pro series includes X6 pro and X8 pro which have respectively 61 and 88 full size semi-weight velocity keys.
- Plug and play. USB powered. No external power supply needed.
- Comes with 128 most updated high quality GM tones. No external sound source needed.
- With touch-sensitive control technology for PITCH and MODULATION，provide new experience for you.
- With function editing buttons MIDI / SELECT and octave shifting button OCTAVE.
- 9 editable knob controllers (T1 - T10) for setting CC functions.
- 8 editable button controllers (B1 - B8) for setting tones and CC functions.
- 5 editable button controllers (M1 - M5) for setting MMC transport and CC functions.
- 8 editable velocity-sensitive drum pads (P1 - P8) for setting notes and CC functions.
- With USB (for power and data transmission), sustain pedal, expression pedal, MIDI In, MIDI Out, balanced output L/R, stereo headphone jack (front panel).

4.Operations

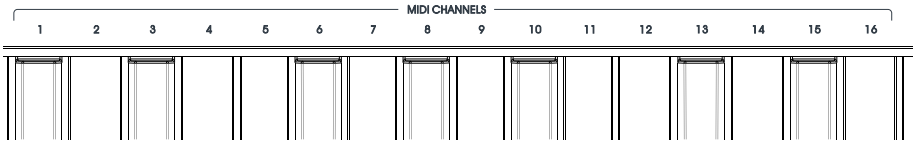
4.1.MIDI / SELECT



MIDI / SELECT button: Switching between performance mode and sub-function edit mode.
When switched on, the keyboard is in performing mode and the piano keys play notes. Press the MIDI / SELECT button, the keyboard will switch to edit mode (indicator LED glows and LCD display shows "EDIT"). Each piano key functions as what is labelled above it. Select the function you want and press ENTER. Press MIDI / SELECT again and switch back to performance mode.Piano note shifting is not labelled but can be done by using numeric keypad under sub-function edit mode. See Example 3 for detailed instructions.

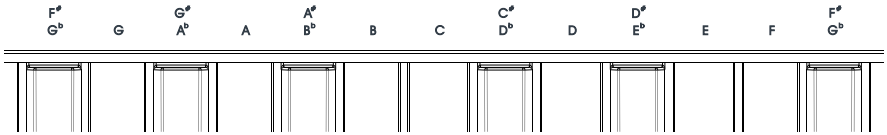
4.2.Sub-functions under edit mode

4.2.1.Selecting MIDI channels (1 - 16)



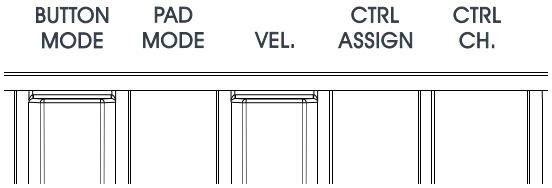
For selecting keyboard channels.(Channel 10 for percussion instruments)

4.2.2.Selecting transpose



For selecting piano key transpose.

4.2.3.Other sub-functions



(1) BUTTON mode: Switching functions of button controllers (B1 - B8) between express tone mode (TONE) and CC function send mode.

(2) PAD mode: Switching functions of drum pads between note and CC function send mode.

(3) VEL: Key velocity-sensitive curve (1 - 8)

1-2: Light dynamics 3-4: Normal dynamics

5-6: Heavy dynamics 7-8: Settled dynamics

(4) CTRL ASSIGN: Assigning functions to controllers (TONE: 0 - 127) and CC functions (0-127).

(5) CTRL CHL: Controller channel setting (0 - 16)

N.B. See Appendix 2: List of GM tones for express tone (TONE) details;

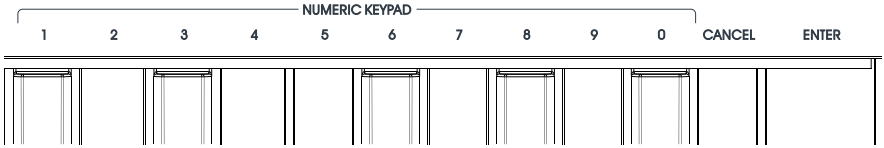
See Appendix 3: List of drum pad tones details;

See Appendix 4: List of drum pad notes details;

See Appendix 5: List of CC controllers for CC function details;

When CTRL CHL is set as 0, the controller is set as full channel and shifts automatically with piano key channel.

4.2.4.NUMERIC KEYPAD, CANCEL and ENTER:



For numeric input cancel and enter when setting "Other piano key sub-functions".

4.3.Setting functions of knobs and buttons

4.3.1.Knob controllers (T1 - T0)

(1) 9 270 degree potentiometer knobs with backlight

(2) User can customise CC functionson the knobs

(3) Turn left to decrease value while turn right to increase value.

Default functions:

T1-T5 :User-defined function

T6: Pan

T7: Expression control

T8: Reverb

T0: Volume

4.3.2.Button controllers (B1 - B8)

(1) 8 bi-colour LED buttons.can be set to shortcut tone function or CC function. When the button set to express tone function,the background LED colour is blue,when set to CC function,the background LED colour is white.

(2) For customising express tones and CC functions

Default tones:

B1: 0 Cello

B2: 1 Bright acoustic piano

B3: 25 Folk guitar

B4: 32 Soundtrack bass

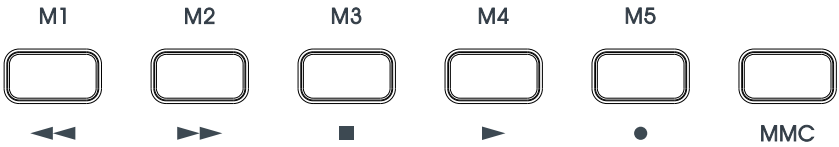
B5: 40 violin

B6: 65 Tenor Saxophone

B7: 71 Clarinet

B8: 45 Multiple strings

4.3.3.Button controllers (M1 - M5)

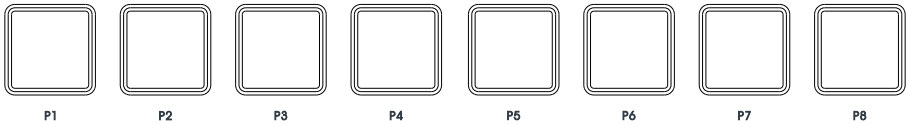


(1) 5 bi-colour LED On/Off buttons.,can be set to MCC transport or CC function .

(2) MMC buttons using to switch MMC transport and CC customised functions. When MMC button is pressed, white light glows and MMC transport function is sent. M1 - M5 button send transport message and the light of them glow blue. When MMC button is pressed again, white light turns off and CC function is sent. M1 - M5 glow white.

(3) MMC playback: rewind, forward, stop, play, record.

4.3.4.Drum pad controllers (P1 - P8)



(1) 8 bi-colour LED velocity sensitive drum pads,can be set to notes（Note）or CC function.

(2) When the pad set to notes (Note),light grows blue.When the pad set ot CC function,light grows white.

Default notes:

P1:C+2

P2:C#+2

P3:D+2

P4:D#+2

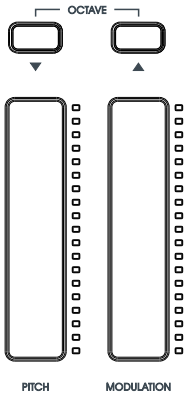
P5:E+2

P6:F+2

P7:F#+2

P8:G+2

4.4.Jog wheel and OCTAVE Adjusting



4.4.1.PITCH jog wheel

Use the PITCH jog wheel to make pitch sound effect: Slide up or down to adjust the pitch. Release and reset to default.

4.4.2MODULATION jog wheel

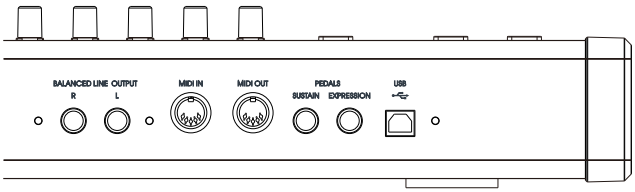
Use the MODULATION jog wheel to make trill effect: Slide up or down to adjust the level of trill.

4.4.3.OCTAVE

Amplitude:（X6 pro: -2～+2，X8 pro: -1～+1）;

Press OCTAVE to adjust. Press both buttons and reset to default.

5.Back Panel Interface



5.1.USB

Connecting X pro series MIDI keyboard to computer and other devices for data transmission and power supply.

5.2.PEDALS (SUSTAIN, EXPRESSION)

Connecting from here to sustain pedals or expression pedals.

5.3.Standard MIDI IN, MIDI OUT

MIDI IN: Input MIDI data from other devices
MIDI OUT: Output MIDI data to other devices

5.4.BALANCED LINE OUTPUT (R/L)

Output to audio equipment

5.5.HEADPHONE (STEREO)

6.Operation Examples

Example 1: Changing channel (e.g. channel 10)

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").
(2) Press the piano key below MIDI CHANNEL label 10. Display shows "10" (LED turn off and the selection is effective now).

Example 2: Changing tune (e.g. A)

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Press the piano key labelled as "A". Display shows "Transpose-3 (A-1)" (LED turn off and the selection is effective now).

Example 3: Changing tone

(1) Press "MIDI / SELECT" button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Use NUMERIC KEYPAD to input "25" and press ENTER to confirm. Display shows the name and number of the new tone. Change succeeds.

(3) Press again MIDI / SELECT to go back to performance mode. Display shows tone number and channel number (LED turns off. Piano keys are now changed to tone number 25 and it is memorised).

Example 4: Setting key velocity sensitive curve as "1"

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Press the piano key labelled VEL. Display shows the current key velocity sensitivity curve value. The default factory value is "4".

(3) Use " NUMERIC KEYPAD "to input "1" and press ENTER to confirm. Display shows the new value of key velocity sensitive curve. Change succeeds.

(4) Press again MIDI / SELECT to go back to performance mode. Display shows tone number and channel number (LED turns off. Key velocity sensitive curve is now changed to 1 and it is memorised).

Example 5: Assigning knob controller T0 CC91 for controlling reverb

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Press the piano key labelled CTRL ASSIGN,switch knob "T0",display shows the CC number of the current active controller.

(3) Press the piano key labelled with number under the "NUMERIC KEYPAD", input "91" and press ENTER to confirm. Display shows the CC value. Change succeeds.

(4) Use NUMERIC KEYPAD to input "91" and press ENTER to confirm. Display shows the CC value. Change succeeds.

(5) Press again MIDI / SELECT to go back to performance mode. Display shows tone number and channel number (LED turns off. Knob T0 is now assigned CC91 for controlling reverb and it is memorised).

Note: Assigning the other knobs in the same way.

Example 6: Assigning knob controller for controlling channel 10

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Press the piano key labelled CTRL CHL,switch "T0",display shows the channel number of the current active controller.

(3) Press piano key labelled NUMERIC KEYPAD,input "10" and press ENTER to confirm. Display shows the new channel number. Change succeeds.

(4) Press again MIDI / SELECT to go back to performance mode. Display shows tone number and channel number (LED turns off. Knob T0 is now assigned for controlling channel 10 and it is memorised).

Note: Assigning the other knobs in the same way.

Example 7: Assigning button B1 as express tone (TONE) / CC function

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Press the piano key labelled BUTTON MODE to switch express tone / CC function customising mode. MIDI / SELECT button LED turns off when switch succeeds.
Note: Under CC function customising mode, button can only edit CC functions. Under express tone mode, button can only edit express tone (TONE).

(3) Press again MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(4) Press the piano key labelled CTRL ASSIGN. Display shows the current CC number.

(5) Press the piano key labelled NUMERIC KEYPAD ,input the desired express tone (TONE) / CC function number and press ENTER to confirm. Display shows the new express tone (TONE) / CC number. Change succeeds.

(6) Use NUMERIC KEYPAD to input the desired express tone (TONE) / CC function number and press ENTER to confirm. Display shows the new express tone (TONE) / CC number. Change succeeds.
Note: Assigning the other buttons in the same way.

Example 8: Assigning button controller M1 for sending CC number "51"

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Press the piano key labelled CTRL ASSIGN, then press M1, Display shows the CC number of
the current active controller.

(3) Press the piano key labelled NUMERIC KEYPAD ,input "51" and press ENTER to confirm. Display shows the new CC number. Change succeeds.

(4) Use NUMERIC KEYPAD to input "51" and press ENTER to confirm. Display shows the new CC number. Change succeeds.

Note: Assigning the other buttons in the same way.

Example 9: Assigning drum pad controller P1 as express tone/ CC function

(1) Press MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(2) Press the piano key labelled PAD MODE to switch express tone / CC function customising mode. MIDI / SELECT button LED turns off when switch succeeds.

Note: Under CC function customising mode, button can only edit CC functions. Under express tone mode, button can only edit express tone (TONE)..

(3) Press again MIDI / SELECT button and get into sub-function edit mode (LED glows and display shows "EDIT").

(4) Press the piano key labelled CTRL ASSIGN. Display shows the current CC number.

(5) Press the piano key labelled NUMERIC KEYPAD , input the desired express tone (TONE) / CC function number and press ENTER to confirm. Display shows the new express tone (TONE) / CC number. Change succeeds.

(6) Use NUMERIC KEYPAD to input the desired express tone (TONE) / CC function number and press ENTER to confirm. Display shows the new express tone (TONE) / CC number. Change succeeds.

Note: Assigning the other buttons in the same way.

N.B.:

1. New setting is saved 10 seconds after it's been completed.
2. Saved setting will be kept even the unit is powered off.

7. Factory reset

1. Power off and unplug the keyboard.
2. Press and hold B1 and B2 at the same time.
3. Connect a USB cable to the keyboard and the display shows "RESET".
   Release the buttons after 3 seconds and the keyboard is now reset.

8. Appendices

Appendix 1: Specifications

Product Specifications	
Product names	X6 pro / X8 pro
Piano Key	61/88 velocity sensitive keys
Display	16*2 LCD Display
Tone	128 GM tone
Buttons	MIDI/SELECT, OCTAVE, Buttons (B1 - B8), Drum pads (P1 - P8) Editable playback (M1 - M5, MMC)
Knobs	T1 - T0 customisable knob controllers
Sockets	USB, PEDALS (SUSTAIN, EXPRESSION), MIDI OUT, MIDI IN, BALANCED LINE OUTPUT(R/L), HEADPHONE (STEREO)
Polyphony	Supports up to 64 polyphonies
Accessories	USB cable, User manual
Weights	X6 pro: 5.5kg X8 pro: 7.5kg
Dimensions	X6 pro: 978*215*74 (mm) X8 pro: 1356*215*74 (mm)

Appendix 2: List of GM Tones

Piano	28 Electric Guitar (muted)
0 Acoustic Grand Piano	29 Overdriven Guitar
1 Bright Acoustic Piano	30 Distortion Guitar
2 Electric Grand Piano	31 Guitar Harmonics
3 Honky-tonk Piano	**Bass**
4 Rhodes Piano	32 Acoustic Bass
5 Chorused Piano	33 Electric Bass(finger)
6 Harpsichord	34 Electric Bass (pick)
7 Clavichord	35 Fretless Bass
Color percussion	36 Slap Bass 1
8 Celesta	37 Slap Bass 2
9 Glockenspiel	38 Synth Bass 1
10 Music box	39 Synth Bass 2
11 Vibraphone	**String**
12 Marimba	40 Violin
13 Xylophone	41 Viola
14 Tubular Bells	42 Cello
15 Dulcimer	43 Contrabass
Organ	44 Tremolo Strings
16 Hammond Organ	45 Pizzicato Strings
17 Percussive Organ	46 Orchestral Harp
18 Rock Organ	47 Timpani
19 Church Organ	**Ensemble/Chorus**
20 Reed Organ	48 String Ensemble 1
21 Accordian	49 String Ensemble 2
22 Harmonica	50 Synth Strings 1
23 Tango Accordian	51 Synth Strings 2
Guitar	52 Choir Aahs
24 Acoustic Guitar (nylon)	53 Voice Oohs
25 Acoustic Guitar (steel)	54 Synth Voice
26 Electric Guitar (jazz)	55 Orchestra Hit
27 Electric Guitar (clean)	

Brass	91 Pad 4 (choir)
56 Trumpet	92 Pad 5 (bowed)
57 Trombone	93 Pad 6 (metallic)
58 Tuba	94 Pad 7 (halo)
59 Muted Trumpet	95 Pad 8 (sweep)
60 French Horn	96 FX 1 (rain)
61 Brass Section	97 FX 2 (soundtrack)
62 Synth Brass 1	98 FX 3 (crystal)
63 Synth Brass 2	99 FX 4 (atmosphere)
Clarinet	100 FX 5 (brightness)
64 Soprano Sax	101 FX 6 (goblins)
65 Alto Sax	102 FX 7 (echoes)
66 Tenor Sax	103 FX 8 (sci-fi)
67 Baritone Sax	**Folk instrument**
68 Oboe	104 Sitar
69 English Horn	105 Banjo
70 Bassoon	106 Shamisen
71 Clarinet	107 Koto
Flute	108 Kalimba
72 Piccolo	109 Bagpipe
73 Flute	110 Fiddle
74 Recorder	111 Shanai
75 Pan Flute	**Percussion instruments**
76 Bottle Blow	112 Tinkle Bell
77 Shakuhachi	113 Agogo
78 Whistle	114 Steel Drums
79 Ocarina	115 Woodblock
Synthesis Of Tonic	116 Taiko Drum
80 Lead 1 (square)	117 Melodic Tom
81 Lead 2 (sawtooth)	118 Synth Drum
82 Lead 3 (caliope lead)	119 Reverse Cymbal
83 Lead 4 (chiff lead)	**Sound Effects**
84 Lead 5 (charang)	120 Guitar Fret Noise
85 Lead 6 (voice)	121 Breath Noise
86 Lead 7 (fifths)	122 Seashore
87 Lead 8 (bass+lead)	123 Bird Tweet
Synthesis Of Timbre	124 Telephone Ring
88 Pad 1 (new age)	125 Helicopter
89 Pad 2 (warm)	126 Applause
90 Pad 3 (polysynth)	127 Gunshot

Appendix 3:List of Drum Pad Tones

1 D#1 High Q	8 A#1 Metronome Bell
2 E1 Slap	9 B1 Acoustic Bass Drum
3 F1 Scratch Push	10 C2 Bass Drum 1
4 F#1 Scratch Pull	11 C#2 Side Stick
5 G1 Sticks	12 D2 Acoustic Snare
6 G#1 Square Clinkl	13 D#2 Hand Clap
7 A1 Metronome Click	14 E2 Electric Snare
15 F2 Low Floor Tom	39 F4 High Timbale
16 F#2 Closed Hi Hat	40 F#4 Low Timbale
17 G2 High Floor Tom	41 G4 High Agogo
18 G#2 Pedal Hi Hat	42 G#4 Low Agogo
19 A2 Low Tom	43 A4 Cabasa
20 A#2 Open Hi Hat	44 A#4 Maracas
21 B2 Low-Mid Tom	45 B4 Short Whistle
22 C3 Hi-Mid Tom	46 C5 Long Whistle
23 C#3 Crash Cymbal	47 C#5 Short Guiro
24 D3 High Tom	48 D5 Long Guiro
25 D#3 Ride Cymbal 1	49 D#5 Claves
26 E3 Chinese Cymbal	50 E5 Hi Wood Block
27 F3 Ride Bell	51 F5 Low Wood Block
28 F#3 Tambouine	52 F#5 Mute Triangle
29 G3 Splash Cymbal	53 G5 Open Triangle
30 G#3 Cowbell	54 G#5 Mute Triang le
31 A3 Crash Cymbal 2	55 A5 Open Triang le
32 A#3 Vibraslap	56 A#5 Shaker
33 B3 Ride Cymbal 2	57 B5 Jingle Bell
34 C4 Hi Bongo	58 C6 Bell tree
35 C#4 Low Bongo	59 C#6 Castanets
36 D4 Mute Hi Conga	60 D6 Mute Surdo
37 D#4 Open Hi Conga	61 D#6 Open Surdo
38 E4 Low Conga	

Appendix 4:List of Drum Pad Notes

Serial Number	Syllable	Serial Number	Syllable	Serial Number	Syllable	Serial Number	Syllable
0	C-1	32	G#+1	64	E+4	96	C+7
1	C#-1	33	A+1	65	F+4	97	C#+7
2	D-1	34	A#+1	66	F#+4	98	D+7
3	D#-1	35	B+1	67	G+4	99	D#+7
4	E-1	36	C+2	68	G#+4	100	E+7
5	F-1	37	C#+2	69	A+4	101	F+7
6	F#-1	38	D+2	70	A#+4	102	F#+7
7	G-1	39	D#+2	71	B+4	103	G+7
8	G#-1	40	E+2	72	C+5	104	G#+7
9	A-1	41	F+2	73	C#+5	105	A+7
10	A#-1	42	F#+2	74	D+5	106	A#+7
11	B-1	43	G+2	75	D#+5	107	B+7
12	C0	44	G#+2	76	E+5	108	C+8
13	C#0	45	A+2	77	F+5	109	C#+8
14	D0	46	A#+2	78	F#+5	110	D+8
15	D#0	47	B+2	79	G+5	111	D#+8
16	E0	48	C+3	80	G#+5	112	E+8
17	F0	49	C#+3	81	A+5	113	F+8
18	F#0	50	D+3	82	A#+5	114	F#+8
19	G0	51	D#+3	83	B+5	115	G+8
20	G#0	52	E+3	84	C+6	116	G#+8
21	A0	53	F+3	85	C#+6	117	A+8
22	A#0	54	F#+3	86	D+6	118	A#+8
23	B0	55	G+3	87	D#+6	119	B+8
24	C+1	56	G#+3	88	E+6	120	C+9
25	C#+1	57	A+3	89	F+6	121	C#+9
26	D+1	58	A#+3	90	F#+6	122	D+9
27	D#+1	59	B+3	91	G+6	123	D#+9
28	E+1	60	C+4	92	G#+6	124	E+9
29	F+1	61	C#+4	93	A+6	125	F+9
30	F#+1	62	D+4	94	A#+6	126	F#+9
31	G+1	63	D#+4	95	B+6	127	G+9

Appendix 5: List of CC Controllers

0	Bank Select	1	Modulation Wheel or Lever	2	Breath Controller
3	Controller Change #3	4	Foot Controller	5	Portamento Time
6	Data Entry MSB	7	Channel Volume(formerly Main Volum	8	Balance
9	Undefined	10	Pan	11	Expression Controller
12	Effect Control 1	13	Effect Control 2	14	Controller Change #14
15	Controller Change	16	General Purpose Controller 1	17	General Purpose Controller
18	General Purpose Controller 3	19	General Purpose Controller 4	20	Controller Change #20～#31
21-32	LSB for Control 0 (Bank Select)	33	LSB for Control 1 (Modulation Wheel or Lever)	34	LSB for Control 2 (Breath Controller)
35	LSB for Control 3 (Undefined)	36	LSB for Control 4 (Foot Controller)	37	LSB for Control 5 (Portamento Time)
38	LSB for Control 6 (Data Entry)	39	LSB for Control 7 (Channel Volume, formerly Main Volume)	40	LSB for Control 8 (Balance)
41	LSB for Control 9 (Undefined)	42	LSB for Control 10 (Pan)	43	LSB for Control 11 (Expression Controller)
44	LSB for Control 12 (Effect control 1)	45	LSB for Control 13 (Effect control 2)	46	LSB for Control 14 (Undefined)
47	LSB for Control 15 (Undefined)	48	LSB for Control 16 (General Purpose Controller 1)	49	LSB for Control 17 (General Purpose Controller 2)
50	LSB for Control 18 (General Purpose Controller 3)	51	LSB for Control 19 (General Purpose Controller 4)	52	Controller Change #52～#63
53-64	Damper Pedal on/off (Sustain)	65	Portamento On/Off	66	Sostenuto On/Off
67	Soft Pedal On/Off	68	Legato Footswitch	69	Hold 2
70	Sound Controller 1 (default Sound Variation)	71	Sound Controller 2 (default Timbre/Harmonic Intens.))	72	Sound Controller 3 (default Release Time)
73	Sound Controller 4 (default Attack Time)	74	Sound Controller 5 (default Brightness)	75	Sound Controller 6 (default Decay Time - see MMA RP-021)
76	Sound Controller 7 (default Vibrato Rate - see MMA RP-021)	77	Sound Controller 8 (default Vibrato Depth - see MMA RP-021)	78	Sound Controller 9 (default Vibrato Delay - see MMA RP-021)
79	Sound Controller 10 (default undefined - see MMA RP-021)	80	General Purpose Controller 5	81	General Purpose Controller 6
82	General Purpose Controller 7	83	General Purpose Controller 8	84	Portamento Control
85	Controller Change #85	86	Controller Change #86	87	Controller Change #87
88	High Resolution Velocity Prefix	89	Controller Change #89	90	Controller Change #90
91	Effects 1 Depth (default Reverb Send Level - see MMA RP-023) (formerly External Effects Depth)	92	Effects 2 Depth (formerly Tremolo Depth)	93	Effects 3 Depth (default Chorus Send Level - see MMA RP-023) (formerly Chorus Depth)
94	Effects 4 Depth (formerly Celeste [Detune] Depth)	95	Effects 5 Depth (formerly Phaser Depth)	96	Data Increment (Data Entry +1) (see MMA RP-018)
97	Data Decrement (Data Entry -1) (see MMA RP-018)	98	Non-Registered Parameter Number (NRPN) - LSB	99	Non-Registered Parameter Number (NRPN) - MSB
100	Registered Parameter Number (RPN) - LSB	101	Registered Parameter Number (RPN) - MSB	102	Controller Change #102～#119
103-120	[Channel Mode Message] All Sound Off	121	[Channel Mode Message] Reset All Controllers (See MMA RP-015)	122	[Channel Mode Message] Local Control On/Off
123	[Channel Mode Message] All Notes Off	124	[Channel Mode Message] Omni Mode Off (+ all notes off)	125	[Channel Mode Message] Omni Mode On (+ all notes off)
126	[Channel Mode Message] Mono Mode On (+ poly off, + all notes off)	127	[Channel Mode Message] Poly Mode On (+ mono off, + all notes off)		

目錄

1. 前言

感謝你購買MIDIPLUS X pro系列MIDI鍵盤。它不單純是MIDI鍵盤，還是一款自帶音源的鍵盤控制器。它擁有豐富控制部件——PAD、旋鈕、按鍵和触摸條，擁有128高品質音色和一個獨立打擊樂器音色通道，同時有非常豐富的效果器，比如混響，合唱等等，大大的增加了鍵盤的操控性。你可以通過USB線連接X pro系列MIDI鍵盤，隨時享受音樂創作的樂趣。
本說明書可以幫助您快速了解X pro系列MIDI鍵盤的功能和操作方法。請妥善保存，以便查閱。

2. 安全事項:

請注意以下安全事項， 以免損壞設備或者造成人身傷害。

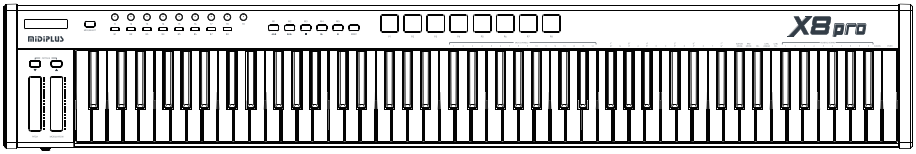
1. 避免在潮濕的環境放置或操作本設備， 如浴室， 游泳池等。
2. 避免在高溫或太陽直射的環境放置本設備， 如散熱器， 暖氣機附近。
3. 避免在雷雨天氣使用本設備， 以防雷擊。
4. 若長時間不使用該設備， 請斷開外部電源連接。
5. 避免小金屬塊落入設備， 從而導致內部電路短路。
6. 請勿自行打開設備內部， 如果需要請諮詢相關專業人士。
7. 兒童需在成人的指引下使用。
8. 避免在收音機，音箱，電視機及其他設備附近使用本設備，以免引起電磁干擾。
9. 不要使用汽油、酒精以及其它的溶解性溶劑清洗設備， 以免造成設備損傷。
   應用稍微濕潤的布擦洗設備； 擦洗時， 請拔掉外部電源和USB連接線， 避免造成電擊。

3. 產品特色

- X pro系列具有X6 pro、X8 pro 兩個型號，分別擁有61和88個全尺寸半配重力度琴鍵。
- 即插即用，USB供電，無需連接外部電源即可彈奏。
- 自帶128個最新的高品質GM音色，無需連接音源設備。
- 配有功能編輯按鍵MIDI/SELECT和八度切換鍵OCTAVE。
- 捨棄傳統調音輪，採用觸摸感應控制技術實現PITCH和MODULATION的觸控調節新體驗。
- 配有功能編輯按鍵MIDI/SELECT和八度切換按鍵OCTAVE。
- 9個可編輯旋鈕控制器(T1-TO)，用於配置CC功能。
- 8個可編輯按鍵控制器(B1-88)，用於配置音色快捷(TONE)或CC功能。
- 5個可編輯按鍵控制器(M1-M5)，用於配置MMC走帶功能或CC功能。
- 8個帶力度感應鼓墊(P1-P8)，用於配置音符(Note)訊息功能或CC功能。
- 擁有USB接口(供電及訊息傳輸)、延音踏板、表情踏板、MIDI IN、MIDI OUT、平衡輸
- 出L或R、立體聲耳機接口(前面板)。

4. 操作介绍

4.1. MIDI/SELECT按键



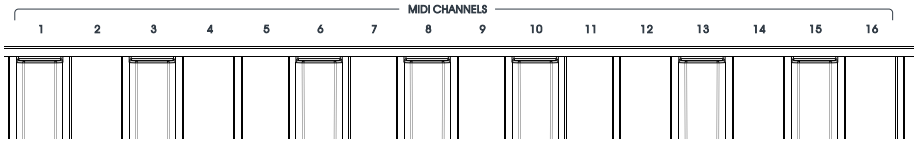
MIDI/SELECT按鍵:演奏模式與副功能編輯模式切換按鍵。

開機時琴鍵默認處於演奏模式，按下琴鍵發送Note信息。按下MIDI/SELECT按鍵，琴鍵進入副功能編輯模式(指示燈點亮，顯示螢幕顯示"EDIT")，每個琴鍵上方對應相應的標註功能。選擇你所需要的功能，按下"ENTER"確認，再次按下MIDI/SELECT按鍵完成編輯，琴鍵返回到演奏模式。

琴鍵音色切換沒有對應標註，可以在副功能編輯模式下直接使"NUMERIC KEYPAD"進行編輯切換，具體操作請查看本說明書"操作舉例三"。

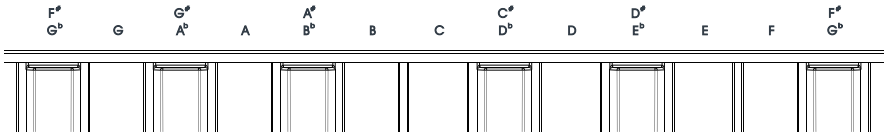
4.2. 編輯模式下的副功能

4.2.1. MIDI CHANNELS (1~16) 琴鍵通道選擇



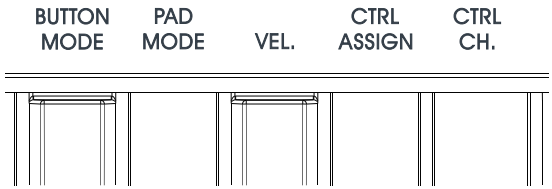
用於琴鍵通道的選擇。（ 默認通道10為打擊樂器通道）

4.2.2. 移調選擇



用於移動琴鍵的調性。

4.2.3. 其它琴鍵副功能



(1) BUTTON MODE：按鍵控制器(B1~B8)的功能切換，用於切換快捷音色模式(TONE)/CC功能的發送模式。

(2) PAD MODE：鼓墊控制器的功能切換，用於切換成音符(Note)信息/CC功能的發送模式。

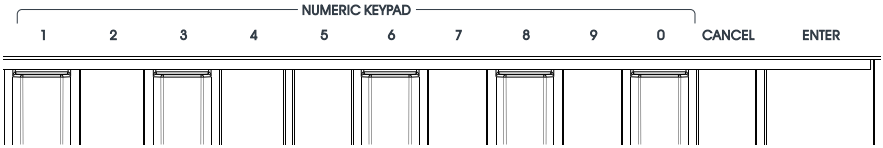
(3) VEL：琴鍵力度感應曲線切換(調整範圍:1-8)。
1-2:輕力度 3-4:正常力度 5-6:重力度 7-8:固定力度

(4) CTRL ASSIGN；控制器功能配置。(CC調整範圍：0-127；音色調整範圍：0-127)。

(5) CTRL CHL.：控制器通道選擇（調整範圍:0-16）。

注：快捷音色（TONE）詳情請查看《附表2：GM音色一覽表》
鼓墊音色詳情請查看《附件3：鼓墊音色一覽表》
鼓墊音符詳情請查看《附表4：鼓墊音符一覽表》
CC功能詳情請查看《附表5： CC控制器一覽表》
CTRL CHL.（控制通道）選擇時，該控制器配置為全局通道，控制器的通道將自動跟隨琴鍵通道。

4.2.4. NUMERIC KEYPAD、CANCEL和ENTER



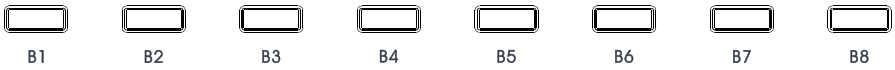
用於配置“其它琴鍵副功能”時用的數字輸入、清除和確認。

4.3. 旋鈕和按鍵控制器的配置及功能選擇

4.3.1. 旋鈕控制器 (T1~T0)

（1）9個獨立270度帶背光燈的電位器旋鈕。
（2）用戶可自定義CC功能。
（3）向左減益，向右增益。
旋鈕默認功能：
T1-T5旋鈕：自定義功能
T6旋鈕：Pan（聲像）
T7旋鈕：Expression Controller（表情控制）
T8旋鈕：Reverb（混響）
T0旋鈕：Volume（音量）

4.3.2. 按鍵控制器(B1~B8)



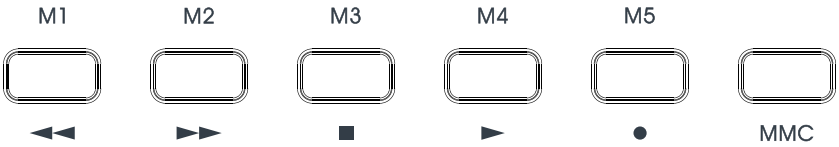
(1) 8個帶雙色燈按鍵，可配置成快捷音色功能或CC功能。

(2) 當按鍵配置成快捷音色功能時，背景燈為藍色；當按鍵配置成CC功能時，背景燈為白色。

按鍵默認音色：

B1：0大鋼琴
B2：1明亮的鋼琴
B3：25民謠吉他
B4：32原聲貝斯
B5：40小提琴
B6：65次中音薩克斯
B7：71單簧管
B8：45弦樂組

4.3.3. 按鍵控制器(M1~M5)

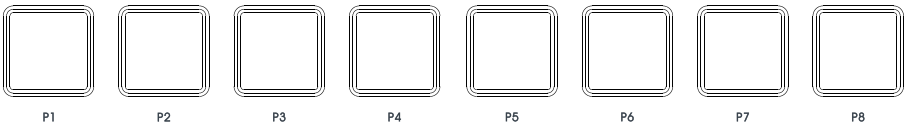


(1) 5個帶雙色指示燈獨立控制開關按鍵，可配置成MMC走帶功能或CC功能。

(2) MMC按鍵用於切換MMC走帶功能或CC功能。
按下MMC按鍵，白燈亮起，(M1~M5)按鍵發送MMC走帶信息。
(M1~M5)按鍵背景燈為藍色。
按下MMC按鍵，白燈熄滅，(M1-M5)發送CC功能信息。
(M1~M5)按鍵背景燈為白色。

(3) MMC走帶信息：後退、前進、停止、播放、錄音。

4.3.4. 鼓墊控制器（P1~P8）



（1）8個帶雙色燈力度感應鼓墊，可配置成音符訊息(Note)或CC功能

（2）當鼓墊配置成音符訊息時，背景燈為藍色；當鼓墊配置成CC功能時，背景燈為白色。

按鍵默認Note訊息：

P1: C+2 、

P2: C#+2 、

P3: D+2 、

P4: D#+2

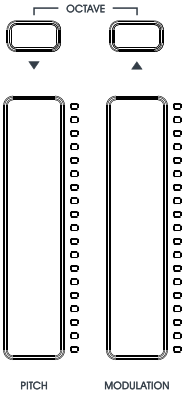
P5: E+2 、

P6: F+2 、

P7: F#+2 、

P8: G+2

4.4. 滑輪和八度調節



4.4.1. PITCH滑輪

調製彎音效果：通過觸摸向上滑動，音高升高；向下滑動，音高下降；
鬆開自動還原到默認值。

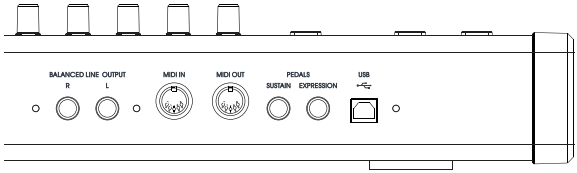
4.4.2. MODULATION滑輪

調製顫音效果：通過觸摸向上滑動，顫音增加：向下滑動，顫音減小。

4.4.3. 八度調節

幅度為：(X6 pro: -2~+2， X8 pro: -1~+1)；通過按"OCTAVE"按鍵直接調節，
兩個按鍵同時按下時恢復默認八度。

5. 後面板接口簡介：



5.1 USB接口：

X pro系列MIDI鍵盤與電腦和其它設備連接，用於訊息傳輸及供電。

5.2 PEDALS (SUSTAIN 、EXPRESSION)踏板接口：

根據需要，接入延音踏板和表情踏板。

5.3 標準的MIDI IN、MIDI OUT接口：

MIDI IN：接收其它設備輸入的MIDI信息；

MIDI OUT：將MIDI信息輸出給其它設備。

5.4 BALANCED LINE OUTPUT(R、L)平衡輸出左右聲道接口：

用於連接音響等輸出設備。

5.5 HEADPHONE(STEREO)立體聲耳機接口：

6. 操作舉例：

操作舉例一： 切換通道（ 例如： 選擇通道10）。

(1) 按下MIDI/SELECT按鍵， 進入副功能編輯模式。
（ 指示燈點亮， 顯示螢幕顯示“EDIT”）

(2) 按下標註在MIDI CHANNELS下“10”的琴鍵， 顯示螢幕顯示所選琴鍵通道號“10”。
（指示燈熄滅， 此時所選琴鍵通道生效）

操作舉例二： 移調（ 例如： 變換成A調） 。

(1) 按下MIDI/SELECT按鍵， 進入副功能編輯模式。
（指示燈點亮， 顯示屏顯示“EDIT”）

(2) 按下標註“A”的琴鍵， 顯示螢幕顯示“Transpose-3(A-1）”。
（指示燈熄滅， 此時所選移調生效）

操作舉例三： 音色切換

(1) 按下MIDI/SELECT按鍵，進入副功能編輯模式。
（指示燈點亮，顯示螢幕顯示“EDIT”）

(2) 通過“NUMERIC KEYPAD”下方標註數字的琴鍵，輸入“25”，再按下“ENTER”
標註對應琴鍵進行確認，顯示螢幕顯示更換後音色名稱和序號。

(3) 再次按下“MIDI/SELECT”按鍵，返回演奏模式，顯示屏顯示音色編號和通道號。（指示燈熄滅，此時琴鍵音色改變成“25”號音色且被記憶）

操作舉例四：把琴鍵力度曲線配置到“1”。

(1) 按下“MIDI/SELECT”按鍵，進入副功能編輯模式。
(指示燈點亮，顯示螢幕顯示“EDIT”)

(2) 按下“VEL.”標註對應琴鍵，顯示螢幕顯示當前力度曲線編號，默認出廠設置下力度曲線編號為“4”。

(3) 通過右邊“NUMERIC KEYPAD”下方標註數字的琴鍵，輸入“1”，再按下“ENTER”標註對應琴鍵進行確認，顯示螢幕顯示更換後力度曲線。

(4) 再次按下“MIDI/SELECT”按鍵，返回演奏模式，顯示螢幕顯示音色編號和通道號。
(指示燈熄滅，此時琴鍵力度曲線改變成“1”且被記憶)。

操作舉例五：配置旋鈕控制器“T0”用於CC91(REVERB)混響效果控制

(1) 按下“MIDI/SELECT”按鍵，進入副功能編輯模式(指示燈點亮，顯示螢幕顯示“EDIT”)。

(2) 按下“CTRL ASSIGN”標註對應琴鍵，轉動旋鈕“T0”，顯示螢幕顯示當前控制器的CC編號。

(3) 按下“NUMERIC KEYPAD”下方標註數字的琴鍵，輸入“91”，再按下“ENTER”標註對應琴鍵進行確認，顯示屏顯示旋鈕CC信息。

(4) 再次按下“MIDI/SELECT”按鍵，返回演奏模式，顯示螢幕顯示音色編號和通道號。
(指示燈熄滅，此時旋鈕“T0”選配CC91(REVERB)功能被記憶)

注意： 如需編輯其它旋鈕， 請模仿上述操作。

操作舉例六：配置旋鈕控制器“T0”用於控制通道10

(1) 按下“MIDI/SELECT”按鍵，進入副功能編輯模式(指示燈點亮，顯示螢幕顯示“EDIT”)

(2) 按下“CTRL CHL.”標註對應琴鍵，轉動旋鈕“T0”，顯示螢幕顯示當前控制器的CC編號。。

(3) 按下“NUMERIC KEYPAD”下方標註數字的琴鍵，輸入“10”，按下“ENTER”標註對應琴鍵進行確認，顯示螢幕顯示更換後通道號，說明設置成功。

(4) 再次按下“MIDI/SELECT”按鍵，返回演奏模式，顯示螢幕顯示音色編號和通道號。
(指示燈熄滅，此時旋鈕“T0”選配的控制通道被記憶)
注意：如需編輯其它旋鈕，請模仿上述操作。

操作舉例七：配置按鍵“B1”的快捷音色(TONE)或 CC功能。

(1) 按下“MIDI/SELECT”按鍵，進入副功能編輯模式。
(指示燈點亮，顯示螢幕顯示“EDIT”)

(2) 按下“BUTTON MODE”標註對應琴鍵，切換快捷音色或CC功能模式。
“MIDI/SELECT”按鍵指示燈熄滅。
注意：當按鍵為CC功能時，只能編輯其CC功能；當按鍵為快捷音色時，
只能編輯其快捷音色(TONE)。

(3) 再次按下“MIDI/SELECT”按鍵，進入副功能編輯模式
(指示燈點亮，顯示螢幕顯示“EDIT”)。

(4) 按下“CTRL ASSIGN”標註對應琴鍵，再按下“B1”按鍵，顯示螢幕顯示當前功能編號。

(5) 按下WNUMERIC KEYPAD 下方標註數字的琴鍵，輸入所需要的快捷音色(TONE)或CC功能編號，再按下“ENTER”標註對應琴鍵進行確認，顯示螢幕顯示設置成功的快捷音色(TONE)或CC功能信息。

(6) 再次按下“MIDI/SELECT”按鍵，返回演奏模式，顯示螢幕顯示音色編號和通道號。
(指示燈熄滅，此時“B1”值被記憶)
注意：如需編輯其它按鍵，請模仿上述操作。

操作舉例八：配置按鍵控制器 “ M1”發送CC信息“ 51”。

(1) 按下“MIDI/SELECT”按鍵，進入副功能編輯模式。
(指示燈點亮，顯示螢幕顯示“EDIT”)

(2) 按下“CTRL ASSIGN”，再按下“M1”按鍵顯示螢幕顯示當前控制器的CC編號。

(3) 按下“NUMERIC KEYPAD”下方標註數字的琴鍵，輸入“51”，按“下ENTER”標註對應琴鍵進行確認，顯示螢幕顯示設置成功的CC功能信息。

(4) 再次按下“MIDI/SELECT”按鍵，返回演奏模式，顯示螢幕顯示音色編號和通道號。
(指示燈熄滅，此時按鍵“M1”選配CC功能被記憶)
注意：如需編輯其它按鍵，請模仿上述操作。

操作舉例九：配置鼓墊控制器“P1”為音符信息(Note)功能或 CC功能

(1) 按下“MIDI/SELECT”按鍵，進入副功能編輯模式
(指示燈點亮，顯示螢幕顯示“EDIT”)。

(2) 按下“PAD MODE”：標註對應琴鍵，切換音符信息(Note)功能或CC功能，
“MIDI/SELECT”按鍵指示燈熄滅。
注意：當按鍵為CC功能時，只能編輯其CC功能；
當按鍵為音符信息(Note)功能時，只能編輯其快捷音色(Note)。

(3) 再次按下“MIDI/SELECT”按鍵，進入副功能編輯模式。
(指示燈點亮，顯示屏顯“EDIT")

(4) 按下“CTRL ASSIGN”，再按下鼓墊控制器“P1”，顯示螢幕顯示當前功能編號。

(5) 按下“NUMERIC KEYPAD”下方標註數字的琴鍵，輸入所需要的音符信息
(Note)或 CC 編號，再按下“ENTER”標註對應琴鍵進行確認，
顯示螢幕顯示設置成功的音符信息(Note)或CC功能信息。

(6) 再次按下“MIDI/SELECT”按鍵，返回演奏模式，顯示螢幕顯示音色編號和通道號。
(指示燈熄滅，此時“P1”值被記憶)
注意：如需編輯其它鼓墊控制器，請模仿上述操作。

注：1. 完成配置琴鍵數據，在10秒之後才被保存。
2. 被保存的數據在下次開機依然保持。

7. 恢復出廠設置：

1. 斷開電源，鍵盤處於關機狀態下。
2. 同時按下“B1”“B2”兩個按鍵。
3. 再接上USB線啟動設備,顯示屏顯示“RESET”，3秒後鬆開按鍵即可恢復出廠設置。

8. 附表：

附表1：規格表

產品規格	
產品名稱	X6 pro /X8 pro
琴鍵	61 /88/力度感應琴鍵
顯示螢幕	16*2 液晶顯示螢幕
音色	128個標準GM音色(Dream 5000)
按鍵	MIDI /SELECT、OCTAVE組、按鍵組(B1-B8)、 鼓墊按鍵組(P1-P8)和走帶組組(M1-M5、MMC)
旋鈕	T1-TO可編輯旋鈕控制器
插孔	USB, PEDALS(SUSTAIN, EXPRESSION), MIDI OUT MIDI IN ,BALANCED LINE OUTPUT(R,L), HEADPHONE(STEREO)
複音	最大支持64複音
附件	USB連接線,使用說明書
重量	X6 pro: 5.5kg X8 pro: 7.5kg
尺寸	X6 pro: 978*215*74(mm) X8 pro:1356*215*74(mm)

附表2：GM音色一覽表

鋼琴		色彩打擊樂器		風琴	
0.	大鋼琴	8.	鋼琴片	16.	擊桿風琴
1.	明亮的鋼琴	9.	鍾琴	17.	打擊式風琴
2.	電鋼琴	10.	八音盒	18.	搖滾風琴
3.	酒吧鋼琴	11.	顫音琴	19.	教堂風琴
4.	柔和的電鋼琴	12.	馬林巴	20.	簧管風琴
5.	加合唱效果的電鋼琴	13.	木琴	21.	手風琴
6.	羽管鋼琴(撥弦古鋼琴)	14.	管琴	22.	口琴
7.	科拉維科特琴	15.	大楊琴	23.	探戈手風琴

吉他		58.	大號	93.	合成音色6(金屬聲)
24.	尼龍弦吉他	59.	加弱音器小號	94.	合成音色7(光環)
25.	民謠吉他	60.	法國號(圓號)	95.	合成音色8(合成效果)
26.	爵士電吉他	61.	銅管組(銅管樂器合奏音色)	合成效果	
27.	清音電吉他	62.	合成銅管音色1	96.	合成效果1 雨聲
28.	悶音電吉他	63.	合成銅管音色2	97.	合成效果2 音軌
29.	加驅動效果的電吉他	單簧管		98.	合成效果3 水晶
30.	加失真效果的電吉他	64.	高音薩克斯風	99.	合成效果4 大氣
31.	吉他和音	65.	次中音薩克斯風	100.	合成效果5 明亮
貝司		66.	中音薩克斯風	101.	合成效果6 鬼怪
32.	大貝司(原聲貝司)	67.	低音薩克斯風	102.	合成效果7 迴聲
33.	電貝司(指彈)	68.	雙簧管	103.	合成效果8 科幻
34.	電貝司(撥片)	69.	英國管	民間樂器	
35.	無品貝司	70.	巴松(大管)	104.	西塔爾(印度)
36.	擊掌貝司1	71.	單簧管(黑管)	105.	班卓琴(美洲)
37.	擊掌貝司2	笛		106.	三味線(日本)
38.	電子合成貝司1	72.	短笛	107.	十三弦箏(日本)
39.	電子合成貝司2	73.	長笛	108.	卡林巴
弦樂		74.	豎笛	109.	風笛
40.	小提琴	75.	排簫	110.	名族提琴
41.	中提琴	76.	Bottle Blow(中文名稱暫缺)	111.	山奈
42.	大提琴	77.	日本尺八	打擊樂器	
43.	低音提琴	78.	口哨聲	112.	叮噹鈴
44.	弦樂群顫音音色	79.	人奧卡雷那	113.	Agogo(中文名稱暫缺)
45.	弦樂群撥弦音色	合成主音		114.	鋼鼓
46.	豎琴	80.	合成主音1(方波)	115.	木魚
47.	定音鼓	81.	合成主音2(鋸齒波)	116.	太鼓
合奏/合唱		82.	合主音3	117.	通通鼓
48.	弦樂合奏音色1	83.	合成主音4	118.	合成鼓
49.	弦樂合奏音色2	84.	合成主音5	119.	銅鈸
50.	合成弦樂合奏音色1	85.	合成主音6(人聲)	聲音效果	
51.	合成弦樂合奏音色2	86.	合成主音7(平行五度)	120.	吉他換把雜音
52.	人聲合唱“啊”	87.	合成主音8(貝司加主音)	121.	呼吸聲
53.	人聲“嘟”	合成音色		122.	海浪聲
54.	合成人聲	88.	合成音色1(新世紀)	123.	鳥鳴
55.	管弦樂敲擊齊奏	89.	合成音色2(溫暖)	124.	電話鈴
銅管		90.	合成音色3	125.	直升機
56.	小號	91.	合成音色4(合唱)	126.	鼓掌聲
57.	長號	92.	合成音色5	127.	槍聲

附表3：鼓墊音色一覽表

1.	D#1	High Q	32.	A#3	Vibra slap
2.	El	Slap	33.	B3	Ride Cymbal 2
3.	FL	Scratch Push	34.	C4	Hi Bongo
4.	F#1	Scratch Pull	35.	C#4	Low Bongo
5.	GL	Sticks	36.	D4	Mute Hi Conga
6.	G#1	Square Clinkl	37.	D#4	Open Hi Conga
7.	A1	Metronome Click	38.	E4	Low Conga
8.	A#1	Metronome Bell	39.	F4	High Timbale
9.	B1	Acoustic Bass Drum	40.	F#4	Low Timbale
10.	C2	Bass Drum 1	41.	G4	High Agogo
11.	C#2	Side Stick	42.	G#4	Low Agogo
12.	D2	Acoustic Snare	43.	A4	Cabasa
13.	D#2	Hand Clap	44.	A#4	Maracas
14.	E2	Electric Snare	45.	B4	Short Whistle
15.	F2	Low Floor Tom	46.	C5	Long Whistle
16.	F#2	Closed Hi Hat	47.	C#5	Short Guiro
17.	G2	High Floor Tom	48.	D5	Long Guiro
18.	G#2	Pedal Hi Hat	49.	D#5	Claves
19.	A2	Low Tom	50.	E5	Hi Wood Block
20.	A#2	Open Hi Hat	51.	F5	Low Wood Block
21.	B2	Low-Mid Tom	52.	F#5	Mute Triangle
22.	C3	Hi-Mid Tom	53.	G5	Open Triangle
23.	C#3	Crash Cymbal	54.	G#5	Mute Triang
24.	D3	High Tom	55.	A5	Open Triangle
25.	D#3	Ride Cymball	56.	A#5	Shaker
26.	E3	Chinese Cymbal	57.	B5	Jingle Bell
27.	F3	Ride Bell	58.	C6	Bell tree
28.	F#3	Tambouine	59.	C#6	Castanets
29.	G3	Splash Cymbal	60.	D6	Mute Surdo
30.	G#3	Cowbell	61.	D#6	Open Surdo
31.	A3	Crash Cymbal2			

附表4：鼓墊音符一覽表

序名	音色	序名	音色	序名	音色	序名	音色
0	C-1	32	G#+1	64	E+4	96	C+7
1	C#-1	33	A+1	65	F+4	97	C#+7
2	D-1	34	A#+1	66	F#+4	98	D+7
3	D#-1	35	B+1	67	G+4	99	D#+7
4	E-1	36	C+2	68	G#+4	100	E+7
5	F-1	37	C#+2	69	A+4	101	F+7
6	F#-1	38	D+2	70	A#+4	102	F#+7
7	G-1	39	D#+2	71	B+4	103	G+7
8	G#-1	40	E+2	72	C+5	104	G#+7
9	A-1	41	F+2	73	C#+5	105	A+7
10	A#-1	42	F#+2	74	D+5	106	A#+7
11	B-1	43	G+2	75	D#+5	107	B+7
12	C0	44	G#+2	76	E+5	108	C+8
13	C#0	45	A+2	77	F+5	109	C#+8
14	D0	46	A#+2	78	F#+5	110	D+8
15	D#0	47	B+2	79	G+5	111	D#+8
16	E0	48	C+3	80	G#+5	112	E+8
17	F0	49	C#+3	81	A+5	113	F+8
18	F#0	50	D+3	82	A#+5	114	F#+8
19	G0	51	D#+3	83	B+5	115	G+8
20	G#0	52	E+3	84	C+6	116	G#+8
21	A0	53	F+3	85	C#+6	117	A+8
22	A#0	54	F#+3	86	D+6	118	A#+8
23	B0	55	G+3	87	D#+6	119	B+8
24	C+1	56	G#+3	88	E+6	120	C+9
25	C#+1	57	A+3	89	F+6	121	C#+9
26	D+1	58	A#+3	90	F#+6	122	D+9
27	D#+1	59	B+3	91	G+6	123	D#+9
28	E+1	60	C+4	92	G#+6	124	E+9
29	F+1	61	C#+4	93	A+6	125	F+9
30	F#+1	62	D+4	94	A#+6	126	F#+9
31	G+1	63	D#+4	95	B+6	127	G+9

附表5：CC控制器一覽

0	音色庫選擇MSB	72	放音時值
1	顫音深度（粗調）	73	起音時值
2	呼吸控制器（粗調）	74	亮音
3	N/A	75-79	聲音控制
4	踏板控制器（粗調）	80-83	一般控制器（# 5 -# 8）
5	連滑音速度（粗調）	84	連滑音控制
6	高位元組數據輸入	85-90	N/A
7	主音量（粗調）	91	混響效果深度
8	平衡控制（粗調）	92	（未定義的效果深度）
9	N/A	93	合唱效果深度
10	聲像調整（粗調）	94	（未定義的效果深度）
11	情緒控制器（粗調）	95	移調器深度
12-15	N/A	96	數據累增
16-19	一般控制器	97	數據遞減
20-31	N/A	98	未登記的低元組數值（NRPN LSB）
32	插口選擇	99	未登記的高元組數值（NRPN MSB）
33	顫音速度（微調）	100	已登記的低元組數值
34	呼吸控制器（微調）	101	已登記的高元組數值（RPN MSB）
35	N/A	102-119	N/A
36	踏板控制器（微調）	120	關閉所有聲音
37	連滑音速度（微調）	121	關閉所有控制器
38	低位元組數據輸入	122	本地鍵盤開關
39	主音量（微調）	123	關閉所有音符
40	平衡控制（微調）	124	Omni模式關閉
41	N/A	125	Omni模式開啟
42	聲像調整（微調）	126	單音模式
43	情緒控制器（微調）	127	複音模式
44	效果FX控制1（微調）		
45	效果FX控制2（微調）		
46-63	N/A		
64	保持音踏板1（延音踏板）		
65	滑音		
66	持續音		
67	弱音踏板		
68	連滑音踏板控制器		
69	保持音踏板2		
70	變調		
71	音色		

www.midiplus.com