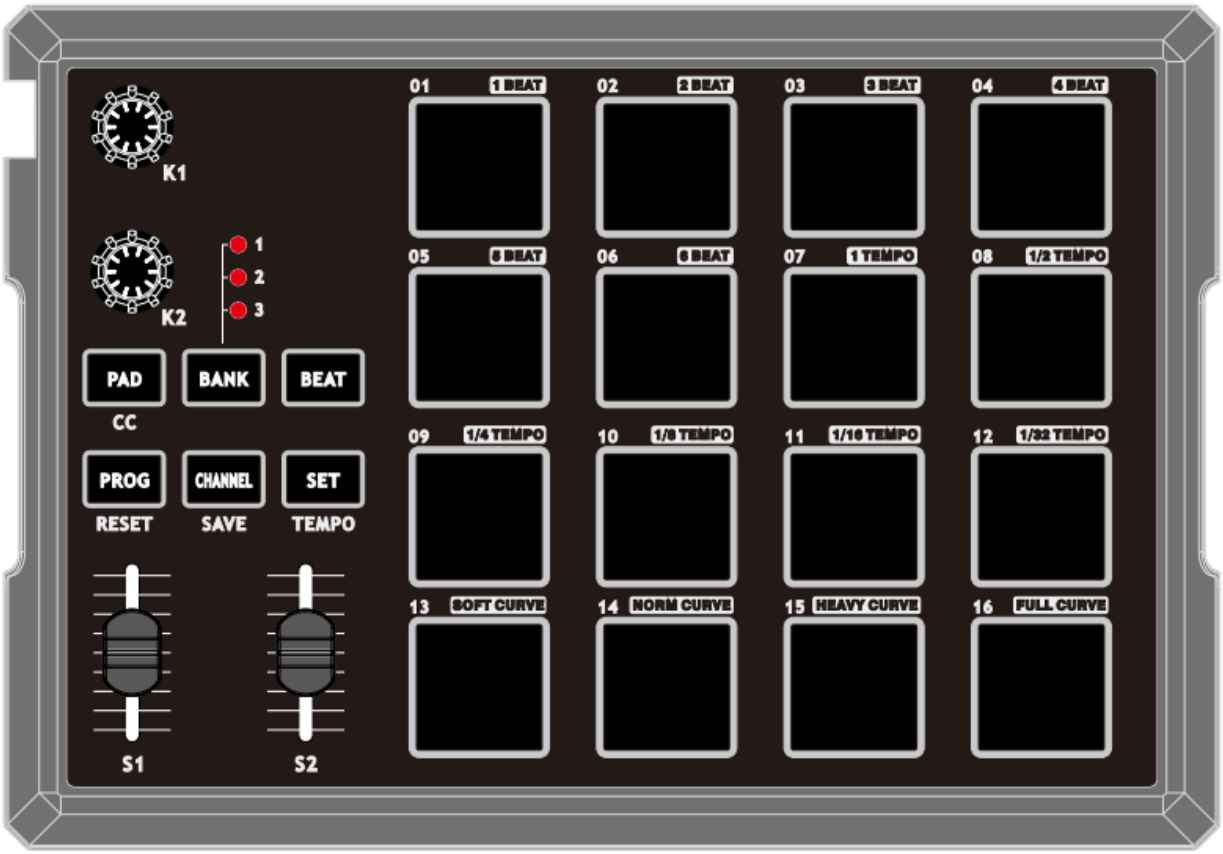
xPAD

Owner's Manual



CONTENTS

(1) Preface

Congratulations on your purchase of MIDIPLUS xPAD. xPAD is a petite appearance and powerful MIDI control PAD, portable and powerful MIDI function, is a cost-effective products, worth you have. Next to introduce xPAD function and operating, it set powerful MIDI functions, Includes 16 Drum PAD,2 clipper potentiometer, 2 unlimited rotation data regulator, 6 function key :"PAD/CC" key , "PROG/RESET" key, "BANK" key, "CHANNEL/SAVE" key, "BEAT" key, "SET/TEMPO" key; And USB socket. xPAD support apple system and the Microsoft Windows XP/7/8 system, do not need to install the USB driver, the system can directly identify the MIDI USB devices.

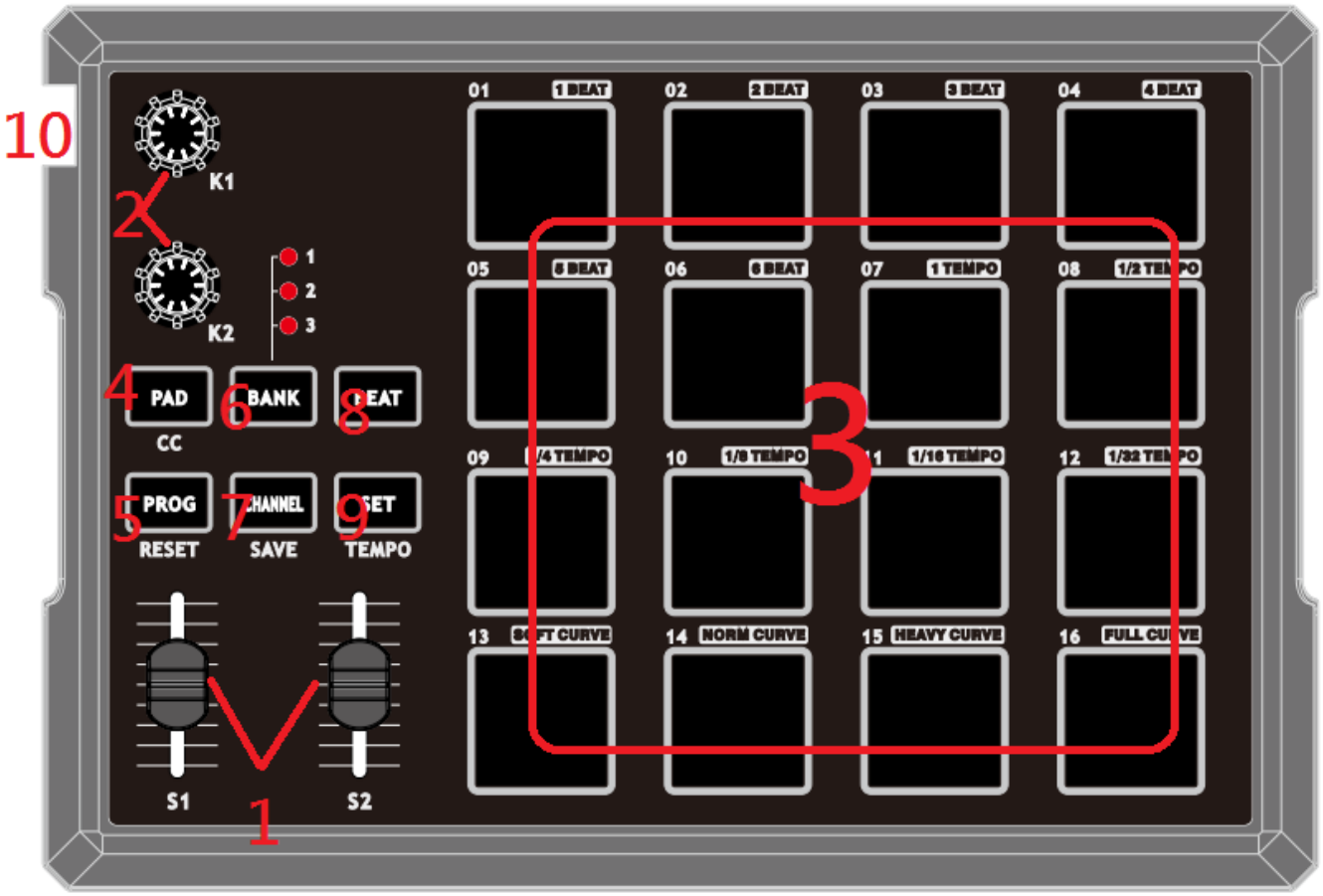
(2) What's in the Box?

1.xPAD force sensing 16 Drum PAD USB MIDI controller.

2.A standard manual.

3.A standard USB wire.

(3) Panel overview :



Function of the serial number	
(1) Fader potentiometer (S1,S2) (2) Unlimited rotation data regulator (K1,K2) (3) Drum PAD (4) "PAD/CC"Key (5) "PROG/RESET"Key	(6) "BANK-(1/2/3)"Key (7) "CHANNEL/SAVE" Key (8) "BEAT"Key (9) "SET/TEMPO"Key (10) USB 2.0

(4) Functions overview：

4.1 Fader potentiometer (S1,S2):

Fader potentiometer to send specific controller information, you can use MIDI Editor software editing a CC value

4.2 Unlimited rotation data regulator (K1,K2):

Unlimited rotation data regulator to send specific controller information, you can use MIDI Editor software edit a CC value

4.3 Drum PAD:

Drum PAD: According to the current mode , to send specific MIDI information and light up LED , you can use MIDI Editor software edit a CC value.

4.4 “PAD/CC” Key

“PAD/CC” key has two modes, one kind is “PAD”, another kind is “CC”.

“PAD” mode: Drum PAD will send a message like keyboard MIDI “0x90 0x40 0x7f”. The key and PADs LED will lights **green**, you can use MIDI Editor software edit the “PAD” mode LED color.

“CC” mode: When the “SET” key is pressed , press the “PAD/CC” key , enable the “CC” state . Drum PAD will send a message like controller MIDI “0xb0 0x40 0x7f”. The key and PADs LED will lights **blue**, you can use MIDI Editor software edit the “CC” mode LED color.

4.5 “PROG/RESET” Key

“PROG/RESET” key has two modes, one kind is “PROG”, another kind is “RESET”.

“PROG” mode: Drum PAD will send a message like Sound MIDI “0xc0 0x40”

The key and PADs LED will lights **red**, you can use MIDI Editor software edit the “PROG” mode LED color.

“RESET”: When the “SET” key is pressed , press the “PROG/RESET” key , enable the “RESET” state . Restore factory parameters, xPAD will restart the boot state

4.6 “BANK-(1/2/3)” Key:

“BANK-(1/2/3) key” toggles the PAD group of the 1/2/3.

Group 1: In between 1-16 PAD , Led 1 light up

Group 2: In between 17-32 PAD , Led 2 light up

Group 3: In between 33-48 PAD , Led 3 light up

4.7 “CHANNEL/SAVE” Key:

“CHANNEL/SAVE” key has two modes, one kind is “CHANNEL”, another kind is “SAVE”.

“CHANNEL”: Press 1~48 PADs will change a midi channel

(PAD mode/CC mode/PROG mode)

In PAD mode , press “CHANNNEL/SAVE”, the key and Drum PAD Led will light the color same as PAD mode , like green. And “PAD/CC” key will light down.

In CC mode , press “CHANNNEL/SAVE”, the key and Drum PAD Led will light the color same as CC mode , like blue. And “PAD/CC” key will light down.

In PROG mode , press “CHANNNEL/SAVE”, the key and Drum PAD Led will light the color same as PROG mode , like red. And “PAD/CC” key will light down.

“SAVE”: When the “SET” key is pressed , press the “CHANNNEL/SAVE” key , enable the “SAVE” state, to save all the parameters , the key will light yellow.

4.8 “BEAT” Key:

Press the “BEAT” , the tick device is turned on, the LED light up. Tick will send similar tick、 tick、 clicking the MIDI note. It will compulsory enable “TEMPO” state of the “SET/TEMPO” key when “BEAT” key is ON. With metronome (“TEMPO” key), reuse the keys of tick TIME (BEAT TIME) are used together, send a note speed adjustment.

4.9 “SET/TEMPO”:

“SET/TEMPO” key has two modes, one kind is “SET”, another kind is “TEMPO”.

“SET” : When press “SET” button, not loosen, the key Led light red, the PAD multiplex mode is ON, then press the PADs(1-6:beat number;7-12:beat time;13-16:PAD velocity curve) and will change these parameters. For example : “SET” is ON, press the PADs 1, beat number will change for 1 . Press the PADs 8, beat time will change for 1/2 tempo . Press the PADs 13, velocity curve will change for soft

In “SET” state

Beat number (1-6PADs) : Light green.

Beat time (7-12PADs) : Light blue.

PAD velocity curve (13-16PADs) : Light red . Ps. Full velocity curve is all midi velocity byte send 0x7f

“TEMPO” : It will compulsory enable “TEMPO” state of the “SET/TEMPO” key when “BEAT” key is ON , reuse the keys of tick TIME (BEAT TIME) are used together, send a note speed adjustment. Blinking blue .

4.10 USB 2.0:

There will be a USB jack on the side of the unit. The unit will be a class compliant with both Mac and PC. It will mount as a USB-MIDI device. The unit will be fully powered by USB.

(5) Minimum System Requirements：

If you are using your xPAD with a computer, the following minimum system requirements need:

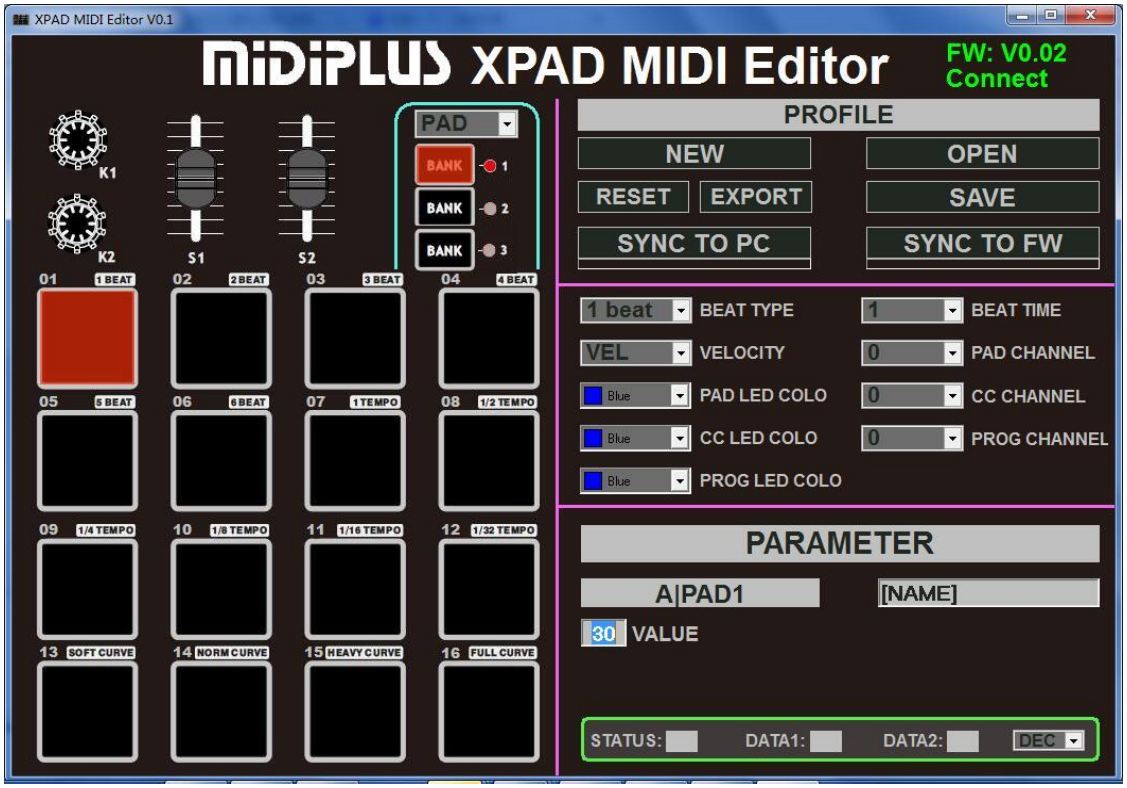
Windows	**Mac OS**
Pentium 3 800MHz or higher	Macintosh G3*800/G4*733MHzor higher
CPU requirement may be higher laptops	CPU requirement may be higher for laptops
256 MB RAM	OS X 10.3.9 with 256MB RAM
Direct X 9.0b or higher	OS X 10.4.2 or greater with 512 MB RAM
Windows XP(SP2) or higher	*G3/G4 accelerator cards are not supported.
Windows 98,Me,NT or 2000 not supported	

MIDIPLUS suggests that you connect directly to your computer built in USB ports.

(6) xPAD MIDI Editor Software

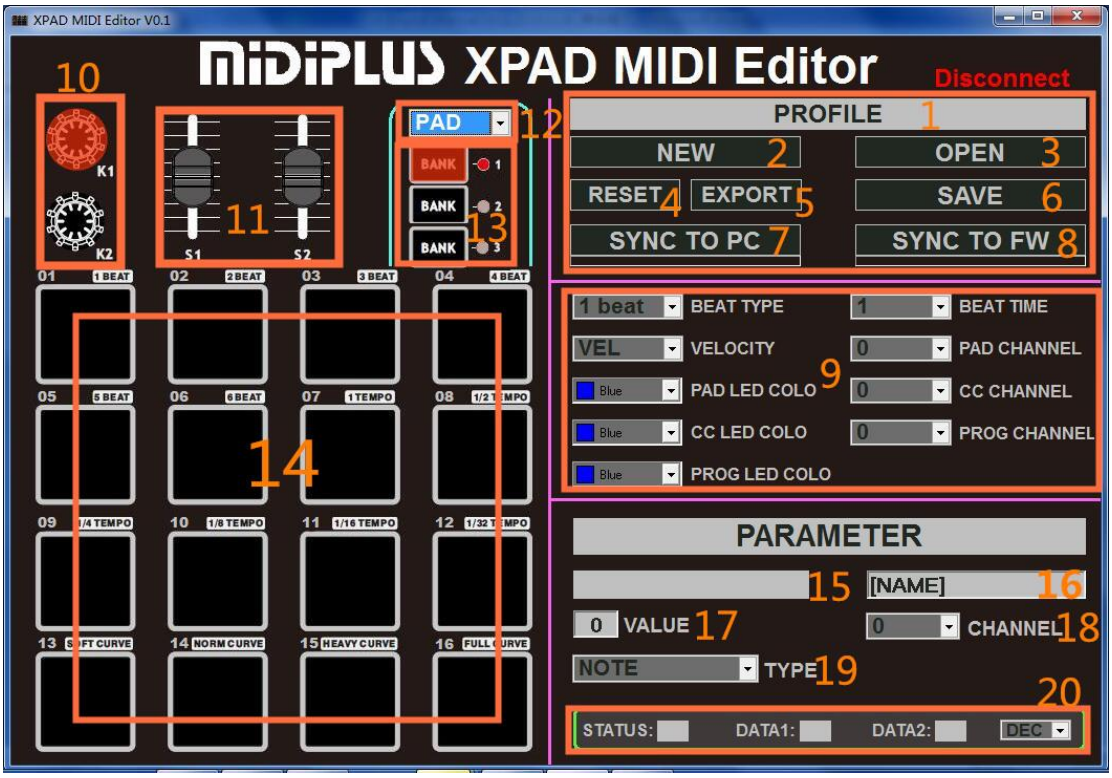
xPAD connect computer, and then open the xPAD MIDI Editor software, pay attention to the computer have to recognize xPAD USB devices, xPAD MIDI Editor software can display the connection status and the firmware version number, such as picture 1. Computers have no recognize xPAD device or No insert xPAD equipment, open xPAD MIDI Editor software will display not connected state: **Disconnect**, such as picture 2, please check.

Picture 1: Drive connect (display **Connect**, firmware version number: **FW**: V0.02)



Picture 2: Drive not connected (display: **Disconnect**)

MIDI Editor software functional description



Function of the serial number	Function of the serial number
(1)Filename	(11) Pusher potentiometer(S1,S2)
(2)New construction parameters(NEW)	(12)Select Drum Pad mode
(3)Open the construction file(OPEN)	(13) Toggles the PAD group of the 1/2/3
(4)Reset parameters and synchronize data(RESET)	(14) Drum PAD
(5)Export construction file(EXPORT)	(15) Function of the alias
(6)Save the parameters(SAVE)	(16) Modify the alias
(7)Sync to computer(SYNC TO PC)	(17) Data byte(VALUE)
(8)Sync to the device(SYNC TO FW)	(18) Edit channel(CHANNEL)
(9)The composite function area	(19)Data type(TYPE)
(10) Encoder (K1,K2)	(20) Real-time status information

6.1 Filename

Users in the area of autonomous operation function.

6.2 New construction parameters (NEW)

Click "NEW", at the option to restore for the default parameters.

6.3 Open the construction file (OPEN)

Click "OPEN", can open the saved construction file, the file named “***. CUS”

6.4 Reset parameters and synchronize data to the device (RESET)

If xPAD connected, click the "RESET", the software configuration parameters restore to the factory, and synchronous data to the xPAD ;

If xPAD not connected, click the "RESET", said the wrong window will pop up, remind users to connect xPAD .

6.5 Export construction file (EXPORT)

Click on the "EXPORT", the user parameter export is saved as a file, in order to backup the user parameter file;

6.6 Save the parameters (SAVE)

Modify the software configuration parameters, click "SAVE" and save the parameters, to open the software will not missing parameters

6.7 Sync to computer (SYNC TO PC)

Click the "SYNC TO the PC," xPAD configuration parameters will be synchronized to the computer software (xPAD MIDI EDITOR)

6.8 Synchronized to the device (SYNC TO FW)

Click the "SYNC TO FW," The computer software (xPAD MIDI EDITOR) configuration parameters will be synchronized to the device (xPAD)

6.9 The composite function area

This area can edit the composite function parameters of the xPAD , the user can click on any options changes;

“BEAT TYPE” select (1 beat~6 beat): “BEAT TYPE” is the choice of the special function for the xPAD MIDI EDITOR, can control the rhythm of tick note type

“VELOCITY” select curve “VEL” , “NORM“, “HEAVY” , “SOFT”(VEL:Full velocity curve is all midi velocity byte send 0x7f)

“BEAT TIME” can select “1”, “1/2”,”1/4”,”1/8”,”1/16”,”1/32 “

“PAD LED COLOR” can select “Blue” , “Green” , “Red” , “Sky Blue” , “Pink” , “Orange” (User can change the lighting effects for this mode)

“CC LED COLOR” can select “Blue” , “Green” , “Red” , “Sky Blue” , “Pink” , “Orange” (User can change the lighting effects for this mode)

“PROG LED COLOR” can select “Blue” , “Green” , “Red” , “Sky Blue” , “Pink” , “Orange” (User can change the lighting effects for this mode)

“PAD CHANNEL” can select 0~15. (User can change the channel for this mode)

“CC CHANNEL” can select 0~15. (User can change the channel for this mode)

“PROG CHANNEL” can select 0~15. (User can change the channel for this mode)

6.10 Pusher potentiometer (S1,S2)

Use the mouse to click the S1/S2 icon, software interface appears translucent red label, indicating the user can change the S1/S2 custom functions, such as status byte: **TYPE**, data bytes: **VALUE**, the channel: **CHANNEL**.

6.11 Encoder (K1,K2)

Use the mouse to click the Encoder icon, software interface appears translucent red label, indicating the user can change the encoder custom functions, such as status byte: **TYPE**, data bytes: **VALUE**, the channel: **CHANNEL**.

6.12 Select Drum Pad mode (S1,S2)

Use the mouse to click the “Select Drum Pad mode” icon, user can select present DRUM PAD mode to change the PADs value. Such as , in” PAD mode” , change the PAD 05 value to 0x20 . Or in “CC mode” , change the PAD 05 value to 0x30.

6.13 Toggles the PAD group of the 1/2/3

Use the mouse to click the ” BANK-1/2/3” , software interface appears translucent red label, indicating the user can change the present PAD group .Such as: Select BANK-1 , all PADs is 1~16. Select BANK-2 , all PADs is 17~32. Select BANK-3 , all PADs is 33~48.

6.14 Drum PAD

Use the mouse to click the Drum PAD, software interface appears translucent red label, indicating the user can change the Drum PAD custom functions, such as data bytes: **VALUE**.

Ps. It has 3 mode (PAD mode , CC mode , PROG mode; The **value** that the respective mode modifies is different)

6.15 Function of the alias

The area used to display the function of the alias, convenient user to see the alias of the custom function.

6.16 Modify the alias

User can input function on the edit field alias, note the use of the name to function.

6.17 Data byte (VALUE)

User can click on the "VALUE" on the left side of the square space, fill in 0 ~ 127, such as the currently selected edit encoder(K1), the “TYPE” select “NOTE”, “VULUE” fill in 127, the synchronous data to the xPAD , xPAD sends a message format for the encoder (state bytes: 0x90, data bytes: 0x7f, velocity bytes: 0 ~ 0x7f)

6.18 Edit channel (CHANNEL)

Click on the "CHANNEL", the user can choose the encoder/ Pusher potentiometers on the channel (channel value is 0 ~ 15)

6.19 Data type (TYPE)

"TYPE" drop-down box to choose NOTE (0x90), PC (0xc0), PITCH BEND (0xe0), AFTER TOUCH (0xd0), CC (0xb0);

In the encoder (Data) mode with CC (Relative) and CC (Absolute)

CC(Relative):0xBx （The encoder back to normal mode）;

CC(Absolute):0xBx, Only the encoder (6.11), velocity bytes will enable the absolute value model, each turn left, velocity bytes will start from 0x40 decreased ; Each turn right , velocity bytes will start from 0x40 began to increase

6.20 Real-time status information (STATUS,DATA1, DATA2,DEC/HEX)

After connect xPAD , rotate any potentiometer or encoder and press the button have information uploaded to the software, according to the real-time STATUS: STATUS byte (x > 0 x80), DATA1: data bytes (x < 0 x80), DATA2: byte (x < 0 x80), DEC: decimal, HEX: hexadecimal display

(7) Download xPAD MIDI Editor software’s web：

Web: http://www.midiplus.com.tw/MIDIPLUS-Download.htm