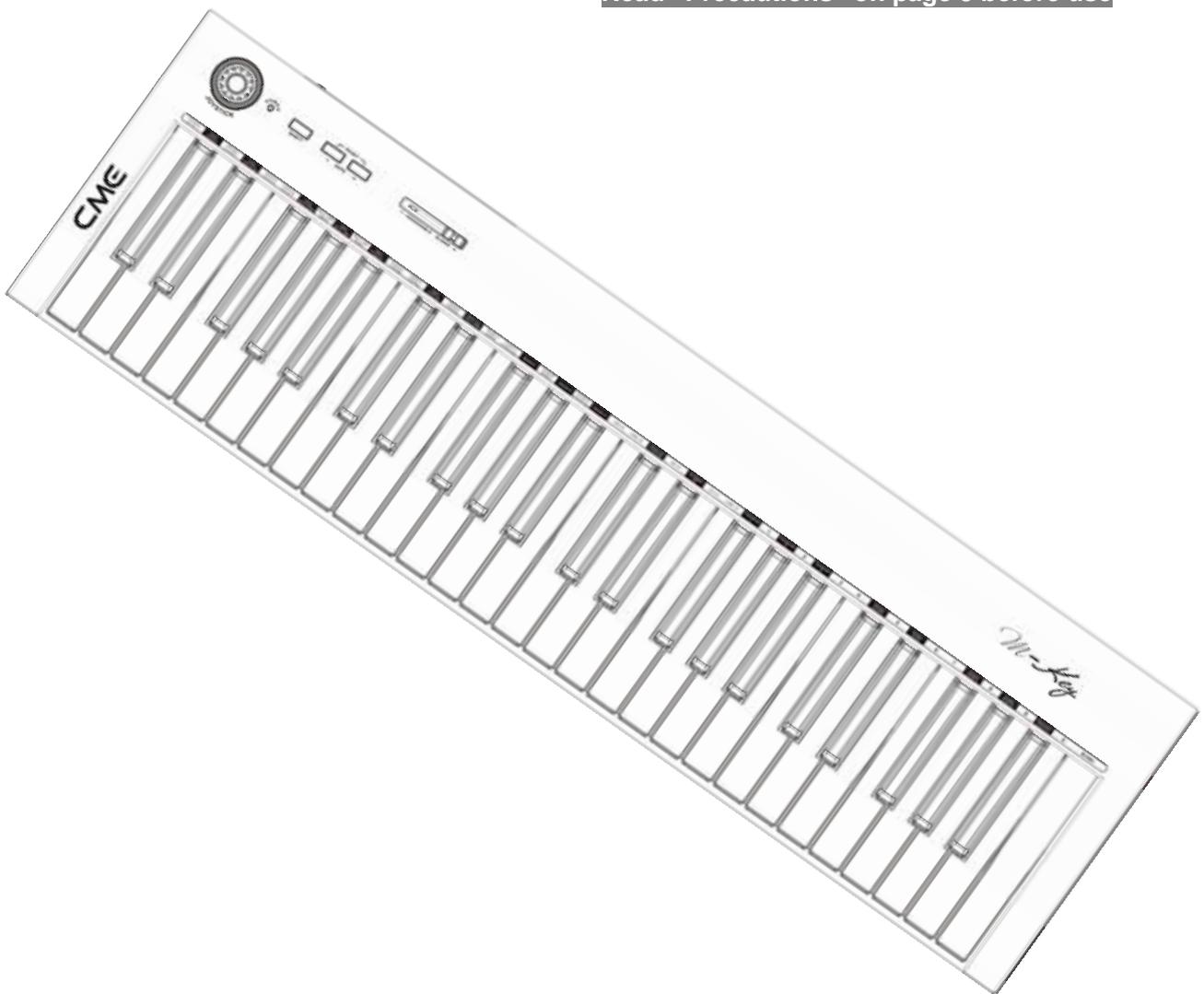




M-Key Ultra-thin MIDI Keyboard User's manual

Model: M-Key

Read "Precautions" on page 5 before use



(Ver 04)

Please read this manual carefully before use.
Please keep this manual for reference.

Thank you for choosing CME M-Key — Ultra-thin MIDI Keyborad

Please keep all the important information here

Attach your invoice or receipt here

~ ~ ~ ~ ~

for reference

Purchase	date	Serial	(on the back of the keyboard)
Dealer's	name	and	addr.
Dealer's tel.			

Warning:

- Improper connection may cause damage to the device.

Copyright

- Copyright of the manual belongs to Central Music Co. Anyone must get a written permission from Central Music Co. before copying any part of the manual to any kind of media.

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Package list

Please check all the items in the product package:

- Ultra-thin MIDI keyboard 1 pcs
- USB cable 1 pcs
- User's manual 1 pcs

Special Message Section

This product utilizes batteries or an external power supply (adapter). Do NOT connect this product to any power supply or adapter other than one described in the manual, on the product, or specifically recommended by CME.

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, make sure that the cord has the ability to handle maximum current needed by this product. Please consult a local electrician when possible.

This product should be used only with the components supplied or recommended by CME. When used with any components, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, CME reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker(s), may be capable of producing sound levels that could cause permanent hearing loss. Do NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some CME products may have stands and/or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that stands are stable and any optional fixtures (where applicable) are well secured BEFORE using.

Stands supplied by CME are designed for the respect products only. No other uses are recommended.

NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:

CME strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:

This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, do not mix batteries with new, or with batteries of different type. Batteries MUST be installed correctly. Mismatches of incorrect installation may result in overheating and battery case rupture.

Warning:

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact CME directly.

FCC INFORMATION (U.S.A)

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by CME may void your authority, granted by the FCC, to use the product.

2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable(s) supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. **NOTE:** This product has been tested and found to comply with the limits for a Class B Digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problems by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you cannot locate the appropriate retailer, please contact CME.

The above statements apply **ONLY** to those products distributed in the USA.

PRECAUTIONS

IMPORTANT

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, damages, fire or other hazards. These precautions include, but are not limited to, the follows:

1. Read and understand all the instructions.
2. Always follow the instructions on the instrument.
3. Before cleaning the instrument, always remove the electric plug from the outlet as well as the USB cable. When cleaning, use a soft and dry cloth. Do not use gasoline, alcohol, acetone, turps or any other organic solutions; do not use liquid cleaner, spray cleaner or too wet cloth.
4. Do not use the instrument near water or moisture, such as bathtub, washbasin, washing pool in the kitchen or similar places.
5. Do not place the instrument in an unstable position where it might accidentally fall over.
6. Do not jam sinks or holes of the instrument; those sinks or holes are used for air circulation to prevent the instrument from overheating. Do not place the instrument near heat sink or any places with poor air circulation.
7. Do not place anything on the power cord. Make sure the power cord is set on a safe place, so nobody will step on it and no body will trip over it.
8. Do not overload the outlet and the AC cable to avoid fire or electrical shock.
9. Do not insert anything in the instrument, which may cause fire or electrical shock. Do not splash any kind of liquid to the instrument.
10. Do not disassemble the instrument in case of accidental electrical shock.
11. Always take the instrument to a qualified service center in need of repair. You will cause yourself in danger if you open or remove the cover, and improper assembly may cause electrical shock in the future use.
12. Unplug all the connectors and take the instrument to a qualified service center if anything in the below listed happens:
 - A. The power cord or connector get hurt or worn out.
 - B. Any liquid get in the instrument.
 - C. The instrument gets rain or water splash.
 - D. The instrument does not work properly after following all the instructions regarding to the trouble shootings.
 - E. The instrument falls down or gets broken.
 - F. The instrument functions poorly.
13. Do not use the instrument when thundering; otherwise the thundering may cause long-distance electrical shock.
14. Do not use the instrument when there is a gas leak nearby.

Keep this manual in safe place

CAUTION:**Setting up**

Do not connect the instrument when thundering.

Do not set up the cord or outlet to a moist place, except for that the outlet is specially designed for moist places.

When the power cord is connected to the AC outlet, do not touch the naked part of the cord or the connector.

Always follow the instructions carefully when setting up the product.

Avoid using any extending USB cable with poor quality or too long extending USB cable.

Do not use USB HUB to connect the product.

Make sure the computer USB port has adequate power supply, otherwise the product does not work properly.

WARNING:

- Do not expose the instrument to rain or moisture, to avoid fire or electrical shock.

Other precautions:

- Keep the instrument away from electrical interface sources, such as fluorescent light and electrical motors.
- Keep the instrument away from dust, heat and vibration.
- Do not expose the instrument to sunlight.
- Do not place heavy objects on the instrument; do not place containers with liquid on the instrument.
- Do not touch the connectors with wet hands
- Central Music Co. is not responsible for any damage or data loss caused by improper operation to the instrument.
- All the pictures in the manual are used for demonstration; they may be different from the real product.

Trade marks

CME and M-key are CME trade marks. Other brands and names belong to the respective owners.

Features

M-key

- 49 notes ultra-thin full action semi-weighted keyboard, velocity sensitive
- Assignable faders, joystick, pedal and other function buttons.
- USB MIDI, class-compliant with Windows XP/Vista and Mac OS X

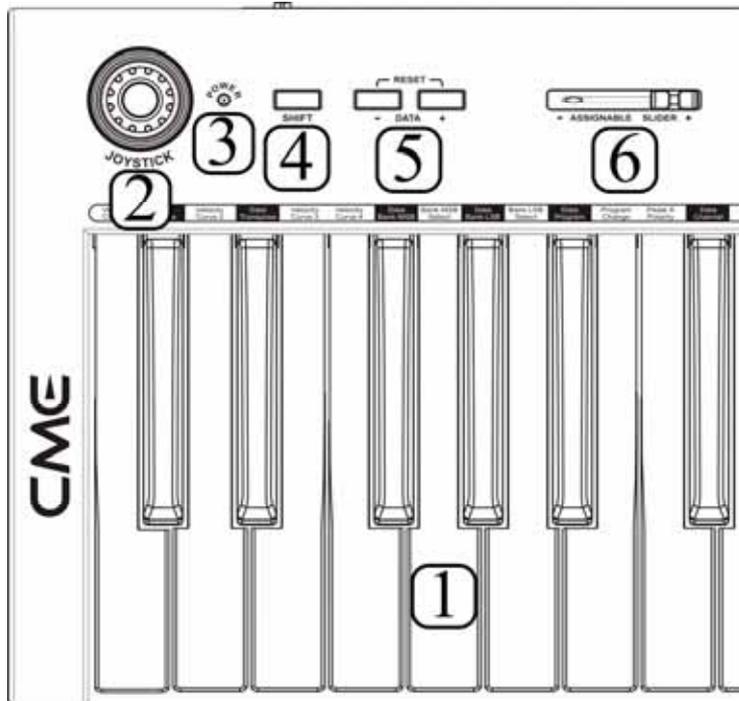
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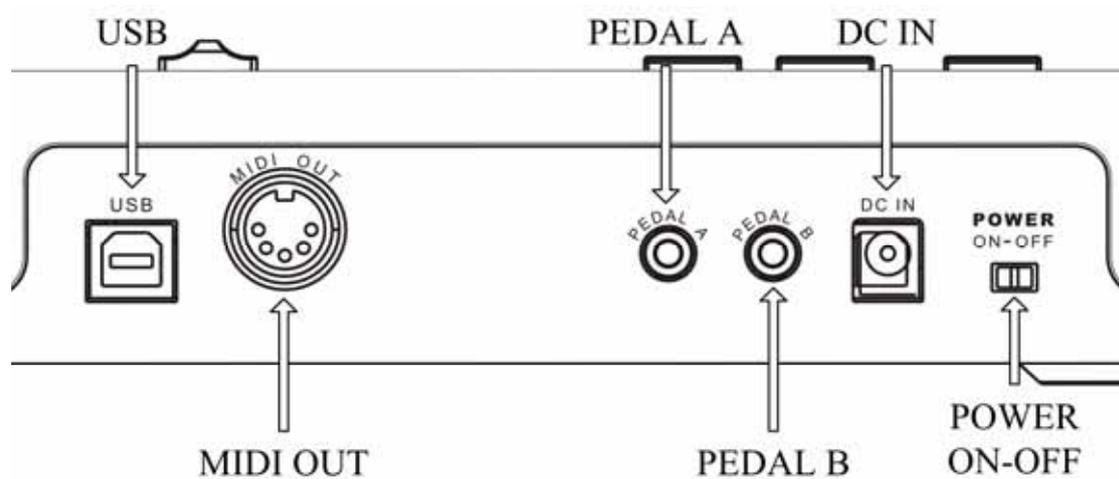
1 General view

1.1 Front panel



- 1** **KEYBOARD**
49 keys, velocity sensitive.
-  *Velocity sensitive means when you play the keyboard, it will respond to the force used to strike the keys.*
- 2** **JOYSTICK**
When you release the joystick, it will automatically return to the center position. The joystick is the part to control the pitch and/or modulation.
- 3** **POWER indicator**
It is the power indicator LED.
- 4** **SHIFT button**
The SHIFT button is used with other control parts for more functions.
- 5** **DATA button**
The DATA buttons are assignable. By default they are used for the OCTAVE/TRANPOSE function.
- 6** **ASSIGNABLE SLIDER**
By default, the assignable slider is used for volume control.

1.2 Rear panel



- USB port: to make computer connection for MIDI data transfer and get the USB bus power
- MIDI OUT : Standard 5-pin MIDI OUT port.
- PEDAL A jack : 1/8" TRS x1, can be used for volume or sustain pedal.
- PEDAL B jack : 1/8" TRS x1, can be used for volume or sustain pedal.
- DC IN(AC adapter power in port) : Connect the AC adapter here.
- POWER ON-OFF switch: Use it to turn the instrument on/off.

2 Installation guide

2.1 Power supply

A、 Use USB Power :

1. Make sure the power switch is set to OFF.
2. Connect the product to the computer via USB cable.

B、 Use AC adapter Power :

1. Make sure the power switch is set to OFF.
2. Connect the AC adapter (optional) to the POWER IN port in the rear panel.
3. Make sure the AC requirement of the AC adapter is compliant with the local AC supply, then connect the AC adapter to the power supply outlet.



Make sure the AC requirement of the AC adapter is compliant with the local AC supply, otherwise it will cause severe damage to the AC adapter or the instrument, and it may cause electrical shock!



Only the AC adapter designed for this product should be used. If you cannot find the right adapter or the adapter does not work, please contact local CME dealers. The usage of an improper adapter may cause fire or electrical shock!



The AC adapter varies from country to country. If you take the product from one country to another, please make sure your AC adapter compliant with the local power supply. If you are not sure about the technical information for the power supply or the adapter, you can consult a qualified local electrical engineer.

2.2 Power on order

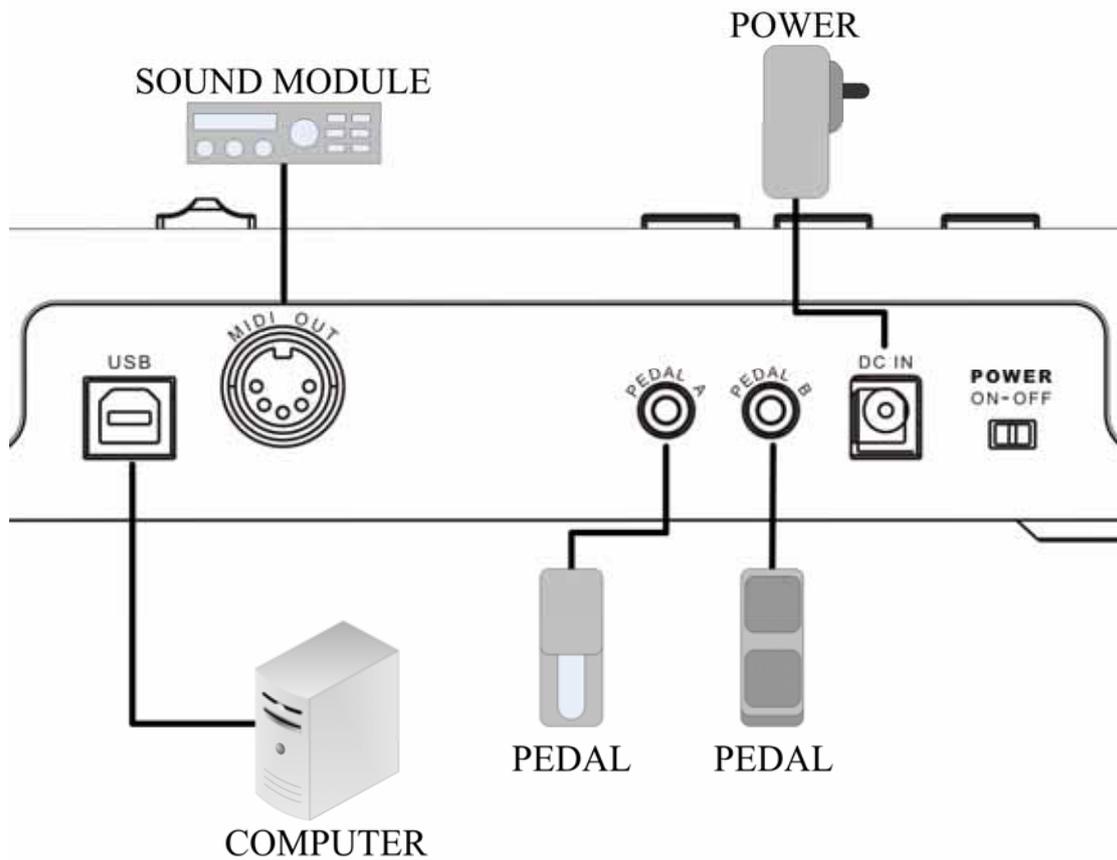
When you have this product connected to a system, please set all the volume to minimum then follow the proper order to turn all the devices on: master MIDI device (which sends out MIDI data), slave MIDI device (which receives MIDI data), audio devices (mixer, amplifier, speakers). When you follow this order, all the signals (MIDI and audio) will go properly from the beginning to the end. If you will turn off the system, please follow the reverse order (turn off the audio devices first, then the MIDI devices).

3 Connections



Before you make these connections, please turn off all devices to avoid possible damage.

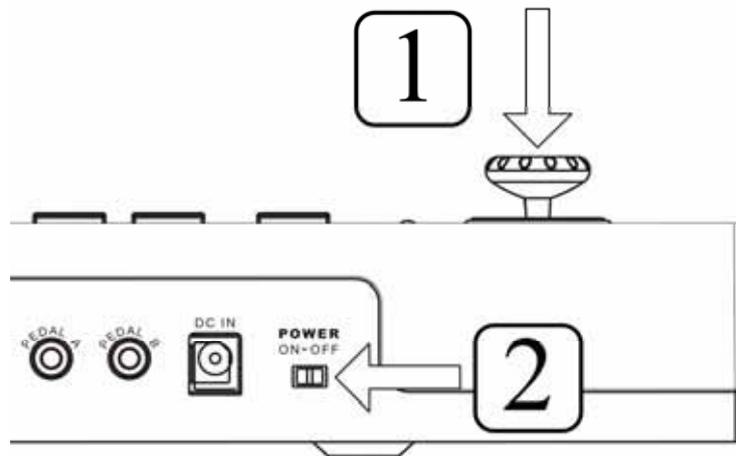
Please refer to the fig. below to make connections:



4 Turning on

4.1 Normally turning on

- Set the power switch on the rear panel to ON to turn on this product.
- By default, this product is set to work with WINDOWS XP / Mac OSX. To make it work with WINDOWS VISTA, please press down and hold the joystick and turn it on, and you will see the DATA button flashes for 5 times. To make it work with WINDOWS XP / Mac OSX again, please do the above operation again, and you will see the SHIFT button flashes for 5 times.



4.2 Driver installation

- After you connect this product to your computer via USB and turn the product on, the computer will find it device and install the driver automatically.
- You can plug and play this product on WINDOWS XP/VISTA or Mac OSX.
- When the driver installation is finished, this product will be recognized as the "USB Audio Device" or "CME M-KEY".
- The MIDI driver offers 1 USB IN and 1 USB OUT.



Sometimes you may need to restart your computer during the driver installation. Please follow the on-screen instructions.

4.3 Turning on with initialization

- If you press and hold both **[- DATA]** and **[DATA +]** buttons while turning on this product, it will enter the initialization process and return to the normal mode after the initializing is finished.



The initializing operation will clear all the user settings, please be careful !

5 Basic functions

5.1 Adjusting volume

- You can use the slider to send the volume control message CC#7 to adjust volume.



You can change the function of the slider by assigning it to another kind of MIDI message. (6.2)

5.2 Transpose and octave

- Octave
 - By default, you can use the **[- DATA +]** button for octave shift.
 - When the octave is shifted, the related button indicator will be on.
 - The octave shift range is -03 ~ 00 ~ 03. Press the two DATA buttons at the same time will set the octave shift to 00, and the indicator will be off.



You can use the keyboard function **【Data Transpose】**, **【Data Bank MSB】**, **【Data Bank LSB】**, **【Data Program】**, **【Data Channel】** to define the **[- DATA +]** buttons.

- Transpose :
 - Press and hold down the SHIFT button while use the **[- DATA +]** buttons, You can shift the keyboard pitch in semi-notes.
 - When the transpose value is changed, the related button indicator will flash slowly.
 - The transpose range is -12 ~ 00 ~ 12 semi-notes. Hold the SHIFT button and press the two DATA buttons at the same time will set the transpose to 00, and the indicator will be off.

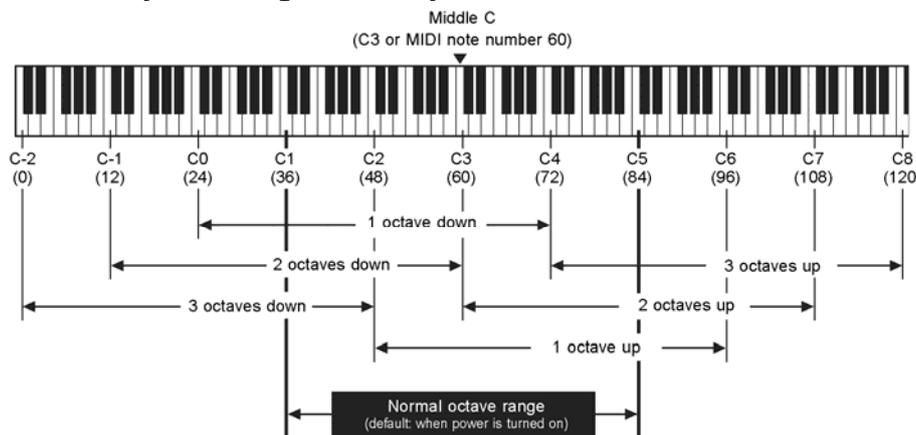


When both octave and transpose values are changed, the related buttons will flash quickly.



You can also use the keyboard function **【Data Octave】** and **【Data Transpose】** to set the octave/transpose value.

- The default keyboard ranges of M-Key are listed below:



5.3 Working with the joystick

- Move the joystick to the left/right to send the PITCHBEND message.
- Move the joystick upward to send CC#1 (MODULATION) message.
- Move the joystick downward to send the AFTER TOUCH message.



You can use the **【ASSIGN JOYSTICK】** command to define the downward joystick message. (6.1).

5.4 Pedal

- For the two pedal jacks, each one can be used for continuous pedal (e.g volume pedal) or switch pedal (e.g sustain pedal).
- By default, PEDAL A is for sustain pedal and send CC#64 message, the data value is either 0 or 127 (switch data); PEDAL B is for volume pedal and send CC#11 message, the data range is 0-127 (continuous data).
- To change pedal type or polarity, please use the system settings function (7.2-7.3).



You can customize the MIDI data to be sent using the **【ASSIGN PEDAL】** command (6.3).

5.5 Selecting a voice

5.5.1 Bank MSB Select

- Operation : **【SHIFT】** ⇒ G1 **【Bank MSB Select】** ⇒ **【Set value】** ⇒ **【ENTER】**
- MIDI message sent : CC#0 + CC#32 + Program
- Default value : 0
- Value range : 0-127



In the above operation, **【SHIFT】** means press the **【SHIFT】** button and its indicator is on; G1 **【Bank MSB Select】** means press the G1 key in the keyboard; **【Set value】** means using the number keys in the keyboard to enter the value; **【ENTER】** means press the ENTER key in the keyboard.



Before use the **【ENTER】** key to confirm the operation, you can press the **【SHIFT】** button again to turn off its indicator, and the operation is cancelled.



During the operation, the **【SHIFT】** indicator will flash to show the operation status: one time flash means data changed; two times flash means data out-of-range and not changed; three times flash means data confirmed or sent.

5.5.2 Bank LSB Select

- Operation : **【SHIFT】** ⇒ A1 **【Bank LSB Select】** ⇒ **【Set value】** ⇒ **【ENTER】**

- MIDI message sent : CC#0 + CC#32 + Program
- Default value : 0
- Value range : 0-127

5.5.3 Program Change

- Operation : 【SHIFT】 ⇒ B1 【Program Change】 ⇒ 【Set value】 ⇒ 【ENTER】
- MIDI message sent : CC#0 + CC#32 + Program
- Default value : 1
- Value range : 1-128



You can finish setting all the three values then press【ENTER】to send the data.

5.6 Keyboard Channel

- Operation : 【SHIFT】 ⇒ A#4 【Keyboard Channel】 ⇒ 【Set value】 ⇒ 【ENTER】
- Default value : 1
- Value range : 1-16



The keyboard channel also affect the MIDI channel of the joystick, pedals and slider.

5.7 Reset

- You can reset the external MIDI device by sending a MIDI reset message.

Name	Key	MIDI message sent
GM On	B2	F0 7E 7F 09 01 F7
GM2 On	C3	F0 7E 7F 09 03 F7
Reset All Control	C#3	CC#121
GS On	D3	F0 41 10 42 12 40 00 7F 00 41 F7
All Notes Off	D#3	CC#123
XG On	E3	F0 43 10 4C 00 00 7E 00 F7
CME On	F3	F0 00 20 63 00 00 00 00 7F F7



Please make sure your MIDI device support the related MIDI reset message before using this function.

6 ASSIGNING

6.1 Assigning Joystick

- Operation : 【SHIFT】 ⇒ C#4 【Assign Joystick】 ⇒ 【Set value】 ⇒ 【ENTER】
- Value (controller#) range : 0-145
- The center position of the joystick will send data 0, and the lowest position will send data 127.
- Please refer to the appendix 8.1<Assignable controller list> for more detail.

6.2 Assigning Slider

- Operation : 【SHIFT】 ⇒ D#4 【Assign Slider】 ⇒ 【Set value】 ⇒ 【ENTER】
- Value (controller#) range : 0-146
- The most left position of the slider will send data 0, and the most right position will send data 127.
- Please refer to the appendix 8.1<Assignable controller list> for more detail.

6.3 Assigning Pedal

- Assigning pedal A : 【SHIFT】 ⇒ F#4 【Assign Pedal A】 ⇒ 【Set value】 ⇒ 【ENTER】
- Assigning pedal B : 【SHIFT】 ⇒ G#4 【Assign Pedal B】 ⇒ 【Set value】 ⇒ 【ENTER】
- Value (controller#) range : 0-163
- Please refer to the appendix 8.1<Assignable controller list> for more detail.



You can change the pedal polarity. (7.2)

6.4 Assigning DATA Button

You can assign the 【- DATA +】 buttons to one of the following functions:

- Octave shift (default) : 【SHIFT】 ⇒ C#1 【DATA-Octave】
- Transpose : 【SHIFT】 ⇒ D#1 【DATA-Transpose】
- Bank MSB : 【SHIFT】 ⇒ F#1 【DATA-Bank MSB】
- Bank LSB : 【SHIFT】 ⇒ G#1 【DATA-Bank LSB】
- Program change : 【SHIFT】 ⇒ A#1 【DATA-Program】
- Channel : 【SHIFT】 ⇒ C#2 【DATA-Channel】

7 SYSTEM settings

7.1 Velocity Curve

- You can try different velocity curves to find your favorite one and get the best touch response for the voice being played.
- Velocity Curve 1 : 【SHIFT】 ⇒ C1 【Velocity Curve1】 (Normal)
- Velocity Curve 2 : 【SHIFT】 ⇒ D1 【Velocity Curve2】 (Soft)
- Velocity Curve 3 : 【SHIFT】 ⇒ E1 【Velocity Curve3】 (Hard)
- Velocity Curve 4 : 【SHIFT】 ⇒ F1 【Velocity Curve4】 (Expand)

7.2 Pedal Polarity

- You can set the pedal A polarity to make it work properly.
- To set pedal A polarity : 【SHIFT】 ⇒ C2 【Pedal A Polarity】
- To set pedal B polarity : 【SHIFT】 ⇒ D2 【Pedal B Polarity】

7.3 Pedal Type

- If you change pedal type from switch to continuous or vice versa, please set the proper pedal type.
- Setting pedal A type to switch : 【SHIFT】 ⇒ E2 【Pedal A Switch】
- Setting pedal A type to continuous : 【SHIFT】 ⇒ F2 【Pedal A Continuous】
- Setting pedal B type to switch : 【SHIFT】 ⇒ G2 【Pedal B Switch】
- Setting pedal B type to continuous : 【SHIFT】 ⇒ A2 【Pedal B Continuous】

7.4 USB to MIDI Out

- The data sent to the instrument MIDI out can be either from the instrument or from the computer USB out.
- Operation : 【SHIFT】 ⇒ D#2 【MIDI Out From USB】



Please refer to appendix 8.4<MIDI route>.

8 Appendix

8.1 Assignable controller list

Cont#	Name
000	Bank Select
001	Modulation wheel
002	Breath control
003	Undefined
004	Foot controller
005	Portamento time
006	Data Entry
007	Channel Volume
008	Balance
009	Undefined
010	Pan
011	Expression
012	Effect control 1
013	Effect control 2
014-015	Undefined
016-019	General Purpose
020-031	Undefined
032	Bank Select
033	Modulation wheel
034	Breath control
035	Undefined
036	Foot controller
037	Portamento time
038	Data entry
039	Channel Volume
040	Balance
041	Undefined
042	Pan
043	Expression
044	Effect control 1
045	Effect control 2
046-047	Undefined
048-051	General Purpose
052-063	Undefined
064	Damper pedal
065	Portamento on/off
066	Sostenuto on/off

Cont#	Name
067	Soft pedal on/off
068	Legato Footswitch
069	Hold 2
070	Sound Variation
071	Timbre/Harmonic Intens.
072	Release Time
073	Attack Time
074	Brightness
075	Decay Time
076	Vibrato Rate)
077	Vibrato Depth
078	Vibrato Delay
079	Sound Cont.
080-083	General Purpose
084	Portamento Control
085-090	Undefined
091	Reverb Send Level
092	Tremolo Depth
093	Chorus Send Level
094	Celeste/Detune Depth
095	Phaser Depth
096	Data entry +1
097	Data entry -1
098	NRPN LSB
099	NRPN MSB
100	RPN LSB
101	RPN MSB
102-119	Undefined
120	All Sound Off
121	Reset All Controllers
122	Local control on/off
123	All notes off
124	Omni mode off
125	Omni mode on
126	Poly mode off
127	Poly mode on

128	Pitch Bend
129	Pitch Bend Sensitivity
130	Fine Tuning
131	Coarse Tuning
132	Vibrato Rate
133	Vibrato Depth
134	Vibrato Delay
135	Low Pass Filter Cutoff Frequency
136	Low Pass Filter Resonance
137	High Pass Filter Cutoff Frequency
138	EQ Low Gain
139	EQ High Gain
140	EQ Low Frequency
141	EQ High Frequency
142	EG Attack Time
143	EG Decay Time
144	EG Release Time
145	After Touch

146 *	ProgramChange
147 **	Start (MTC)
148 **	Continue (MTC)
149 **	Stop (MTC)
150 **	System Reset (MTC)
151 **	Stop (MMC)
152 **	PLAY (MMC)
153 **	DEFERRED PLAY
154 **	FORWARD (MMC)
155 **	REWIND (MMC)
156 **	RECORD STROBE (MMC)
157 **	RECORD EXIT (MMC)
158 **	RECORD PAUSE (MMC)
159 **	PAUSE (MMC)
160 **	EJECT (MMC)
161 **	CHASE (MMC)
162 **	COMMAND ERROR RESET (MMC)
163 **	MMC RESET (MMC)

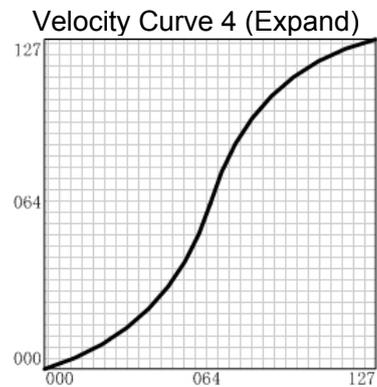
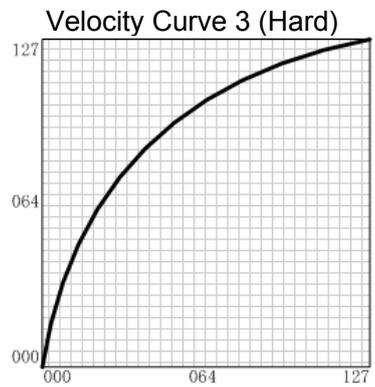
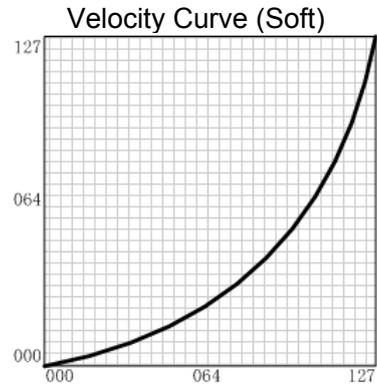
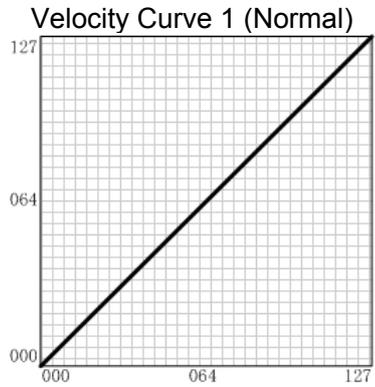
* Those controllers cannot be assigned to the joystick.

** Those controllers cannot be assigned to the joystick or faders.

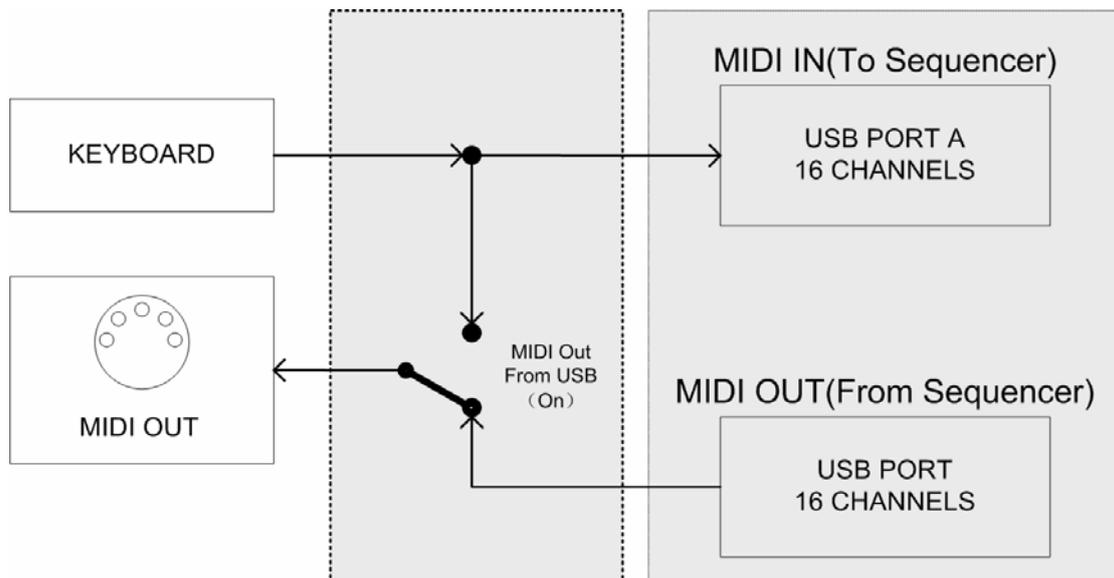
8.2 GM voice list

Voice#	Name	Voice#	Name	Voice#	Name	Voice#	Name
001	GrandPno	033	Aco.Bass	065	SprnoSax	097	Rain
002	BritePno	034	FngrBass	066	Alto Sax	098	SoundTrk
003	El.Grand	035	PickBass	067	TenorSax	099	Crystal
004	HnkyTonk	036	Fretless	068	Bari.Sax	100	Atmosphr
005	E.Piano1	037	SlapBas1	069	Oboe	101	Bright
006	E.Piano2	038	SlapBas2	070	Eng.Horn	102	Goblins
007	Harpsi.	039	SynBass1	071	Bassoon	103	Echoes
008	Clavi	040	SynBass2	072	Clarinet	104	Sci-Fi
009	Celesta	041	Violin	073	Piccolo	105	Sitar
010	Glocken	042	Viola	074	Flute	106	Banjo
011	MusicBox	043	Cello	075	Recorder	107	Shamisen
012	Vibes	044	Contrabs	076	PanFlute	108	Koto
013	Marimba	045	Trem.Str	077	Bottle	109	Kalimba
014	Xylophon	046	Pizz.Str	078	Shakhchi	110	Bagpipe
015	TubulBel	047	Harp	079	Whistle	111	Fiddle
016	Dulcimer	048	Timpani	080	Ocarina	112	Shanai
017	DrawOrgn	049	Strings1	081	SquareLd	113	TnkBell
018	PercOrgn	050	Strings2	082	Saw Lead	114	Agogo
019	RockOrgn	051	Syn Str1	083	CaliopLd	115	SteelDrm
020	ChrchOrg	052	Syn Str2	084	Chiff Ld	116	WoodBlok
021	ReedOrgn	053	ChiorAah	085	CharanLd	117	TaikoDrm
022	Acordion	054	VoiceOoh	086	Voice Ld	118	MelodTom
023	Harmnica	055	SynVoice	087	Fifth Ld	119	Syn Drum
024	TangoAcd	056	Orch.Hit	088	Bass&Ld	120	RevCymbI
025	NylonGtr	057	Trumpet	089	NewAgePad	121	FretNoiz
026	SteelGtr	058	Trombone	090	Warm Pad	122	BrthNoiz
027	Jazz Gtr	059	Tuba	091	PolySyPd	123	Seashore
028	CleanGtr	060	Mute Trp	092	ChoirPad	124	Tweet
029	Mute.Gtr	061	Fr. Horn	093	BowedPad	125	Telephone
030	Ovrdrive	062	BrasSect	094	MetalPad	126	Helicptr
031	Dist.Gtr	063	SynBrss1	095	Halo Pad	127	Applause
032	GtrHarmo	064	SynBrss2	096	SweepPad	128	Gunshot

8.3 Velocity curve list



8.4 MIDI route



9 Troubleshooting

Trouble with possible reasons and solution

- After turning on the power switch, the instrument is not powered on:
 1. Make sure the USB connection is made the the computer is on.
 2. Make sure the power connector is firmly connected to the power outlet.
 3. Check the power connectors.
- No sound when playing the instrument
 1. Check the volume settings of the tone generator and speaker system
 2. Check the MIDI connection and the audio cable
 3. Check Master and Channel Volume faders
 4. Check Channel Expression Knobs
 5. Check the attack time of the filter
 6. Make sure you have the right settings in you music software
 7. Check the MIDI route settings
- Continuous long sound:
 1. Check Sustain pedal (Damper pedal)
 2. Check the release time of the filter
 3. Use All notes off or Reset
- Improper voice
 1. Tone generator not set properly , please Initialize or Reset..
- Wrong pitch
 1. Check the transpose or octave settings.
 2. MIDI pitch is tuned.
 3. Pitch bend message not returned to default, please reset.
- Some functions do not work
 1. Check the parts assigning.
 2. It is possible that your tone generator or music software does not support those functions
- Cannot select voice

Read the data list of your tone generator for voice select detail, and properly set the tone BANK MSB and LSB

10 Specifications

- Keyboard
 - ◇ M-Key : 49 keys(C1 - C5), (velocity sensitive)
- Functions
 - ◇ Basic functions: USB MIDI, Octave shift, Transpose, Joystick, Pedals, Breath control, MIDI OUT, Slider, Function buttons
 - ◇ MIDI Data: Bank select, Program change, GM System On, GS System on, XG System On, Control change, All Notes Off, etc.
 - ◇ Parameters: Transpose, Octave, MIDI out channels, Velocity curve, Pitch bend, Moulation, Brightness, etc.
- Panel Controls and Indicators
 - ◇ Function buttons with light x 2
 - ◇ Slider x 1, SHIFT button with light x 1
 - ◇ Joystick x 1
- Display
 - ◇ LED indicator for power/signal
- Input/Output Terminals
 - ◇ POWER ON/OFF switch x 1
 - ◇ POWER IN connector x 1
 - ◇ USB port x1
 - ◇ PEDAL jack x 2
 - ◇ MIDI OUT port x 1
- Power Supply
 - ◇ USB bus power or AC Power Adapter (Optional)
 - ◇ AC Power Adapter requirement: 9V 500mA
- Dimensions (W x D x H) and Weight :
 - ◇ M-Key : 726.5 x 210 x 58.3 mm, 3.2 kg

* Specifications and appearance are subject to change without notice.

11 MIDI Implementation Chart

CME M-Key (MIDI KEYBOARD)

Model: M-Key

MIDI Implementation chart

Ver: 1.0

Function		Transmitted	Recognized
Basic Channel	Default Changed	1 1~16	X
Mode	Default Messages Altered	X *****	X
Note Number:	True voice	0~127 *****	X
Velocity	Note ON	○ v=0~127	X
	Note OFF	○ v=0~127	X
Aftertouch	Key's	X	X
	Ch's	○	X
Pitch Bend		○	X
Control Change		0~127	X
Prog Change:	True #	○ *****	X
System Exclusive		○	○
System Real Time	Clock Commands	X ○	X X
System command	Song position	X	X
Aux Messages	Active Sense	X	X

○: Yes X: No

- CME is continually improving its products, and every attempt is made to ensure the information in the user's manual is current and accurate. However, CME will not be responsible for possible discrepancies between the manual and the real product.



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