Synido

Follow us for the latest news:

Synido.com @SynidoTech @SynidoTech

关注我们，最新资讯、活动一网打尽：

哔哩哔哩
Synido

官方微博
Synido

微信公众号
Synido

Synido

TempoKEY K25

USER MANUAL

MIDI Keyboard Controller

CONTENTS 目录

P1 / WELCOME

P2 / PACKING LIST

P3 / PANEL DESCRIPTION

P5 / OPERATING GUIDE

P12/ DESCRIPTION OF SUPPORTING SOFTWARE

P16 / PRODUCT SPECIFICATION

P17 / APPENDIX

P19 / 欢迎

P20 / 包装清单

P21 / 面板说明

P23 / 使用说明

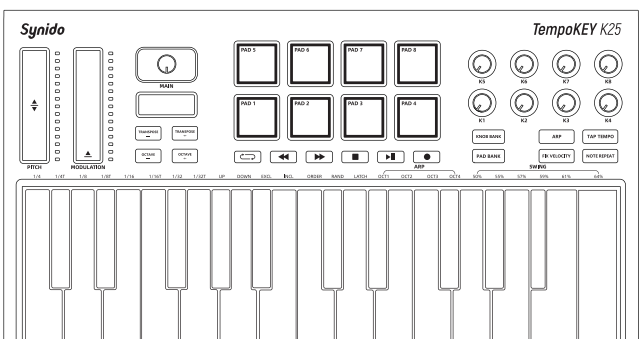
P30 / 配套软件说明

P34 / 产品规格

P35 / 附录

WELCOME

Welcome to Synido TempoKEY product. TempoKEY is a keyboard controller based on the MIDI protocol. When connected to your computer's DAW software, you canrecord and edit notes, adjust various effect parameters, and practice your playing skills. It enables real-time performance and music creation to increase productivity. Whether you're a professional music producer or an enthusiast, TempoKEY is a great companion for learning, creating and performing. It's important to note that this device only outputs MIDI commands and does not produce sound. Users should have some knowledge of music in order to use it effectively.

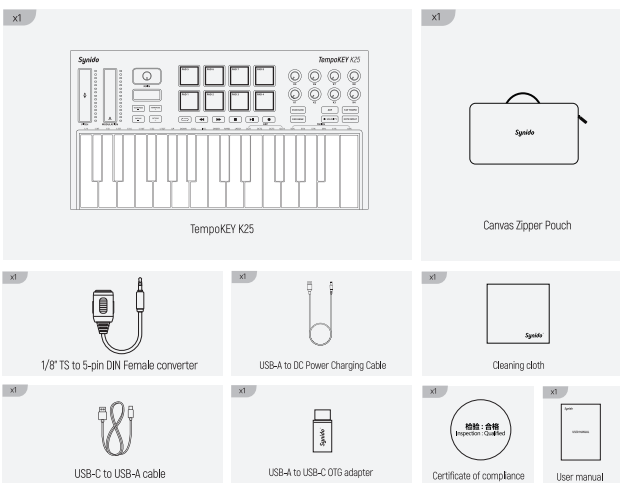


Features:

- 25 velocity-sensitive keys for playing virtual sampler instruments.
- 8 velocity-sensitive backlit pads with note repeat function for beat production, switchable 2 drum kits, freely assign Note, CC and PC messages.
- 8 poled knobs, grouped in 2 as 16 controllers for sending CC, PC, and channel aftertouch messages.
- OLED display for visualizing hardware function parameters, with 1 knob that can be parameter-adjusted.

- 6 transport control buttons for loop, rewind, fast forward, stop, play/pause, and record.
- Built-in arpeggiator, pitch bend + modulation touch strip, octave and chromatic transpose.
- USB-C connection port, DC-5V power port, sustain pedal input, and 1/8"TRS (3.5mm) MIDI output.
- Comes with supporting computer control software for visual access to assigning functions on the device.

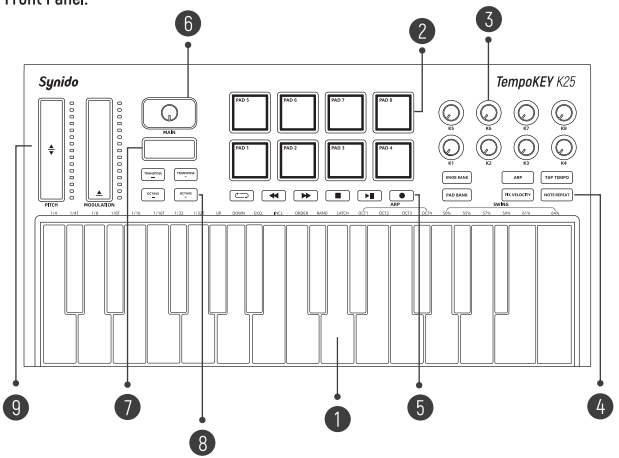
PACKING LIST



Scan the QR
Register your product for exclusive benefits!

PANEL DESCRIPTION

Front Panel:



1. Keyboard: The 25 velocity-sensitive piano keys send MIDI note commands when pressed. Combined with the octave up/down buttons, they can control a range of 10 octaves.

2. Pads: The 8 velocity-sensitive pads send MIDI commands when struck. There are two custom groups for the pads, providing 16 possible commands.

3. Assignable Knobs: The 8 potentiometer rotary knobs are assignable for sending MIDI commands. They also have two custom groups, resulting in 16 possible commands.

4. Function Control Buttons:

KNOB BANK: Switches between two groups of rotary knob functions.
PAD BANK: Switches between two groups of pad functions.
ARP: Activates/Deactivates the arpeggiator function.
NOTE REPEAT: Activates/Deactivates the note repeat function.
TAP TEMPO: Sets the tempo for the arpeggiator and note repeat functions.
FIX VELOCITY: Enables/Disables full velocity mode for consistent note velocity.

5. Tape Transport Control Buttons:

The 6 backlit tape transport control buttons can send CC or MMC commands. You can set these commands on the device or using the supplied software.

6. Master Control Knob:

Adjusts the master volume and can be used in combination with other function buttons to set various functions for the pitch bend, modulation, keyboard, pads, knobs, and tape transport controls.

7. Display Screen:

The display screen can show TempoKEY's parameter settings. By default, it displays the Synido brand logo. The display updates with each operation as a node,showing relevant information based on user interactions. If there is no user interaction, the display remains unchanged, displaying the Synido brand logo.

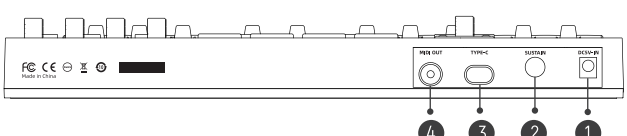
8.Transpose Adjustment Buttons:

Use TRANSPOSE to adjust the keyboard's chromatic transposition and OCTAVE for octave transposition. Use the +/- buttons to move up or down.

9.Pitch Bend/Modulation Touch Strip:

You can control the pitch and modulation effect of the keyboard by sliding your finger up and down on the touch strip.

Back Panel:



1. DC-5V: Power supply input, providing power only (no data exchange).

2. Sustain Pedal Input: Connect a 1/4-inch TS sustain pedal to this port (optional).

3. USB-C Port: Connect this USB port to your computer using a USB Type-C cable. Your computer's USB port will provide power to the TempoPAD and exchange data.

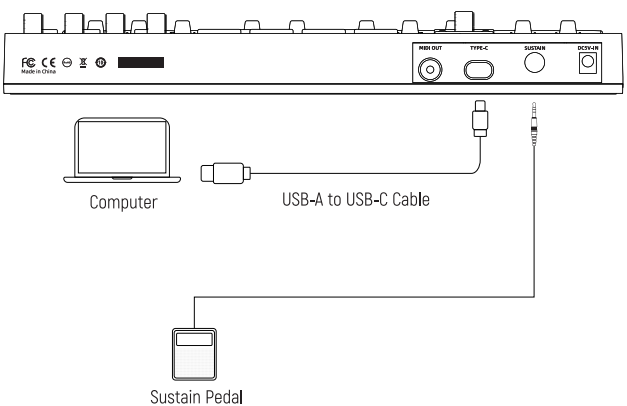
4. MIDI OUT: 3.5mm interface for standard MIDI protocol output, requires a TS to 5-pin DIN converter cable.

OPERATING GUIDE

Connections:

1. Use the provided USB-A to USB-C cable to connect the product directly to your computer.
2. Open your DAW software.
3. In DAW Preferences/Options/Device Setup, select Synido TempoKEY as the input and output device.

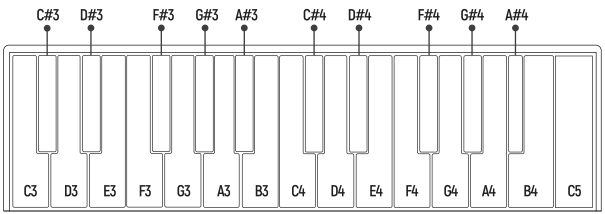
Your TempoKEY K25 is now ready to communicate with your DAW software.



Note: If you would like to use a sustain pedal device, you will need to purchase the sustain pedal separately.

KeyS:

Synido TempoKEY K25 features 25 piano keys spanning two octaves. The corresponding note information from left to right is as shown in the figure:



Note:

Due to different DAW software defining the middle C on the piano roll with varying standards, the transmitted note information may not align perfectly with the display in the DAW software.

The velocity sensitivity has three modes of feedback, as shown in the figure below, with LINEAR being the default mode:

1.LOG: LOGARITHMIC velocity feedback, suitable for performers who prefer playing with a lighter touch, as it produces higher velocity values with a gentle press.

2. LIN: LINEAR velocity feedback, suitable for most music and performers.

3. EXP: EXPONENTIAL velocity feedback, suitable for performers who prefer playing with more force, as it requires harder strikes to achieve higher velocity values.

The velocity sensitivity applies to both piano keys and pads and can be customized. You can adjust the sensitivity settings directly on the device (hold the master control knob and press any key, then rotate the knob to adjust the setting, press the knob again to save), or use the Synido MIDI software to set and save the configuration to the device. However, please note that the velocity sensitivity for the pads can only be adjusted using the Synido MIDI software.

PADS:

TempoKEY K25's pads consist of 8 pads that can send NOTE, CC, and PC information. There are two PAD BANKs available, allowing you to set 16 different parameter configurations. You can adjust these settings directly on the device (press hold the master control knob and press the desired PAD1-PAD8, then rotate the knob to adjust the setting, press the knob again to save) or use the Synido MIDI software to set and save the configuration to the device. The pads are backlit with two colors, with BANK A showing white light and BANK B showing orange light.

By default, the pads send NOTE information as shown in the figure:

BANKA	PAD	PAD5	PAD6	PAD7	PAD8
	NOTE	40	41	42	43
	PAD	PAD1	PAD2	PAD3	PAD4
	NOTE	36	37	38	39
BANKB	PAD	PAD5	PAD6	PAD7	PAD8
	NOTE	48	49	50	51
	PAD	PAD1	PAD2	PAD3	PAD4
	NOTE	44	45	46	47

Knobs:

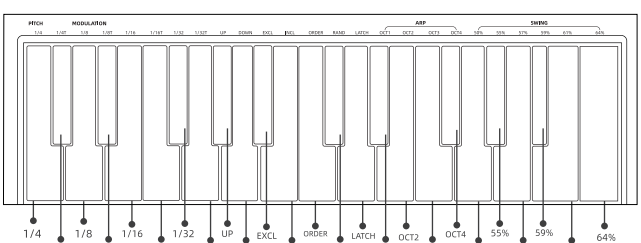
There are 8 customizable step knobs on the Synido TempoKEY K25, which can send CC, PC, and CHN TOUCH (channel aftertouch) messages. These knobs are organized into two KNOB BANKs, allowing you to set 16 different parameter configurations. You can set this directly on the device (press and hold the master control knob and rotate to select the desired K1-K8, then rotate the knob to adjust the setting, press the knob again to save) or use the Synido MIDI software to set and save the configuration to the device. The knobs are backlit with two colors, with BANK A showing white light and BANK B showing orange light.

By default, the knobs send CC messages as shown in the figure:

BANK A	Knob	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	CC Number#	CC#01	CC#02	CC#03	CC#04	CC#05	CC#06	CC#07	CC#08
	Channel	1	1	1	1	1	1	1	1
	Min	0	0	0	0	0	0	0	0
	Max	127	127	127	127	127	127	127	127
BANK B	Knob	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	CC Number#	CC#09	CC#10	CC#11	CC#12	CC#13	CC#14	CC#15	CC#16
	Channel	1	1	1	1	1	1	1	1
	Min	0	0	0	0	0	0	0	0
	Max	127	127	127	127	127	127	127	127

Function buttons:

1. ARP: This button activates/deactivates the arpeggiator.
Pressing ARP and a key on TempoKEY K25's keyboard (corresponding to the labeled text above the keys) allows you to input new arpeggiator settings.



-Time DIV: 1/4 note, 1/4 note triplet (1/4 T), 1/8 note, 1/8 note triplet (1/8 T), 1/16 note, 1/16 note triplet (1/16 T), or 1/32 note or triplet (1/32 T).
-UP: Notes will be played from the lowest to the highest pitch.
-DOWN: Notes will be played from the highest to the lowest pitch.
-EXCL: The notes will ascend from the lowest to the highest, and then descend again. When the direction changes, the lowest and highest notes will only sound once.

-INCL: The notes will ascend from the lowest to the highest, and then descend again. When the direction changes, the lowest and highest notes will sound twice.
-ORDER: Notes will be played in the order they were pressed.
-RAND: Notes will be played in the random order.
-LATCH: Even if you release your fingers, the arpeggiator will continue arpeggiating the notes. While holding a key, you can add more notes to the arpeggio by pressing other keys. If you press keys, release them, and then press new combinations of notes, the arpeggiator will remember and arpeggiate the new notes.
-ARP OCT1-OCT4: Controls the octave range of the arpeggiated notes, with OCT1 as the default setting.
-SWING: Swing value setting, 50% (off, no swing), 57%, 59%, 61%, 64%.

2.TAP TEMPO: Tap this button at the desired rate to determine the arpeggiator and note repeat's tempo, and the display screen will show the current tempo value. If NOTE REPEAT or Arpeggiator (ARP) functions are active, the LED light below this button will flash at a speed corresponding to the tempo. By continuously tapping the button several times, the device will measure the speed, and the LED light will flash in sync with the user's tapping speed, indicating that the setting is complete.

3.NOTE REPEAT: Press this button to activate or deactivate the NOTE REPEAT mode. In this mode, striking the pads will trigger them again based on the current arpeggiator's speed, timing, and swing settings.

4.FIX VELOCITY: This button ignores the actual playing velocity and sends notes at a fixed velocity (default 127). It applies to both the pads and the keyboard. You can set this directly on the device (press and hold the master control knob and press the FULL VELOCITY button, then rotate the knob to adjust the setting, press the knob again to save) or use the Synido MIDI software to set and save the configuration. You can choose the affected area: only the pads (PADS), only the keyboard (KEYS), or both the pads and keyboard (PADS & KEYS), and you can change the fixed velocity value.

5.KNOB BANK: Switches between the two groups of rotary knob functions. It is distinguished by the backlit color, with BANK A showing white light and BANK B showing orange light.

6.PAD BANK: Switches between the two groups of pad functions. It is distinguished by the backlit color, with BANK A showing white light and BANK B showing orange light.

Transport buttons :

TempoKEY K25 has 6 backlit tape transport control buttons: rewind, fast forward, play/pause, stop, loop, and record. Pressing these buttons can send CC or MMC events. You can set this directly on the device (press and hold the master control knob and press the desired transport button, then rotate the knob to adjust the setting, press the knob again to save) or use the Synido MIDI software to set and save the configuration.

If the device sends MMC (MIDI Machine Control) events, you need to enable MMC reception in your DAW software to receive and respond to these events.

If the device sends CC (Control Change) events, you must configure the mapping in your computer's DAW software to control the corresponding functions. If you do not assign functions in the host software, the buttons or controls on the device may not be able to perform their intended control actions.

Note:
MMC commands do not include the corresponding functionality for LOOP looping, so the LOOP button will only send CC events.

By default, pressing buttons will send CC (Control Change) events. Here is the table showing the default CC events sent by each button:

	Loop	Fast Backward	Fast Forward	Stop	Play/Pause	Record
CC Number#	21	22	23	24	25	26
Chanmel	1	1	1	1	1	1
Mode	Toggle	Momentary	Momentary	Momentary	Toggle	Toggle

Transpose Adjustment Buttons :

TempoKEY K25 supports TRANSPOSE for chromatic transposition and OCTAVE for octave adjustment. Use the + and - buttons to change the pitch range of the keyboard. The TRANSPOSE function allows a range of -6 to +6 semitones, and pressing the + and - buttons simultaneously will reset it to zero. The OCTAVE function has an adjustable range of -4 to +4 octaves, and pressing the + and - buttons simultaneously will reset it to the standard octave.

Pitch Bend/Modulation Touch Strip :

PITCH: Pitch Bend function allows you to bend the pitch by touching and sliding your finger up or down on the touch strip, which sends MIDI PITCH BEND information. You have the option to enable or disable the auto-centering feature, and you can adjust the auto-centering time. You can set this directly on the device (press and hold the master control knob and slide the PITCH touch strip, then rotate the knob to adjust the setting, press the knob again to save) or use the Synido MIDI software to set and save the configuration.

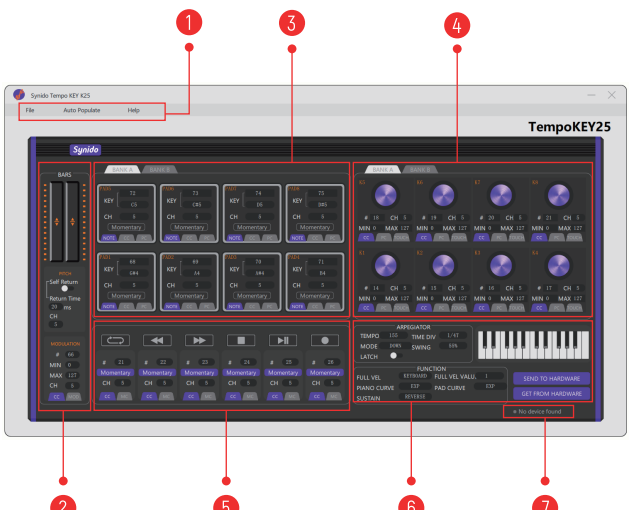
MODULATION: By touching and sliding your finger up or down on the touch strip, you can send continuous controller data CC#01 information (default) for modulation. Additionally, you have the flexibility to customize and send other CC information as well. You can set this on the device (press and hold the master control knob and slide the MODULATION touch strip, then rotate the knob to adjust the setting, press the knob again to save) or use the Synido MIDI software to set and save the configuration.

DESCRIPTION OF SUPPORTING SOFTWARE

Software Download And Installation:

There is a supporting software to edit, write, or read the configuration of the TempoKEY and thus the TempoKEY could generate various MIDI commands;
TThe download address of the supporting software is:
https://www.synido.com/pages/downldoads
After downloading, please run the program to install.

Software Interface:



1. Menu Bar
2. Pitch/Modulation Settings
3. Pad Settings
4. Knob Settings
5. Transport Button Settings
6. Function Button Settings and Hardware Parameter Retrieval/Sending
7. Connection Status Indicatorsnding

Device occupation (WINDOWS system only) :

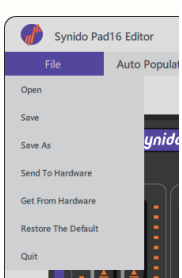
The connection status of the device is displayed at the lower right corner (7) of the software. Only when "Connected" is displayed, the software can write or read the configuration on the TempoKEY;

If "Connected" is displayed here, it means the software and TempoKEY is connected, and the software can transfer the configuration with the device;

If "Not Connected" is displayed here, it may be because the device is not normally connected to the computer, or DAW is occupying the device at this time; You need to exit the DAW or other programs that are occupying the TempoKEY, and sometimes you need to reconnect the device.

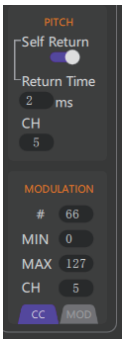
Menu:

The functions of the menu are: open, save, save as, send to hardware, get from hardware, restore to default, and exit.



Open: read a configuration file.
Save: Save the current parameter configuration in the current preset file. If there is no preset file, a dialog box will be opened to save it as a new file, which will be saved with the extension of .stm.
Save As: Saves the current configuration as a new preset file.
Send to Hardware: Send the current configuration to TempoKEY.
Get from Hardware: Get configuration from TempoKEY.
Restore Default Value: Restore to the factory default.
Exit: Exit the control panel.

Pitch/Modulation Settings:



In PITCH settings :
you can modify the channel, enable/disable auto-return, and adjust the auto-return time (range 0-127). When auto-return is disabled, the auto-return time cannot be adjusted.

In MODULATION settings:

Click on the label to select the information type, which can be CC or modulation information.
Input the minimum and maximum values to determine the touch strip's control range.
Select the information channel.

PAD Area:

Click the Save tab to switch among group A and B;

Click Channel to select the channel to send the event;

Click the PAD tab to select the event type: the optional types are: note, CC, and PC;

If you select a note event, enter a number in the key bar, or click the note name to adjust the pitch of the note; The momentary/Toggle function cannot be selected in note events;

If selecting CC events, enter the event number in the key bar;

If selecting PC events, enter the event number in the key bar; In PC event mode, the momentary/Toggle function is unavailable, and each time you press PAD, a PC event is sent;

Note: in momentary mode: when pressing a key, an event with a value of 127 will be sent, and when releasing the key, an event with a value of 0 will be sent; In latch mode: events with values of 127 and 0 will be sent alternately, every time you finish a press + release operation.

Transport Area:

Click the tag selection button to send CC events or MMC events;

Enter the event number;

Click the button to switch the function instant or switch (it cannot be adjusted when sending the MMC command);

Select the channel of the event;

Knob Area:

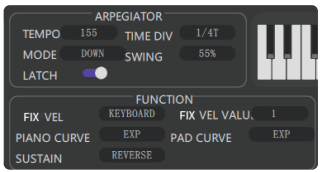
Click the Save tab to switch to the group to be edited;

Click the tag to select the event type. The optional types are: CC, channel aftertouch or pitch bend event;

Enter the minimum value and maximum value to determine the control range of the knob;

Select the channel of the event;

Function Key:



In the Arpeggiator function section, you can adjust the tempo, note duration, arpeggio type, swing value, and LATCH lock/cancel settings. The TEMPO setting can be adjusted from 30 to 280 BPM.

In the Function Adjustment section, you can set the affected area and velocity value for fixed velocity, velocity sensitivity type, and sustain pedal control function.

Firmware Upgrade:

Connect the device, until the software displays "Connected";

Click Help Menu About, and click firmware update in the dialog box opened;

PRODUCT SPECIFICATION

Product Model: TempoKEY K25	**Power Consumption:** 300mA
Color: Black + Purple	**Product Weight:** 960g
Material: Plastic + Silica Gel	**Product Size:** 344*183.3*46.3mm

CUSTOMER SUPPORT

For more FAQ, visit Support Center: **Synido.com/support**

or scan the QR code 👉

or **email us through cs@synido.com**

WORKING TIME: 9:00 - 18:00 (MONDAY TO FRIDAY, GMT+8)

APPENDIX

MIDI Event Interpretation:

Event: A MIDI command.

Channel: There are 16 channels in MIDI protocol, and most MIDI events contain channel information. Users can set on the receiving device to hear only the events from a certain channel. For example, device A only receives events from channel 1, and device B only receives events from channel 2. Then on the sending device, the user can send channel 1 events to control device A, and send channel 2 events to control device B.

CC Event: Controller Change event. A CC event contains the following information: channel number, CC number, and event value. MIDI protocol defines some specific CC numbering functions, for example, CC#7 event is the main volume event, and CC # 64 is the piano pedal event; Some CC commands are not defined functions, so users can define them as wish. See the appendix for the definition of CC events;
CC event can be a single command: for example, press a PAD and send a command of CC # 64 at value 127, and the receiving device will execute the action of opening the piano pedal after receiving the command; It can also be continual commands, such as rotating a knob to send events of CC # 7 with a value from 0 to 127. After receiving the command, the system will adjust the volume from the minimum to the maximum.

PC Event: Program Change event. It is also a kind of control command containing channel information and event numbers. It usually used for voice change.

Momentary: When a key (button) is pressed, an ON event is sent, and when a key (button) is released, an OFF event is sent; For example, when a pad is used to imitate the function of the piano keys, the "Note ON" command is sent when the pad is pressed, and the "Note OFF" command is sent when the pad is released.

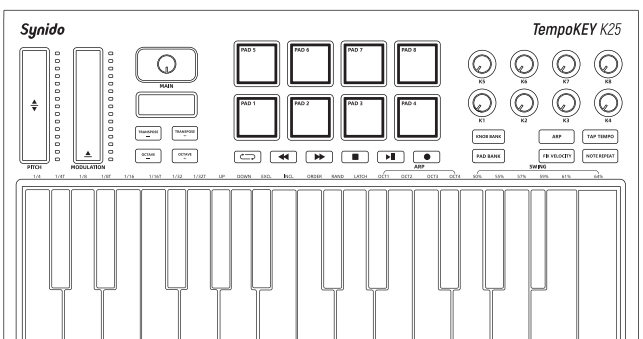
Toggle: When the full operation of pressing + releasing is completed, the ON and OFF events will be sent alternately; For example, it can be used as a switch. Each time you tap a pad, it alternately sends commands with values of 127 and 0. Set 127 as ON and 0 as OFF at the receiving end, the control effect can be achieved.

CC Default Event List:

CC 0 (BankSel MSB)
CC 1 (Modulation)
CC 2 (Breath)
CC 3 (Control 3)
CC 4 (Foot)
CC 5 (Portamento)
CC 6 (DataEnt MSB)
CC 7 (Main Volume)
CC 8 (Balance)
CC 9 (Control 9)
CC 10 (Pan)
CC 11 (Expression)
CC 12 (Control 12)
CC 13 (Control 13)
CC 14 (Control 14)
CC 15 (Control 15)
CC 16 (Gen Purp 1)
CC 17 (Gen Purp 2)
CC 18 (Gen Purp 3)
CC 19 (Gen Purp 4)
CC 20 (Control 20)
CC 21 (Control 21)
CC 22 (Control 22)
CC 23 (Control 23)
CC 24 (Control 24)
CC 25 (Control 25)
CC 26 (Control 26)
CC 27 (Control 27)
CC 28 (Control 28)
CC 29 (Control 29)
CC 30 (Control 30)
CC 31 (Control 31)
CC 32 (BankSel LSB)
CC 33 (Modulation LSB)
CC 34 (Breath LSB)
CC 35 (Control 35)
CC 36 (Foot LSB)
CC 37 (Porta LSB)
CC 38 (DataEnt LSB)
CC 39 (Main Volume LSR)
CC 40 (Balance LSB)
CC 41 (Control 41)
CC 42 (Pan LSB)
CC 43 (Expr LSB)
CC 44 (Control 44)
CC 45 (Control 45)
CC 46 (Control 46)
CC 47 (Control 47)
CC 48 (Control 48)
CC 49 (Control 49)
CC 50 (Control 50)
CC 51 (Control 51)
CC 52 (Control 52)
CC 53 (Control 53)
CC 54 (Control 54)
CC 55 (Control 55)
CC 56 (Control 56)
CC 57 (Control 57)
CC 58 (Control 58)
CC 59 (Control 59)
CC 60 (Control 60)
CC 61 (Control 61)
CC 62 (Control 62)
CC 63 (Control 63)
CC 64 (Sustain)
CC 65 (Porta On/Off)
CC 66 (Sostenuto)
CC 67 (Soft Pedal)
CC 68 (Legato FS)
CC 69 (Hold 2)
CC 70 (Sound Var)
CC 71 (Harmonic)
CC 72 (Release Time)
CC 73 (Attack Time)
CC 74 (Brightness)
CC 75 (Control 75)
CC 76 (Control 76)
CC 77 (Control 77)
CC 78 (Control 78)
CC 79 (Control 79)
CC 80 (Gen Purp 5)
CC 81 (Gen Purp 6)
CC 82 (Gen Purp 7)
CC 83 (Gen Purp 8)
CC 84 (Porta Ctrl)
CC 85 (Control 85)
CC 86 (Control 86)
CC 87 (Control 87)
CC 88 (Control 88)
CC 89 (Control 89)
CC 90 (Control 90)
CC 91 (ExtEff 1 Depth)
CC 92 (ExtEff 2 Depth)
CC 93 (ExtEff 3 Depth)
CC 94 (ExtEff 4 Depth)
CC 95 (ExtEff 5 Depth)
CC 96 (Data Incr)
CC 97 (Data Decr)
CC 98 (NRPN LSB)
CC 99 (NRPN MSB)
CC 100 (RPN LSB)
CC 101 (RPN MSB)
CC 102 (Control 102)
CC 103 (Control 103)
CC 104 (Control 104)
CC 105 (Control 105)
CC 106 (Control 106)
CC 107 (Control 107)
CC 108 (Control 108)
CC 109 (Control 109)
CC 110 (Control 110)
CC 111 (Control 111)
CC 112 (Control 112)
CC 113 (Control 113)
CC 114 (Control 114)
CC 115 (Control 115)
CC 116 (Control 116)
CC 117 (Control 117)
CC 118 (Control 118)
CC 119 (Control 119)
CC 120 (AllSndOff)
CC 121 (Reset Ctrl)
CC 122 (Local Ctrl)
CC 123 (AllNoteOff)
CC 124 (Omni Mode Off)
CC 125 (Omni Mode On)
CC 126 (Mono Mode On)
CC 127 (Poly Mode On)

欢迎

欢迎您选购本公司SYNIDO TempoKEY产品。TempoKEY 是一款基于MIDI协议的键盘控制器，使用它连接电脑DAW软件可以进行音符录制与编辑，调整各种效果参数，练习演奏技巧等。实现实时演奏和音乐创作以提升工作效率。无论您是专业音乐制人还是兴趣爱好者，它都将是您学习、创作、演奏上的好帮手。值得特别提醒的是这款设备仅输出MIDI指令而不会产生声音信号，用户需要具备一些相关音乐知识才能合理使用它。

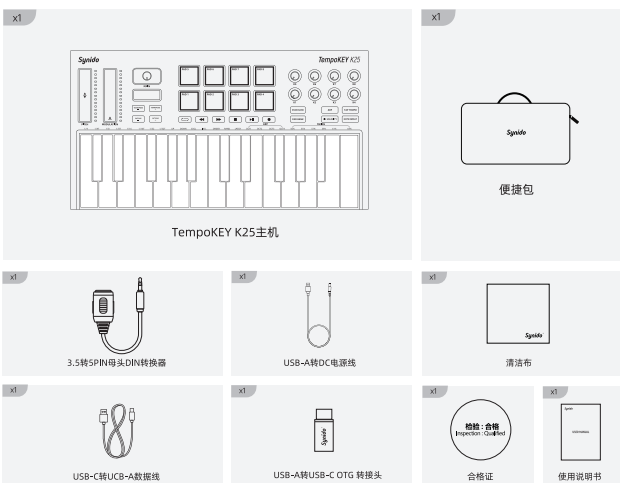


产品特点：

- 25个力度感应琴键，用于演奏虚拟采样器乐器
- 8个力度感应带背光打击垫，配有音符重复功能，用于节拍制作，可切换2个鼓组，自由分配Note、CC和PC信息
- 8个有极旋钮，可分2组作为16个控制器，用于发送CC、PC和通道触后信息
- OLED显示屏，硬件功能参数可视化，1个可按参数调节旋钮

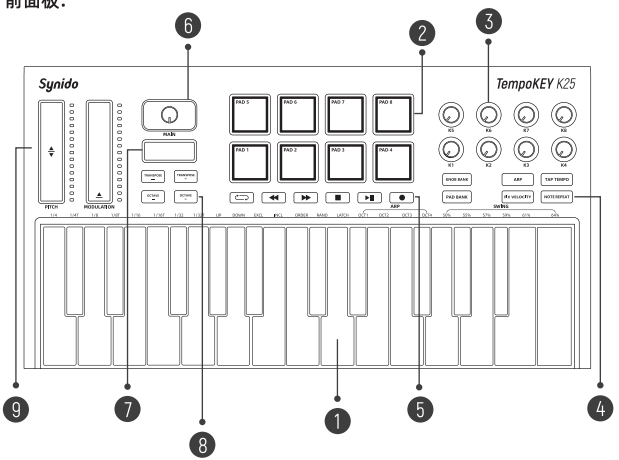
- 6个走带控制按钮，循环、后退、快进、停止、播放/暂停、录制
- 内置琶音器，弯音+调制触控条，八度移调与半音移调
- USB-C连接接口，DC-5V电源接口，延音踏板输入，1/8”TRS（3.5mm）MIDI输出
- 配套的电脑控制软件，可视化调整硬件上的功能分配

包装清单



面板说明

前面板：



1. 键盘： 25个力度感应琴键，按压琴键以发送MIDI 音符指令，配合八度上调/下调按钮，可以控制10个八度的范围。

2. 打击垫： 8个具有力度感应的打击垫。敲击打击垫以发送MIDI指令，打击垫有两个自定义分组，可实现16种指令。

3. 可分配旋钮： 8个可分配电位器旋钮。旋转旋钮以发送MIDI指令；旋钮有两个自定义分组，可实现16种指令。

4. 功能控制按键： 按下KNOB BANK按键可切依次切换两个旋钮功能组；
按PAD BANK 可切依次切换两个打击垫分组；
按ARP键可激活/关闭琶音器功能；
按NOTE REPEAT键可激活/关闭音符重复功能；
按TAP TEMPO键可通过敲击确定节拍速度；
按FIX VELOCITY键可激活/关闭全力度功能；

5. 走带控制按键： 6个走带控制按键，可以发送走带控制指令。指令以CC指令或MMC指令发送。您可以通过本机功能设置或配套的控制软件编辑这些指令。

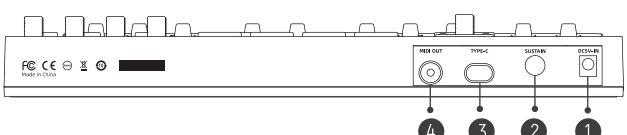
6. 主控制旋钮： 对主音量进行调节。可通过按压配合其它功能按键，旋转对弯音/调制触控条、琴键、打击垫、旋钮、走带控制按键进行功能设置。

7. 显示屏： 显示屏可以显示TempoKEY的参数设置，默认显示Synido品牌LOGO,以操作为节点更新显示，若无操作则显示不变。

8. 移调调节按键： TRANSPOSE半音移调、OCTAVE八度调节，使用+/-按键，可向上或向下调整切换键盘的音域。

9.弯音/调制触摸滑条： 可通过上下触摸滑动控制键盘的音高以及调制效果。

接口面板：



1. DC-5V： 电源供电接口，此接口仅提供电力但不交换数据；

2. 延音踏板输入： 可选用1/4英寸TS延音踏板连接到此处输入；

3. USB-C 接口： 使用 USB-TYPE-C线缆将此 USB 端口连接到您的电脑。电脑的 USB 端口会为 TempoPAD 提供电力并与您的计算机交换数据；

4. MIDI OUT： 3.5mm插座，以标准MIDI协议输出信号，需要TS - 5PIN DIN转接线；

使用说明

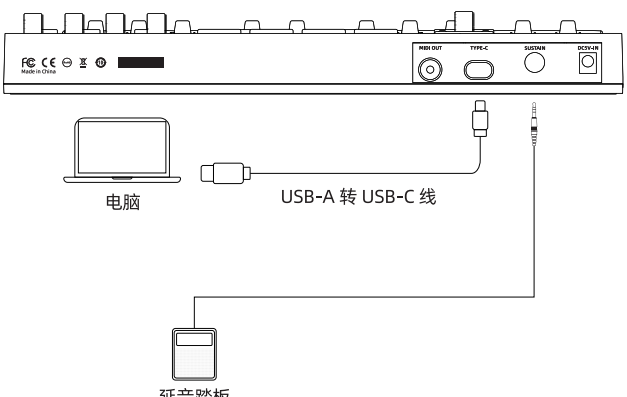
连接方式：

① 使用附带的USB-A TO USB-C线，将产品直接连接电脑。

② 打开您的DAW软件。

③ 打开 DAW 的 Preferences、Options 或 Device Setup，选择Synido TempoKEY作为输入与输出设备。

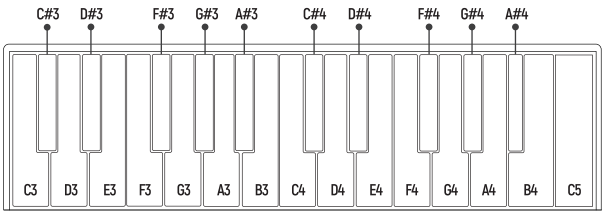
④ 您的TempoKEY K25现在即可与您的DAW软件进行通信。



注意：若需要使用延音踏板设备请另行购置。

琴键：

Synido TempoKEY K25含有两个八度音域共25个琴键，琴键从左至右依次所对应的音符信息，如下图所示：



注意：

因为不同DAW软件中钢琴卷帘所标记定义的中央C不同，因此发送的音符信息会与DAW软件中显示不一致。

力度感应有三种反馈模式，如下所示，默认为LINEAR线性型力度反馈；

1.LOG: LOGARITHM对数型力度反馈，适用于习惯用较小力度弹奏键盘的演奏者，轻按琴键就可以得到较高的力度值；

2.LIN: LINEAR线性型力度反馈，适用于大部分音乐和表演者；

3.EXP: EXPONENTIAL指数型力度反馈，适用于习惯用较大力度弹奏键盘的演奏者，需要较大的敲击才能得到较大的力度值。

力度感应适用于琴键与打击垫，可自行定义切换，您可在本机上设置（按住主控制旋钮的同时，按下任意琴键，旋转主控制旋钮对设置进行调节，再次按压主控制旋钮确认保存）或在Synido MIDI官方软件中设置完成后存储到本机。打击垫PAD只可在Synido MIDI官方软件中进行设置。

打击垫：

Synido TempoKEY K25的打击垫含有8个PAD，可发送NOTE、CC、PC信息，PAD BANK有两组可设置16种不同的参数信息，您可在本机上设置（按住主控制旋钮的同时，按下需要设置的PAD1-PAD8中的某一个PAD ，旋转主控制旋钮对选中的PAD进行调节，再次按压主控制旋钮确认保存）或在Synido MIDI官方软件中设置完成后存储到本机。本机设置按压PAD BANK按键进行分组切换，PAD有双色背光，BANK A为白色灯光，BANK B为橙色灯光。

默认情况下，PAD发送NOTE信息如下图所示，

BANKA	PAD号	PAD5	PAD6	PAD7	PAD8
	NOTE号	40	41	42	43
	PAD号	PAD1	PAD2	PAD3	PAD4
	NOTE号	36	37	38	39
BANKB	PAD号	PAD5	PAD6	PAD7	PAD8
	NOTE号	48	49	50	51
	PAD号	PAD1	PAD2	PAD3	PAD4
	NOTE号	44	45	46	47

可分配旋钮：

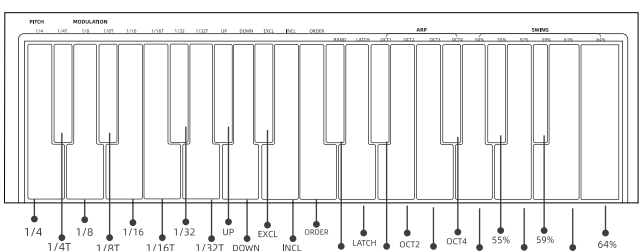
8个可自定义功能分配的有极旋钮，可发送CC、PC、CHN TOUCH（通道触后）信息，KNOB BANK有两组可设置16种不同的参数信息，您可在本机上设置（按住主控制旋钮的同时，旋转需要设置的K1-K8中的某一个KNOB ，旋转主控制旋钮对选中的KNOB进行调节，再次按压主控制旋钮确认保存）或在Synido MIDI官方软件中设置完成后存储到本机。本机设置按压KNOB BANK按键进行分组切换，KNOB BANK按键有双色背光，BANK A为白色灯光，BANK B为橙色灯光。

默认情况下，KNOB发送CC信息如下图所示：

BANK A	旋钮	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	事件编号	CC#01	CC#02	CC#03	CC#04	CC#05	CC#06	CC#07	CC#08
	通道	1	1	1	1	1	1	1	1
	最小值	0	0	0	0	0	0	0	0
	最大值	127	127	127	127	127	127	127	127
BANK B	旋钮	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	事件编号	CC#09	CC#10	CC#11	CC#12	CC#13	CC#14	CC#15	CC#16
	通道	1	1	1	1	1	1	1	1
	最小值	0	0	0	0	0	0	0	0
	最大值	127	127	127	127	127	127	127	127

功能控制按键：

1. ARP： Arpeggiator On/Off，琶音器开/关，按下此按钮可打开或关闭琶音器。按住ARP按键并按下TempoKEY K25键盘上的一个琴键（琴键上方文字对应相应功能）以输入琶音器的新设置：



- **时分：** 1/4 音符、1/4 音符三连音 (1/4 T)、1/8 音符、1/8 音符三连音 (1/8 T)、1/16 音符、1/16 音符三连音 (1/16 T)、1/32 音符或 1/32 音符三连音 (1/32 T)。
- **UP：** 音符将从最低到最高发声。
- **DOWN：** 音符将从最高到最低发声。

- **EXCL：**音符会从最低到最高，然后再下降。 在方向改变时，最低和最高音符只会发声一次
- **INCL:** 音符会从最低声到最高声，然后再下降。 在方向变化时，最低和最高音符会响起两次。
- **ORDER：**音符将按照它们被按下的顺序发声。
- **RAND:** 音符将按随机顺序发声。
- **LATCH：**即使您抬起手指，琶音器也会继续对音符进行琶音。在按住琴键的同时，您可以通过按下其他琴键向琶音和弦添加更多音符。如果您按下琴键，松开它们，然后按下新的音符组合，琶音器将记住并琶音新音符。
- **ARP OCT1-OCT4：**控制演奏的音符将通过琶音的八度音阶数，OCT1为默认初始设置音阶。
- **SWING：**摇摆值设定，50%（关闭，无摇摆）、57%、59%、61%、64%。

2. TAP TEMPO:

以所需的速率点击此按键以确定琶音器与音符重复的节拍速度，显示屏将显示当前速度值。如果音符重复（NOTE REPEAT）或琶音器（ARP）功能处于打开状态，该按键下面的LED灯会闪烁，闪烁的快慢代表了节拍速度。连续按下多次设备会测速，灯光跟随用户按键的速度闪亮，即完成设置。

3. NOTE REPEAT:

音符重复，按下此按钮可激活或停用音符重复模式，在该模式中敲击打击垫将导致打击垫以基于琶音器当前速度、时分和摇摆设置的速率重新触发。

4. FIX VELOCITY:

忽略实际演奏力度，以固定力度发送音符，默认为127力度值，作用于打击垫与琴键，您可在本机上设置（按住主控制旋钮的同时，按下FULL VELOCITY按键，旋转主控制旋钮对设置进行调节，再次按压主控制旋钮确认保存）或在Synido MIDI官方软件中设置完成后存储到本机改变影响区域，可供选项为：只作用于打击垫PADS、只作用于琴键KEYS、作用于打击垫PADS与琴键KEYS，并可改变固定力度值。

5. KNOB BANK:

打击垫分组切换按键，共两个分组，以按键背光颜色区分，BANK A为白色背光显示，BANK B为橙色背光显示。

6. PAD BANK:

可分配旋钮分组切换按键，共两个分组，以按键背光颜色区分，BANK A为白色背光显示，BANK B为橙色背光显示。

走带控制按键:

TempoKEY K25具有6个带背光的走带控制按钮：快退、快进、播放/暂停、停止、循环、录音按钮，按下可以发送CC或者MMC事件。您可在本机上设置（按住主控制旋钮的同时，按下需要设置的走带按键，旋转主控制旋钮对选中的走带按键进行调节，再次按压主控制旋钮确认保存）或在Synido MIDI官方软件中设置完成后存储到本机。

如果设备发送的是MMC事件，需要在DAW软件中打开MMC接收功能；

如果设备发送的是CC事件，必须在电脑DAW软件中调整映射关系来实现相应功能的控制。未在宿主软件中指派功能的情况下，按键无法实现控制。

注：MMC指令中没有LOOP循环的相应功能，所以LOOP循环按钮仅发送CC事件。

默认情况下，按下按钮发送CC事件，见下表：

	循环	快退	快进	停止	播放/暂停	录音
CC 编号#	21	22	23	24	25	26
通道	1	1	1	1	1	1
模式	切换	即时	即时	即时	切换	切换

移调调节按键:

TempoKEY K25 支持TRANSPOSE半音移调与OCTAVE八度调节功能，使用+/-按键，可向上或向下调整切换键盘的音域。TRANPOSE半音移调的可调范围是-6到+6，同时按下+/-按键可归零；OCTAVE的八度调节可调范围是-4到+4，同时按下+/-按键可归零。

弯音/调制触摸滑条：

PITCH：弯音，手指触摸上下滑动触控条发送MIDI PITCH BEND信息，可开启/关闭自动归位，自动归位时间可进行变更，您可在本机上设置（按住主控制旋钮的同时，滑动PITCH触摸条 ，旋转主控制旋钮进行设置调节，再次按压主控制旋钮确认保存）或在Synido MIDI官方软件中设置完成后存储到本机。

MODULATION：调制，手指触摸上下滑动触控条发送连续的控制器数据CC#01信息（默认），您还可以修改发送其它的CC信息，您可在本机上设置（按住主控制旋钮的同时，滑动MODULATION触摸条 ，旋转主控制旋钮进行设置调节，再次按压主控制旋钮确认保存）或在Synido MIDI官方软件中设置完成后存储到本机。

配套软件说明

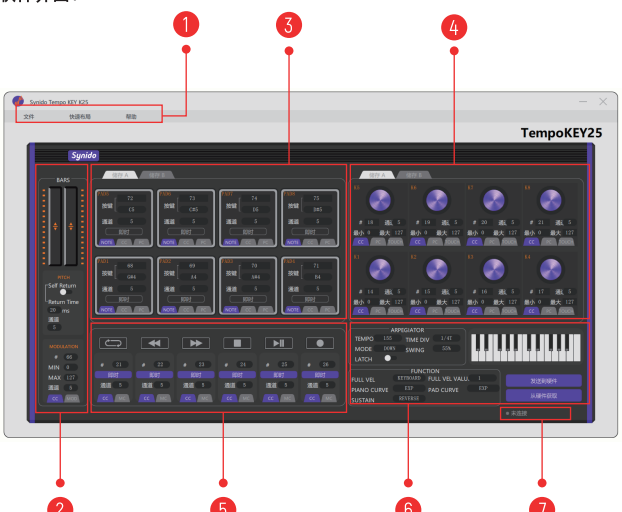
软件下载与安装：

TempoKEY提供有一个配套软件，用来写入或读取TempoKEY中的参数配置，实现各种MIDI命令的发送；

配套软件的下载地址为：https://www.synido.cn/support/downloads

下载后请运行程序，执行安装；

软件界面：



① 菜单栏
② 弯音/调制设置区
③ 打击垫设置区
④ 旋钮设置区
⑤ 走带按键设置区
⑥ 功能按键设置与硬件参数获取/发送
⑦ 连接状态指示

设备占用（适用于WINDOWS系统）：

设备的连接状态显示在软件的右下角（⑦处），只有显示已连接时，软件才可以写入或读取TempoKEY的参数配置；
如果此处显示”已连接”表示此时软件和TempoKEY连接正常，软件可以和设备传输配置；

如果此处显示”未连接“可能是因为设备没有正常连接到电脑，或者有DAW此时正在占用设备；您需要退出DAW，或其他正在占用此MIDI设备的程序，有时还需要重新连接设备。

菜单栏：

菜单栏的功能有：打开、保存、另存为、发送到硬件、从硬件获取、恢复默认值和退出。

打开：读取一个参数配置文件；
保存：将当前的参数配置保存在当前预设文件中，如当前无预设文件将会打开对话框保存到新的文件中，文件以stm后缀保存；
另存为：将当前参数配置保存成新的存预设文件；
发送到硬件：将当前参数配置发送到TempoKEY；
从硬件获取：从TempoKEY上获取参数配置；
从恢复默认值：恢复出厂设置默认的参数配置；
退出：退出控制面板

弯音/调制设置：

PITCH弯音设置中：
可修改信息通道、打开/关闭自动归位、归位时间，归位时间调节范围为0-127;关闭自动归位时，归位时间不可调节。

MODULATION调制设置中：
点击标签选择信息类型，可选的类型有：CC、调制信息；
输入最小值、最大值确定触摸条的控制范围；
选择信息的通道；

PAD设置：

点击储存标签切换AB两个分组；
点击通道选择事件发送的通道；
点击PAD的标签选择事件类型：可选的类型有：音符、CC、和PC；
如果选择音符事件，在按键栏中输入数字，或点击音名调整音符的音高；
在音符事件中无法选择即时/切换功能；

如果选择PC信息，在按键栏中输入信息编号；PC事件模式中，切换/即时功能不可用，每次按压PAD发送一次PC事件；

提示：即时模式下：按下一个按键时发送值为127的事件，松开按键时发送值0的事件；切换功能模式下：每完成一次按下并离开按键的操作时，交替发送值为127和0的事件。

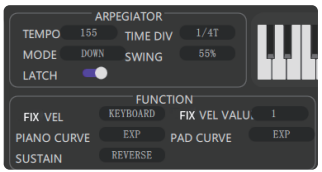
走带控制：

点击标签选择按钮发送CC事件或MMC事件；
输入事件编号；
点击按钮切换功能即时或是切换（发送MMC命令时不可调整）；
选择事件的通道；

旋钮设置：

点击储存标签切换想要编辑的组；
点击标签选择事件类型，可选的类型有：CC、PC、通道触后信息；
输入最小值、最大值确定旋钮的控制范围；
选择事件的通道；

功能按键设置：



琶音器功能区可调整节拍速度、音符时值、琶音类型、摇摆值、LATCH锁定/取消，其中TEMPO的可调范围为：30-280BPM

功能调节区可设置固定力度影响区域与力度值、力度感应类型、延音踏板控制功能类型。

固件升级：

先连接设备，直到软件显示“已连接”状态；
点击帮助菜单关于，在打开的对话框中点击firmware update；

产品规格

产品型号：TempoKEY K25	**整机功耗：**300mA
产品颜色：黑+紫	**产品重量：**960g
产品材质：塑料+硅胶	**产品尺寸：**344*183.3*46.3mm

售后服务

若您有任何售后服务需求，微信扫描下方二维码，联系官方客服：

Synido小助手 👉
工作时间：
9:00-1800（周一至周五）

附录

MIDI事件解释：

事件：即一条MIDI指令。

通道：在MIDI协议中有16个通道，绝大多数MIDI事件包含通道信息。用户可以在接收设备上设置仅接收某个通道的事件，如A设备仅接收通道1事件，B设备仅接收通道2事件。然后当用户可以在发送设备上发送通道1事件来控制A设备，发送通道2事件来控制B设备。

CC事件：即控制器变化事件（Controller Change）。一个CC事件包含以下几个信息：通道号、CC编号、事件值。MIDI协议定义了一些特定的CC编号功能，如CC#7号事件为主音量事件，CC#64是延音踏板事件；有些CC指令未被指派功能，即用户可以自行定义。CC事件的定义详见附录；
CC事件可以是单独一条指令：比如按下某PAD上发送一条CC#64号，值127的指令，接收端接收到指令后执行打开延音踏板动作；也可以是连续的多条指令，比如旋转一个旋钮，发送CC#7号，值从0发送到127的事件，系统收到指令后，将音量从最小调整至最大。

PC事件：即程序变更事件（Program Change）。也是控制命令的一种。包含通道信息和事件编号。通常用来表示音色更换。

即时按键：当按下一个按键（按钮）时发送开启事件，松开琴键（按钮）时发送关闭事件；比如用打击垫模仿琴键的功能时，按下打击垫时发送“音符开启”指令，当离开打击垫时发送“音符关闭”指令。

切换按键：每完成一次按下并离开按键操作时，交替发送开启和关闭事件；比如可以作为开关使用：每敲击一次PAD交替发送值127和0的指令，在接收端设定127为开，0为关闭，达成控制效果。

CC默认事件列表：

CC 0 (BankSel MSB)
CC 1 (Modulation)
CC 2 (Breath)
CC 3 (Control 3)
CC 4 (Foot)
CC 5 (Portamento)
CC 6 (DataEnt MSB)
CC 7 (Main Volume)
CC 8 (Balance)
CC 9 (Control 9)
CC 10 (Pan)
CC 11 (Expression)
CC 12 (Control 12)
CC 13 (Control 13)
CC 14 (Control 14)
CC 15 (Control 15)
CC 16 (Gen Purp 1)
CC 17 (Gen Purp 2)
CC 18 (Gen Purp 3)
CC 19 (Gen Purp 4)
CC 20 (Control 20)
CC 21 (Control 21)
CC 22 (Control 22)
CC 23 (Control 23)
CC 24 (Control 24)
CC 25 (Control 25)
CC 26 (Control 26)
CC 27 (Control 27)
CC 28 (Control 28)
CC 29 (Control 29)
CC 30 (Control 30)
CC 31 (Control 31)
CC 32 (BankSel LSB)
CC 33 (Modulation LSB)
CC 34 (Breath LSB)
CC 35 (Control 35)
CC 36 (Foot LSB)
CC 37 (Porta LSB)
CC 38 (DataEnt LSB)
CC 39 (Main Volume LSR)
CC 40 (Balance LSB)
CC 41 (Control 41)
CC 42 (Pan LSB)
CC 43 (Expr LSB)
CC 44 (Control 44)
CC 45 (Control 45)
CC 46 (Control 46)
CC 47 (Control 47)
CC 48 (Control 48)
CC 49 (Control 49)
CC 50 (Control 50)
CC 51 (Control 51)
CC 52 (Control 52)
CC 53 (Control 53)
CC 54 (Control 54)
CC 55 (Control 55)
CC 56 (Control 56)
CC 57 (Control 57)
CC 58 (Control 58)
CC 59 (Control 59)
CC 60 (Control 60)
CC 61 (Control 61)
CC 62 (Control 62)
CC 63 (Control 63)
CC 64 (Sustain)
CC 65 (Porta On/Off)
CC 66 (Sostenuto)
CC 67 (Soft Pedal)
CC 68 (Legato FS)
CC 69 (Hold 2)
CC 70 (Sound Var)
CC 71 (Harmonic)
CC 72 (Release Time)
CC 73 (Attack Time)
CC 74 (Brightness)
CC 75 (Control 75)
CC 76 (Control 76)
CC 77 (Control 77)
CC 78 (Control 78)
CC 79 (Control 79)
CC 80 (Gen Purp 5)
CC 81 (Gen Purp 6)
CC 82 (Gen Purp 7)
CC 83 (Gen Purp 8)
CC 84 (Porta Ctrl)
CC 85 (Control 85)
CC 86 (Control 86)
CC 87 (Control 87)
CC 88 (Control 88)
CC 89 (Control 89)
CC 90 (Control 90)
CC 91 (ExtEff 1 Depth)
CC 92 (ExtEff 2 Depth)
CC 93 (ExtEff 3 Depth)
CC 94 (ExtEff 4 Depth)
CC 95 (ExtEff 5 Depth)
CC 96 (Data Incr)
CC 97 (Data Decr)
CC 98 (NRPN LSB)
CC 99 (NRPN MSB)
CC 100 (RPN LSB)
CC 101 (RPN MSB)
CC 102 (Control 102)
CC 103 (Control 103)
CC 104 (Control 104)
CC 105 (Control 105)
CC 106 (Control 106)
CC 107 (Control 107)
CC 108 (Control 108)
CC 109 (Control 109)
CC 110 (Control 110)
CC 111 (Control 111)
CC 112 (Control 112)
CC 113 (Control 113)
CC 114 (Control 114)
CC 115 (Control 115)
CC 116 (Control 116)
CC 117 (Control 117)
CC 118 (Control 118)
CC 119 (Control 119)
CC 120 (AllSndOff)
CC 121 (Reset Ctrl)
CC 122 (Local Ctrl)
CC 123 (AllNoteOff)
CC 124 (Omni Mode Off)
CC 125 (Omni Mode On)
CC 126 (Mono Mode On)
CC 127 (Poly Mode On)