

Solo

61-Keys arranger keyboard with LCD Display

English

User manual

Introduction

Thank you for choosing this keyboard from VIVA.
This keyboard gives you the perfect opportunity to enter the wonderful universe of music.

Information for users on the collection and disposal of old equipment

This symbol of products, packaging and/or accompanying documents indicates that used electrical and electronic products must not be disposed of with other household waste. Deliver old products to suitable collection points to ensure proper treatment, recovery and recycling under local legislation and Directive 2002/96/EC.

By properly disposing of these products, you are helped to save valuable resources and prevent any harmful effects on human health and the environment that might otherwise result from waste.

For more information about collecting and recycling old products, contact your local authorities, municipal waste disposal authorities or the retailer where you purchased the product.

(For business users in the EU)

Contact your dealer or supplier for more information if you wish to dispose of electrical and/or electronic equipment.

(Information on disposal in non-EU countries)

This symbol is only valid in the EU. Contact your local authority or dealer and ask for the correct disposal method.



Precautions

PLEASE READ THE INSTRUCTIONS BEFORE USING THE INSTRUMENT

Keep the user guide in a safe place for later use.

AC adapter



Warning

- The AC adapter is designed exclusively for use with VIVA electronic instruments. Therefore, do not use it for other purposes.
- Only use indoors and in non-humid environments



Caution

- Position the instrument for easy access to an electrical outlet. Should a problem or error occur, immediately turn off the instrument and remove the AC adapter from the socket. When the AC adapter is plugged in, small amounts of electricity are provided at all times, even if the power switch on the instrument is switched off. Therefore, always unplug if the device is not to be used for an extended period of time



Follow the safety instructions below to reduce the risk of injury or death due to electric shock, short circuit, injury, fire or other hazards.

- Do not place the power cord near heat sources or radiators. Avoid bending the cord too forcefully or otherwise damaging it by placing heavy objects on it, for example.
- The instrument must only be connected to the correct mains voltage.
- Use only the supplied adapter, otherwise it may result in damage to the instrument or overheating.
- Never place burning objects, such as candles, on the instrument, as these may tip over and cause fire.
- Always contact your dealer if the power cord is damaged or you notice unusual odours or smoke from the instrument. Or if you experience other problems with the instrument.

• The instrument cannot be serviced by the enduser. Therefore, do not open the instrument or otherwise attempt to change the interior parts. If the product is not working properly, contact your dealer or the location where you purchased the instrument immediately.

- Do not expose the instrument to rain and do not use it in or near damp or wet areas. Do not place liquid containers on the instrument. If liquid enters the instrument, immediately turn off the power and unplug the power.
- Never insert or remove the plug with wet hands.

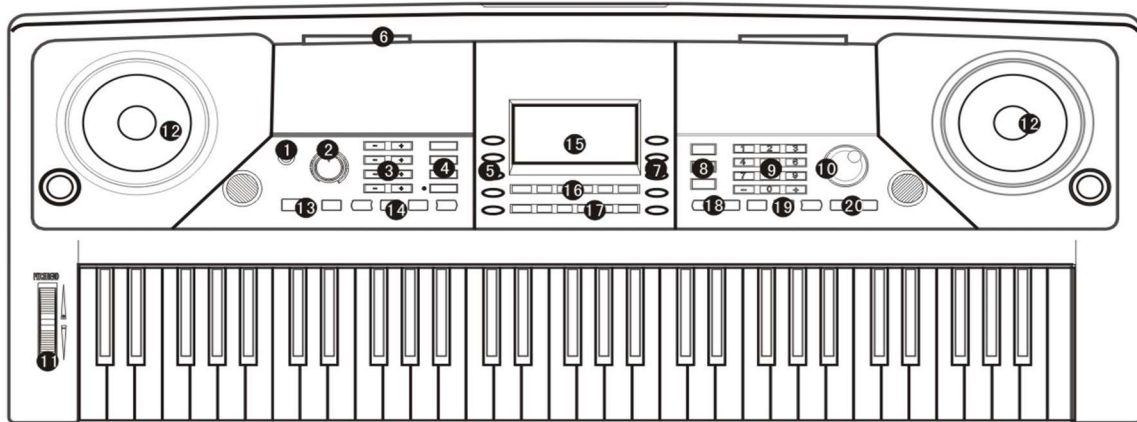
Content

I. Front panel control and rear panel connections	1-2
1. Front panel	1
2. Overview of the LCD screen	2
3. Connections on back panel	2
II. Pre-use	3
Power supply requirements	3
1. Use with power supply	3
2. Use with batteries	3
In/outs on the rear panel	3-4
1. Connecting headphones	3
2. Using line out	4
3. Using sustain pedal (lengthen tone)	4
4. Using (MP3) USB input	4
5. Using (MIDI) USB in/out	5
III. Basic features	5-8
I. Basic operation	5
1.To turn on the instrument	5
2.Master Volume Adjustment	5
Sounds	5-6
1. Choice of main sound	5
2. Dual voice	5
3. Octave	6
Effects	6-9
1. Sustain	6
2. Modulation	7
3. O.T.S (One-touch option)	7
4.Touch (Key sensitivity)	7
5.Tempo	7
6. Transpose	8

7. Metronome	8
8. Chord mode	8
9. Pitch bend	9
Playing rhythm/accompaniment	9-15
1. Choice of rhythm/accompaniment	9
2. Rhythm control	9
3. Adjust volume for accompaniment	10
4. Record function	10
5. Registration memory	11
6. Song/Melody	11
7. Function menu	12
8. Sound mixer	13
9. Melody learning function	13
10. Playing Mp3	15
AUDIO Overview	16
RHYTHM overview	19
DEMO overview	21
TROUBLESHOOTING	22
Technical specifications	23

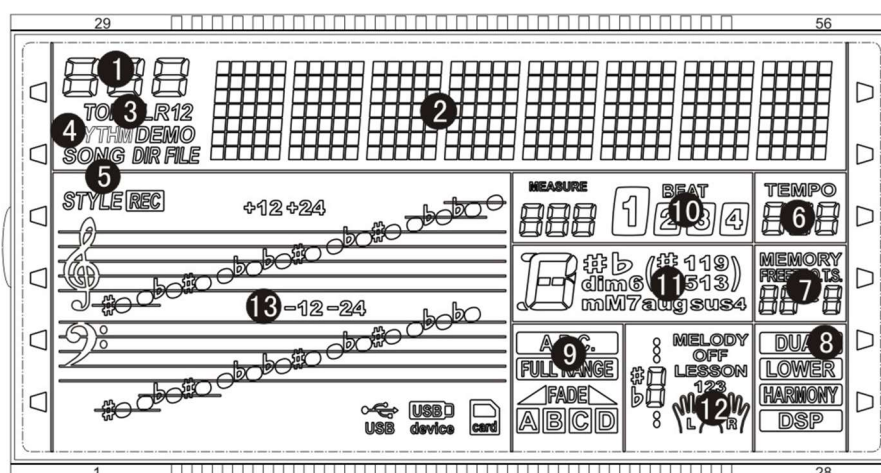
I. Front panel control and rear panel connections

Front panel control



1. Power button
2. Volume rotary wheel
3. Acc. volume/Octave/Transpose/Tempo
4. Function menu/Mixer/Metronome/Chord mode
5. Direct rhythm selection
6. Holes for the music rest
7. Direct audio selection
8. Tone/Rhythm/Song
9. Numeric 0-9/+& buttons
10. Data Wheels
11. Pitch bend
12. Speakers
13. Start/Stop/Sync/Intro/Ending
14. Fill in A/Fill in B/Fade-in/Fade-out
15. LCD Display
16. Record/Play/Dual voice/Sustain/Modulation/O.T.S.
17. Memory/M1/M2/M3/M4/Bank
18. Learn/Left/Right
19. Touch sensitivity
20. MP3/Previous song/Volume/Next song/Volume+

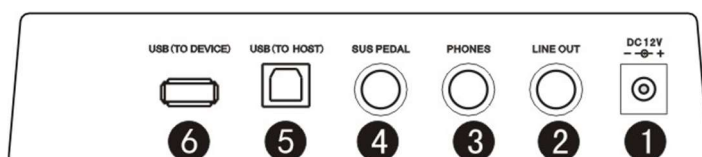
LCD screen overview



- | | |
|-----------------------------|-----------------|
| 1. Number view | 8. Dual voice |
| 2. Sound/Rhythm/Melody view | 9. Chord mode |
| 3. Sound (Voice) | 10. Metronome |
| 4. Rhythm | 11. Chord view |
| 5. Melody (Song) | 12. Lesson view |
| 6. Tempo | 13. Node view |
| 7. Registration view | |

Behind Panel's connections

Innd & outputs



- | | |
|---------------------------|---------------------------------|
| 1. DC12V power connection | 4. Sustain pedal connection |
| 2. Output to amplifier | 5. USB MIDI connection |
| 3. Headphone output | 6. Mp3 usb connector connection |

II. Pre-use preparation

Power supply requirements

1. Use with power supply:

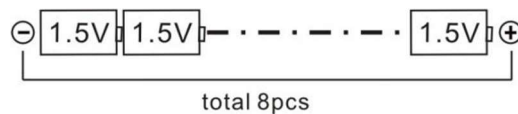
Use the special power adapter that was packed with this keyboard. Insert the DC connector from the power adapter into the DC connector on the keyboard, and then plug the other end into the socket, and finally turn the keyboard on the power button.



Caution: When not using the keyboard, unplug the power supply from the power outlet.

2. Use with batteries:

Open the battery cover at the bottom of the keyboard and add 8 x 1.5V D batteries and make sure that the polarity of the batteries should correspond to + & - the direction of batteries marked under the battery cover. Attach the battery cover after installation.



Caution: Please replace all batteries at once when replacing the batteries. Do not use different kinds of batteries, and do not mix new and old batteries.

Remove the batteries to avoid possible damage due to battery leakage if you do not use the keyboard for a long time.

In/outs on the back

1. Using headphones:

Plug the headphone jack into the [HEADPHONE] connector on the back of the keyboard

The internal speaker system on the keyboard is now automatically disconnected.



2. Using line out

This keyboard has a built-in speaker system, but it can also be connected to an external amplifier/Hi-Fi equipment or active speaker.

Insert one end of cables (jack connector) In LINE OUT on the back a keyboard and the other end of the cable in the amplifier's LINE IN / Aux IN connector (usually 2 x phono connectors which are red and white), or In the input on an active speaker (usually Xlr/jack or phono)



Caution: To prevent damage to amplifier/Hi-Fi equipment or active speaker, turn volume on the keyboard completely down before connecting. You can increase the volume gradually until you are satisfied with the volume when playing on the keyboard.

3. Using sustain pedal.

Connect a sustain pedal (extra equipment) to the keyboard while the keyboard is turned off.

By stepping on the sustain pedal, you can extend the sound of the sound while the pedal has been stepped down.

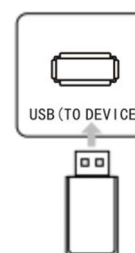


4. Connecting USB connectors with Mp3 audio files:

This keyboard supports connecting an up to 32G USB key. You can play MP3 files via the USB to DEVICE.



Caution: Do not unplug the USB plug during the playback process, otherwise it will cause errors and/or the USB connector may be damaged.



5. Connecting to USB to HOST - MIDI:

This keyboard can be connected directly to a PC, for use with midi. Connect a USB A-B cable to the keyboards USB to HOST, and the other end to the USB port on your computer. You can now transfer midi information between keyboard and computer. You can play MIDI files from your computer on the keyboard and from the keyboard record midi via additional software on your computer.

III. Basic features

Basic operation

1. How to turn on the instrument

Press the [Power] button to turn on the keyboard (Make sure the *power adapter is plugged in or the batteries are installed correctly*). Press the [Power] button again to turn off.



2. Volume Adjustment

With the [Volume] dial, you can set the volume to suit your needs



Sound

1. Sound selection

This keyboard has 422 different sounds to choose (see audio map)

1. Pressing the [Tone] button activates audio selection. R1 appears on the screen and now you can see the number and name of the sound at the top of the screen.
2. Now the different sounds can be selected with either the numeric keypad or with the [+] / [-] buttons in the same place.
3. Now you can play with the selected sound.



Note:

If the [Dual voice] function is on, the [Tone] button can be used to select which of the 3 different options will change the sound. Options R1/R2/L They appear on the screen which one you are in the process of changing. So if it is the primary sound (R1) you want to select, you must have R1 on the screen.

2. Using dual sound - Dual voice

This keyboard has the Dual voice feature, which allows you to add two sounds to each other. This can give a larger and fuller sound.

1. By pressing the [Dual] button, audio number 2 (R2) turns on and this is marked with "DUAL" in the lower right corner of the screen. Now you see the number and name of the sound at the top of the display.

2. Now the different sounds can be selected with either the numeric keypad or with the [+] / [-] buttons in the same place.

3. Now you can play with two sounds at the same time

4. Pressing the [Dual voice] button again interrupts the Dual voice function. Now the display of "DUAL" and "R2" turns off on the screen and you are back to a single sound.

Note:

When the keyboard is in Chord mode, where the keyboard is split up to chords in the left hand and sound in the right hand, then Dual Voice only works in the right hand.



3. Octave shift

The total sound of the sound in R1 – Dual voice R2 and left hand sound L can be raised and lowered by 2 octaves

1. Select the sound you want to change the octave on by pressing the [Tone] button

"sound R1", "sound R2" or "sound L" are displayed on the screen.

2. Then press the [Octave+] or [Octave-] buttons

The selected octave value "xxx Octave" appears temporarily on the screen after the octave function was entered.

By pressing the [Octave+] and [Octave-] simultaneously buttons, the octave value is restored to the preset value 0.

Note:

When using the octave function, the outer positions on the keyboard may sound incorrect. This is perfectly normal and it's because you get outside the normal range for the sound of the selected instrument.



EFFECTS

1. Sustain

Pressing the [Sustain] button displays "ON SUSTAIN" on the screen. Sustain can add an extension to the sound, which can make the tone effect of some sounds fuller and make it more vibrant to play. Pressing the [Sustain] button again turns off the Sustain function. You can also use a sustain pedal, which can be connected on the back, instead. When the pedal is pressed down, it is the equivalent of turning on the sustain and when you release the pedal, it turns off again.



2.Modulation

By pressing the [Modulation] button displayed "ON MODULE" on the screen, there we now have vibrato effect on the sound if you play keys now. Press the [Modulation] button again to end the vibrato function.



3.O.T.S. (One-touch option)

It is not always easy to choose an appropriate tone to play with the different accompaniments. O.T.S is many times the easiest way to solve this problem. You only need to press a key and the keyboard will choose a sound that matches the selected auto-accompaniment style. Press the [OTS] button to set the automatic accompaniment tone, Effects, and settings that best fit.

By activating O.T.S. mode, it turns on the chord mode function (where you play chords with your left hand). You can now start playing and the keyboard selects the sound based on which rhythm/accompaniment you choose

The O.T.S. setting contains the following parameters:

Sounds, both R1, Dual R2 and left hand L, as well as volume, reverb and chorus effects



4. Touch (Key sensitivity)

The [TOUCH] button allows you to choose whether or not the keyboard should be Touch-sensitive. If [TOUC] is active, the key sound level will change depending on whether you press hard or softly on the tangent, where against the sound level will be the same no matter how hard you press if [TOUCH] is off.



5.Tempo

By pressing the [Tempo +/-] buttons, you can adjust the tempo of the beat/accompaniment. The adjustment range is between 30-280, the selected tempo value appears on the screen when you make pace adjustment.

Pressing the [Tempo +/-] buttons at the same time restores the default value Tempo of the selected beat immediately.



6. Transpose

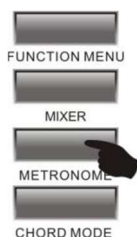
The tones of the entire keyboard can be raised or lowered by halftones by pressing [Transpose +/-] buttons. You can raise or lower ± 12 halftones. When the [Transpose +/-] buttons are pressed at the same time, the transpose's original value is restored 0. When the keyboard is turned on, the starting value is always 0

This function can be used, for example, if you are two persons playing together and you play the melody in two different keys, or if you can play a melody, but the key is too high or low for you to sing, then you can change the key up or down until it fits together.



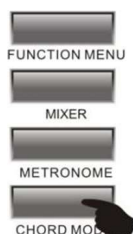
7. Metronome

Pressing the [Metronome] button displays the Beat selection on the screen. You can select beat from "Function Menu" to set the metronome's beat. In the function menu you can select the stroke by pressing the [+/-] buttons or the rotating data wheel is the selection area 0,2,3...9. The metronome can also be used when playing with a rhythm/accompaniment.



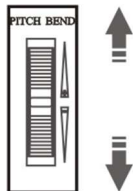
8. Chord mode

By pressing the [Chord mode] the accompaniment functions starts, this enables you to play chords in the left hand which controls the accompaniment. You can choose either A.B.C. Chord mode (single finger chord, 3 or more note chord) Full range chord (three-note or more chord all over the keyboard).



9. Pitch bend

Pitch bend can add a smooth tone change up or down to the played tones in the right hand. To raise the tone, push the pitch bend wheel upwards with your left hand or reduce the tone by pulling the pitch bend wheel downwards with your left hand when playing keyboard with your right hand. An example might be that on a guitar sound you can make the sound as when you "twist" the string on a real guitar, or on a trumpet sound you can slide up the tone as you can on a real trumpet.



Playing rhythm/accompaniment

1. Choice of rhythm/accompaniment

The keyboard has 210 different rhythms/akkompagnements that can be selected. (See Rhythm overview)

Pressing the [Rhythm] button turns on "STYLE" on the screen,

You can now select the rhythm you need using the 0-9 numeric keypad, with [+/-], or with the data wheel.

The default rhythm is 001 Dance rhythm when you turn on the keyboard. You can also choose rhythm with 5 direct rhythm buttons, each button corresponding to two kinds of rhythms. These buttons sit to the left of the screen



2. Rhythm control

Start/Stop:

Pressing the [Start/Stop] button starts the beat and then stops it again.

Sync start:

Pressing the [Sync] button activates the "start sync accompaniment feature. This allows you to start rhythm/ accompaniment with the first 19 keys, which are also to the ones you use for the chords in your left hand with. Pressing the [Sync] button will turn off again.

Intro/Ending:

If you press the [Intro/Ending] button before starting the beat, the keyboard plays an intro to the rhythm you have chosen. When the intro is finished, the rhythm continues. Pressing [Ending] while the rhythm is playing will allow the keyboard to play a suitable finish/Ending to the beat before it stops. In this way, you get the feeling of playing with an entire orchestra.

Fade-in/Fade-out:

1. Fade-in

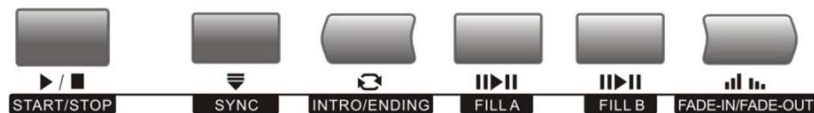
By pressing the [Fade-in/Fade-out] button before starting the beat, the beat will start at low level and then gradually reach normal level.

2. Fade out

By pressing the [Fade-in/Fade-out] button while playing, the rhythm will gradually decrease until it is completely gone and the rhythm stops.

3. Fade-in/Fade-out time

The default time for fade-in/fade-out is 10 seconds.



3. Adjust the volume of the accompaniment:

This keyboard has a total of 33 levels (0-32) to adjust the rhythm/accompaniment volume. The volume can be adjusted by pressing the [Accomp volume +/-] buttons that appear briefly on the screen when you make the adjustment. Pressing the [Accomp volume +/-] [Buttons at the same time closes the accompaniment volume on the screen.



Record function

Pressing the [Record] button prepares the keyboard to record. When you press the [Play] button, the recording starts and it stops automatically when you stop playing.

The recording space is 62Kb.



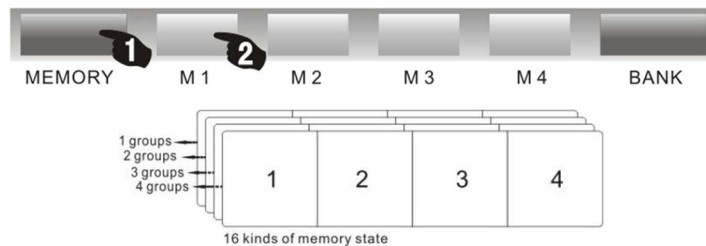
Registration memory

This instrument has registration memory function, which can be used to store your most preferred settings. The settings can be easily and quickly both saved and retrieved when you need to. There are 4 memory groups (banks) with each 4 registration slots, giving you a total of 16 different places to store.

You can make choices in each of the 4 memory groups by pressing the [Bank] button, "MEM BANK" 01-04 appears on the screen.

By holding down the [Memory] button, and then pressing any button on the M1-M4, "01-04 BUT. LARGE" appears on the screen, the settings are saved.

This is saved with the recording: Rhythm, sounds, tempo volume and effects. If you save to a memory position that contained previous data, the new setting will overwrite previous data.



Song

This keyboard has 120 different tunes built in.

1. Press the [SONG] button to enter the melody playback "SONG" -lights up on the screen. Start the melody is 001 song.
2. You can choose you want, using the numeric keypad 0-9, [- / +] buttons or data wheel, the song plays automatically after a few seconds.
3. Pressing the [Song] or [Start/Stop] button can stop playing the song.

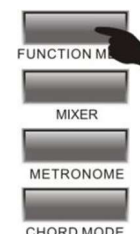


Function menu

Press the [Function Menu] button to open the function menu.

By default, the first option is "Metronome type" when the function menu is opened for the first time after the keyboard has been turned on. It automatically jumps to the next menu item every time you press the [Function Menu] or [- / +] button. If you go out of the [Function menu] and back in without the keyboard having been turned off, it will start in the last selected menu.

These parameters can be set by pressing the [Function menu] button repeatedly. The specific functional options and parameter ranges are as below.



№.	Function option	Screen view	Parameter ranges
1	Metronome type	XX Beat	0,2... 9
2	Tune	XX Tune	-50... +50
3	Reverb type	XX Revb Type	1~10
4	Reverb depth	XXX Revb Live	0~127
5	Chorus type	XXX Chr Type	1~8
6	Chorus depth	XXX Chor Live	0~127

Note:

If either [Function Menu] or +/- buttons are pressed for 3 seconds, the system leaves the function menu.

Metronome type setting

1. Press the [Function Menu] button, (if needed repeatedly) until "Beat" appears on the screen. You can now select the metronome beat indication by pressing the [- / +] buttons.

Setting Reverb type

1. Press the [Function Menu] button until "004 Rev Type" appears on the screen
2. You can now select the reverb type by pressing the [- / +] buttons. There are a total of 10 types of reverbs.
3. Pressing the [- / +] buttons at the same time restores the reverb type to the preset value: 004

Setting Reverb depth

1. Press the [Function Menu] button, if any, repeatedly until " XXX Rev Lev" appears on the screen. You can now select the length of the reverb by pressing the [- / +] buttons, the interval goes from: 0 ~127.

Pressing the [- / +] buttons at the same time restores the reverb length to preset value.

Setting chorus type

1. Press the [Function Menu] button until "003 Chr Type" appears on the screen
- You can now select the chorus type by pressing the [- / +] buttons. There's a total of 8 types of chorus type.
4. Pressing the [- / +] buttons at the same time restores the reverb type to the value: 003

Setting Chorus depth

1. Press the [Function Menu] button, if any, repeatedly until " XXX Chr Lev" appears on the screen. You can now select chorus depth by pressing the [- / +] buttons, the interval goes from: 0 ~127.
2. By pressing the [- / +] buttons at the same time, the chorus is restored to preset value.

Mixer

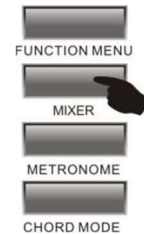
Playback volume for each part can be controlled independently of each other.

1. Press the [Mixer] button to enter the audio console function menu, the last selected part appears on the screen.

2. To select the part(s) you want to change, press the [Mixer] button until the part you want to change the volume is on the screen. Then press the [- / +] button to turn up or down the volume.

Each party is:

Function option	LCD screen	parameter range
Percussion music track volume	XXX Rhythm_m	0 - 32
Bass track volume	XXX Bass	0 - 32
Harmony track1 volume	XXX Chord1	0 - 32
Harmony track2 volume	XXX Chord2	0 - 32
Harmony track3 volume	XXX Chord3	0 - 32
Master voice track volume	XXX Upper1	0 - 32
Dual voice track volume	XXX Upper2	0 - 32



Note:

If no buttons are pressed for 3 seconds, the system leaves the function menu.

Melody learning function

The keyboard's learning function consists of these three buttons [Lesson], [Left], [Right], these buttons are only active in "Song/Melody mode". All songs can be learned in 3 ways: learning **tone length/node values**, **learning tones**, and learning **tone length/node values and tones** at the same time. This keyboard can also display nodes on the screen.

1. Go into the Lesson feature

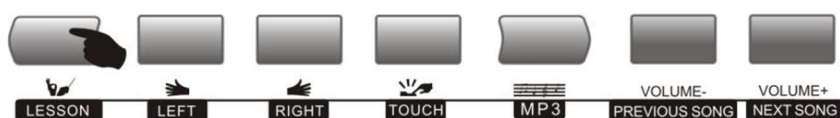
By pressing the [Lesson] button, you enter song learning mode.

2. Choose whether you want to learn how to play left or right hand.

You can select the buttons [Left] or [Right], if you do not choose one, the system right hand is automatically selected for you.

Note:

The way to learn the left hand is different, based on the different songs. For some melodies, the left hand will be used to learn chords, while for others it is used learning parts of melody with the left hand. MIDI songs are not supported by the learning feature. The sheet music and the chord display area on the screen show melody and/or chords of melodies when played.



Learning mode1:Tone length/node value lesson

1.Press the [Lesson] button to enter learning mode 1.

"Lesson1 R" appears at the bottom of the screen. This lesson checks the duration of the tones played, but does not check the accuracy of the tones and chords played in learning mode 1. The song plays normally.

2.Press the [Start / Stop] button to start learning the melody.

If you choose to learn the right hand, the melody's part of the right hand disabled. You only need to play the correct

duration of the notes in the melody. It is not necessary to consider that the tones played are correct or incorrect.

If you select the left hand to learn the melody's chords or melody, then the left hand is disabled. Here, too, you only need to play correct duration, it is not necessary to consider that the tones played are correct or incorrect.

You can choose to practice the left hand by pressing [Left] så appears "L" in the display.

By pressing the [Left] & [Right] buttons at the same time, both left and right can be rehearsed at the same time, så displayed "L&R" in the display.

The system will make an estimate after the melody is over.

Learning mode 2: Tone lesson

1.Press the [Lesson] button to enter learning mode 2.

"Lesson2 R" appears at the bottom of the screen. This lesson checks the accuracy of the tones played, but does not check the accuracy of the duration of the notes played in learning mode 2. The song plays at the pace you play and wait until you have played the right tone/note.

2.Press the [Start / Stop] button to start learning the melody

If you choose to learn the right hand, the melody's part of the right hand is disabled. You only need to play the correct tone of the melody. It is not necessary to consider if the tones played have the correct duration/length.

If you select the left hand to learn the melody's chords or left the hand melody part is disabled. Here, too, you only need to play the right tones, and not that the tones played have the right duration/length.

You can choose to practice the left hand by pressing [Left] så appears "L" in the display.

By pressing the [Left]& [Right] buttons at the same time, both left and right can be rehearsed at the same time, will displays "L&R" in the display.

The system will make an estimate after the melody is over.

Learning Mode 3:

1. Press the [Lesson] button to enter learning mode 3

"Lesson3 R appears at the bottom of the screen. This lesson checks both the accuracy of the duration of the notes and the tones played.

2. Press the [Start / Stop] button to begin learning the melody.

You can choose to practice the left hand by pressing [Left] appears "L" in the display.
By pressing the [Left] & [Right] buttons at the same time, both left and right can be rehearsed at the same time, and "L&R" appears in the display
The system will make an estimate after the melody is over.

Playing Mp3

To play Mp3 files, a USB connector must be connected to the keyboard. This is done on the back of the keyboard in the USB to Device input.

By pressing the [MP3] button, you can play an Mp3 from a USB connector.

By pressing the [Play/Stop] button, you can start and stop playing.

By pressing the [Previous song] button, you can go back a song. [Previous song] and [Volume-] are the same and hold the button down you turn down the volume of the Mp3 file. [Previous song] only works when Mp3 is selected.

By pressing the [Next song] button, you can go forward with a song. [Next song] and [Volume+] are the same and if you hold the button, you turn up the volume of the Mp3 file. [Next song] only works when Mp3 is selected.



№.		№.	AUDIO overview	№.	
1	Acoustic Grand Piano	48	Glockenspiel	95	Chorus Nylon Guitar
2	Piano Dark	49	Glockenspiel & Sine	96	Stereo Nylon Guitar
3	Octave Piano	50	Children's Song	97	Steel Guitar
4	Octave Piano 2	51	Analog Bell	98	12 String Guitar
5	Piano & Choir	52	Stereo Analog Bell	99	Detuned Steel Guitar
6	Grand Piano / W	53	Music Box	100	Jazz. Guitar
7	Analog Piano	54	Vibraphone	101	Clean Guitar
8	Bright Piano	55	Vibraphone / W	102	Stereo Clean Guitar
9	Bright Piano 2	56	Vibraphone & Bell	103	Soft Clean Guitar
10	Stereo Bright Piano	57	Vibraphone & Harpsichord	104	Chord Clean Guitar
11	Detuned Piano	58	Marimba	105	Muted Guitar
12	Chorus Piano	59	Marimba / W	106	Stereo Muted Guitar
13	Bright Piano / W	60	Sine Marimba	107	Chord Muted Guitar
14	Bright Piano 2 / W	61	Stereo Marimba	108	Exaggerate Guitar
15	Piano & Vibraphone	62	Marimba & Vibraphone	109	Dance Lead
16	Electric Grand Piano	63	Wood Drum	110	Distortion Guitar
17	Electric Grand Piano / W	64	Xylophone	111	Analog Distortion Guitar
18	Stereo Synth E.Piano	65	Tubular Bells	112	5Th Distortion
19	Honky-Tonk Piano	66	Tubular Bells 2	113	Guitar Harmonics
20	Honky-Tonk Dark	67	Tubular Bells 3	114	Acoustic Bass
21	Honky-Tonk / W	68	Rotate Octave	115	Acoustic Bass 2
22	Honky-Tonk 2 / W	69	Synth Organ Staccato	116	Acoustic Bass Detuned
23	E.Piano	70	Dulcimer	117	Velocity Crossfade Bass
24	Stereo E.Piano	71	Drawbar Organ	118	Jazz Style
25	50's E.Piano	72	Stereo Drawbar Organ	119	A.Bass & Mute G.T.
26	E.Piano / W	73	Soft Stereo Drawbar Organ	120	Finger Bass
27	E.Piano 2 / W	74	Mellow Drawbar Organ	121	Finger Bass 2
28	E.Piano 3 / W	75	Bright Drawbar Organ	122	Dark Finger Bass
29	E.Piano 4 / W	76	Percussive Organ	123	Detuned Finger Bass
30	E.Piano 2	77	Percussive Organ Detuned	124	Velocity Bass
31	Detuned E.P.	78	Rock Organ	125	Bass & Distortion Guitar
32	Detuned E.P. 2	79	Church Organ	126	Pick Bass
33	Harpsichord	80	Detuned Church Organ	127	Pick Bass 2
34	Harpsichord / W	81	Octave Church Organ	128	Mute Pick Bass
35	Harpsichord Octave	82	Octave Church Organ 2	129	Pick & Finger Bass
36	Harpsichord Octave 2	83	Digital Organ	130	Pick Bass & Clean Guitar
37	Harpsichord Off	84	Analog Organ	131	Detuned Pick Bass
38	Clavichord	85	Reed Organ	132	Fretless Bass
39	Stereo Clavichord	86	Stereo Reed Organ	133	Fretless Bass 2
40	Clavichord / W	87	Accordion	134	Slap Bass
41	Clavichord Wah	88	Accordion 2	135	Slap Bass 2
42	Synth Clav	89	Stereo Accordion	136	Slap Bass 3
43	Celesta	90	Harmonica	137	Slap Bass 4
44	Dark Celesta	91	Dark Harmonica	138	Synth Bass
45	Celesta & Sine	92	Tango Accordion	139	Synth Bass 2
46	Reecho Bell	93	Dark Tango Accordion	140	Synth Bass 3
47	Celesta & Music Box	94	Nylon Guitar	141	Synth Bass 4

142	Violin	189	Trumpet 2	236	Shakuhachi 2
143	Violin 2	190	Dark Trumpet	237	Whistle
144	2 Violin	191	Wah Trumpet	238	Whistle 2
145	Viola	192	Trombone	239	Ocarina
146	Viola 2	193	Trombone 2	240	Ocarina 2
147	2 Viola	194	Tuba	241	Square Lead
148	Cello	195	Tuba 2	242	Square Lead 2
149	Cello 2	196	Muted Trumpet	243	Square Lead 3
150	Contrabass	197	Muted Trumpet 2	244	Analog Lead
151	Contrabass 2	198	Horn	245	Lead Sine
152	Tremolo Strings	199	Horn 2	246	Analog Electric
153	Tremolo Strings 2	200	Stereo Synth Brass	247	Slow Square Lead
154	Pizzicato Strings	201	5th Horn	248	Analog Classic Lead
155	Pizzicato Strings 2	202	Brass Ensemble	249	Thick Square
156	Orchestral Harp	203	Majestic Unison	250	Quint
157	Orchestral Harp 2	204	Synth Brass	251	Sine Solo
158	Stereo Harp	205	Synth Brass 2	252	Pulse Lead
159	Timpani	206	Synth Brass 3	253	Mellow Wind
160	Timpani 2	207	Synth Brass 4	254	80's Digital
161	Strings Ensemble	208	Synth Brass 5	255	Classic TRI
162	Strings Ensemble 2	209	Octave Synth Brass	256	Stereo Analog Wind
163	Stereo Strings	210	Soprano Sax	257	Sawtooth Lead
164	Stereo Strings 2	211	Soprano Sax 2	258	Sawtooth Lead 2
165	Synth Strings	212	Alto Sax	259	Stereo Sawtooth
166	Synth Strings 2	213	Alto Sax 2	260	Stereo Sawtooth 2
167	Synth Strings 3	214	Tenor sax	261	Electronic Lead
168	Stereo Synth Strings	215	Tenor sax 2	262	Psychedelic
169	Stereo Synth Strings 2	216	Baritone Sax	263	80's Synth
170	Analog Orchestra	217	Baritone Sax 2	264	5Th Analog
171	Analog String	218	Oboe	265	Vitality
172	Slow Strings	219	Sweet Oboe	266	5th Sawtooth
173	Choir Aahs	220	English Horn	267	Comedy
174	Dark Aahs	221	English Horn 2	268	Fazli Lead
175	Stereo Aahs	222	Bassoon	269	80's Sawtooth
176	Stereo Aahs 2	223	Bassoon 2	270	Wind Chimes
177	Mellow Choir Aahs	224	Clarinet	271	5Th Digital Age
178	Aahs & SynStr	225	Clarinet 2	272	5th Square
179	Big Aahs	226	Piccolo	273	Stereo Pulse
180	Analog Sound	227	Flute	274	Analog Signal
181	Voice Ooh	228	Flute 2	275	Stereo Electronic Lead
182	Synth Voice	229	Recorder	276	Calliope Lead
183	Synth Voice 2	230	Recorder 2	277	Calliope Lead 2
184	Stereo Synth Voice	231	Pan Flute	278	Grand
185	Orchestra Hit	232	Pan Flute 2	279	Octave Pad
186	Orchestra Hit Stereo	233	Blown Bottle	280	Classic Lead
187	Orchestra Hit Octave	234	Blown Bottle 2	281	Sawtooth Wah
188	Trumpet	235	Shakuhachi	282	Chiff Lead

283	Chiff Lead 2	330	Bowed Pad 2	377	WindBells
284	Charang Lead	331	Metallic Pad	378	Artistic
285	Charang Lead 2	332	Dream	379	Digital Effect
286	Fruity Lead	333	Dpray	380	Abyss
287	Voice Lead	334	Digital Pad	381	Abyss 2
288	Voice Lead 2	335	Pipe Organ Pad	382	Spectrum
289	Fifths Lead	336	Scene Pad	383	Spectrum 2
290	Bass & Lead	337	Halo Pad	384	Sitar
291	Bass & Lead 2	338	Background	385	Detuned Sitar
292	Classic Synth	339	Background 2	386	Banjo
293	Electron Impac	340	Sweep Pad	387	Banjo 2
294	Single Sawtooth	341	Star Trek	388	The Shamisen
295	Analog Wind	342	Digital Wah	389	Shamisen 2
296	Electron Saw	343	Warm Wah	390	Koto
297	Analog Pulse	344	Pulse Wah	391	Koto 2
298	New Age Pad	345	Digital Distortion Wah	392	Kalimba
299	New Age Pad 2	346	Pulse	393	Kalimba 2
300	Rise	347	Pulse 2	394	Bagpipe
301	Praise	348	Rain	395	Fiddle
302	Intangible	349	Mysterious	396	Shania
303	Plump Sawtooth	350	Clusters of Stars	397	Tinkle Bell
304	Phase Shift	351	Additive Synthesis	398	Agogo
305	Phase Shift 2	352	Want To Go	399	Steel Drums
306	Warm Pad	353	Soundtrack	400	Bass Drum
307	Warm Pad 2	354	Lost Garden	401	Wood Block
308	Overture	355	Dad Away	402	Snare
309	Verve	356	Crystal	403	Taiko Drum
310	Fulness Pad	357	Drops Of Water	404	Melodic Tom
311	Overture Wah	358	Game	405	Synth Drum
312	Digital Age	359	Fly Into Space	406	Dynamics Jump
313	Analog Pad	360	Little Funny	407	Reverse Cymbal
314	Analog Pda2	361	Funny Hammer	408	Guitar Fret Noise
315	Analog Pad 3	362	Surface Of The Water	409	Breath Noise
316	Analog Wah	363	Atmosphere	410	Seashore
317	Sharp	364	Clouds	411	Bird Tweet
318	Warm Pulse	365	Brightness	412	Telephone Ring
319	Happiness Pad	366	Life	413	Helicopter
320	Sawtooth Pad	367	Fresh	414	Applause
321	Poly Synth Pad	368	Goblins	415	Gunshot
322	Poly Synth Pad 2	369	Fantasy	416	Fall
323	Modulation Distortion Wah	370	Space Trojan	417	Pipa
324	Choir Pad	371	Ceremony	418	Erhu
325	Choir Pad 2	372	Phonism	419	GuZheng
326	Plush Pad	373	Echoes	420	BanHu
327	Electric Pad	374	Empty	421	Standard Drum Set
328	5Th PAD	375	Deformation	422	Electronic Drum Set
329	Bowed Pad	376	Sci-fi		

Nº.		Nº.	Rhythm overview	Nº.	
1	8 Beat 1	48	Pop Groove	95	Piano Swing
2	8 Beat 2	49	Swing	96	Piano Jazz Waltz
3	8 Beat 3	50	Cool Jazz	97	Piano Twist
4	8 Beat 4	51	Pop Swing	98	Piano March
5	60's 8 Beat	52	Swing Fox	99	Piano 6/8 March
6	8 Beat Ballad	53	Big Band	100	Chinese Folk Rock
7	8 Beat Rock	54	Big Band Medium	101	Chinese R&B
8	16 Beat 1	55	Jazz Waltz	102	JiangNan Pop
9	16 Beat 2	56	Ragtime	103	Chinese Hip Hop
10	16 Beat Pop	57	Dixieland	104	Chinese Techno
11	16 Beat Shuffle	58	Quick Step	105	DaiZu Folk
12	Ballad	59	Country 1	106	8 Beat 1-2
13	Slow Ballad	60	Country 2	107	8 Beat 2-2
14	16 Beat Ballad	61	Pop Country	108	8 Beat 3-2
15	Unplugged	62	Country Rock	109	8 Beat 4-2
16	Rock	63	Country People	110	60's 8 Beat-2
17	Pop Rock	64	3/4 Country	111	8 Beat Ballad-2
18	Fast Rock	65	Country Waltz	112	8 Beat Rock-2
19	Slow Rock 1	66	Country Shuffle	113	16 Beat 1-2
20	Slow Rock 2	67	Country Boogie	114	16 Beat 2-2
21	Rock & Roll	68	Country Blues	115	16 Beat Pop-2
22	Heavy Metal	69	Country Quick Step	116	16 Beat Shuffle-2
23	Blues Boogie	70	Bluegrass	117	Ballad-2
24	Blues	71	Bossa Nova 1	118	Slow Ballad-2
25	Shuffle	72	Bossa Nova 2	119	16 Beat Ballad-2
26	Blues Shuffle	73	Rhumba	120	Unplugged-2
27	Rock Shuffle	74	Pop Rhumba	121	Rock-2
28	Charleston	75	Cha Cha	122	Pop Rock-2
29	Disco 1	76	Pop Cha Cha	123	Fast Rock-2
30	Disco 2	77	Tango	124	Slow Rock 1-2
31	Disco Funk	78	Jazz Samba	125	Slow Rock 2-2
32	Dance	79	Reggae	126	Rock & Roll-2
33	House 1	80	Pop Reggae	127	Heavy Metal-2
34	House 2	81	March 1	128	Blues Boogie-2
35	Rap	82	March 2	129	Blues-2
36	Euro Beat	83	German March	130	Shuffle-2
37	Hip Hop	84	6/8 March	131	Blues Shuffle-2
38	Techno	85	Polka	132	Rock Shuffle-2
39	Funky Pop	86	Pop Polka	133	Charleston-2
40	Jazz Funk	87	Waltz	134	Disco 1-2
41	Cool Funky	88	Slow Waltz	135	Disco 2
42	Soul 1	89	Vienna Waltz	136	Disco Funk-2
43	Soul 2	90	Musette	137	Dance-2
44	Soul Shuffle	91	Piano 8 Beat	138	House 1-2
45	Soul Blues	92	Piano Ballad	139	House 2-2
46	R & B	93	Piano Boogie	140	Rap-2
47	6/8 Gospel	94	Piano Jazz	141	Euro Beat-2

142	Hip Hop-2	165	Country 2-2	188	German March-2
143	Techno-2	166	Pop Country-2	189	6/8 March-2
144	Funky Pop-2	167	Country Rock-2	190	Polka-2
145	Jazz Funk-2	168	Country Folk-2	191	Pop Polka-2
146	Cool Funky-2	169	3/4 Country -2	192	Waltz-2
147	Soul 1-2	170	Country Waltz-2	193	Slow Waltz-2
148	Soul 2-2	171	Country Shuffle-2	194	Vienna Waltz-2
149	Soul Shuffle-2	172	Country Boogie-2	195	Musette-2
150	Soul Blues-2	173	Country Blues-2	196	Piano 8 Beat-2
151	R & B-2	174	Country Quick Step-2	197	Piano Ballad-2
152	6/8 Gospel-2	175	Bluegrass-2	198	Piano Boogie-2
153	Pop Groove-2	176	Bossa Nova 1-2	199	Piano Jazz-2
154	Swing-2	177	Bossa Nova 2-2	200	Piano Swing-2
155	Cool Jazz-2	178	Rhumba-2	201	Piano Jazz Waltz-2
156	Pop Swing-2	179	Pop Rhumba-2	202	Piano Twist-2
157	Swing Fox-2	180	Cha Cha-2	203	Piano March-2
158	Big Band-2	181	Pop Cha Cha-2	204	Piano 6/8 March-2
159	Big Band Medium-2	182	Tango-2	205	Chinese Folk Rock-2
160	Jazz Waltz-2	183	Jazz Samba-2	206	Chinese R&B-2
161	Ragtime-2	184	Reggae-2	207	JiangNan Pop-2
162	Dixieland-2	185	Pop Reggae-2	208	Chinese Hip Hop-2
163	Quick Step-2	186	March 1-2	209	Chinese Techno-2
164	Country 1-2	187	March 2-2	210	DaiZu Folk-2

№.		№.	Songs/Melodies	№.	
1	Cannon	41	ОронеК	81	Kuerchake Dance
2	Meditation	42	Aura Lea	82	Samba
3	Old French Song	43	House Of The Rising Sun	83	Tango
4	Minuet In G	44	Danny Boy	84	Kazakhstan Dance
5	Ode To Joy	45	I've Been Working On The Railroad	85	Naughty Polka
6	Wiegenlied	46	With Games	86	Four Little Swans
7	The Surprise Symphony	47	Way Home	87	Did You Ever See A Lassie
8	Swan Lake	48	Parting	88	Spring
9	The Four Seasons	49	Yankee Doodle	89	Impromptu
10	Carmen	50	Red River Valley	90	Gavotte
11	Joy To The World	51	Auld Lang Syne	91	Nocturne
12	Toy Symphony	52	When The Saints Go Marching In	92	Pizzicato Polka
13	Humorous	53	Twinkle Twinkle Little Star	93	Moment Musical
14	Kuckucks Walzer	54	Happy Birthday To You	94	The Rag-Time Dance
15	It's Been A Long, Long Time	55	Little Brown Jug	95	Laws
16	Old Folks At Home	56	Michael Row The Boat Ashore	96	Waltz No.6 "Petit Chien"
17	Oh! Susanna	57	Old King Cole	97	Rondeau
18	Jeanie With The Light Brown Hair	58	Jamaica Farewell	98	The Chrysanthemum
19	Bill Bailey, Won't You Please Come Home?	59	Тройка	99	Invention A 2 Voix
20	Annie Laurie	60	Cielito Lindo	100	Afternoon
21	From The New World	61	If You're Happy And You Know It	101	Basic Tutorial Beyer Piano 12
22	The Yellow Rose Of Texas	62	American Patrol	102	Old Folks At Home
23	Ave Maria	63	When Johnny Comes Marching Home	103	Jesus Saviour Pilot Me
24	My Old Kentucky Home	64	Green Sleeves	104	Wedding March From "Lohengrin"
25	Turkey In The Straw	65	Santa Lucia	105	Musette
26	Deck The Halls	66	Sweet Waltz	106	Bourree
27	Grandfather's Clock	67	Angels We Have Heard On High	107	Christmas Eve
28	America The Beautiful	68	Skip To My Lou	108	Cuckoo
29	The Sideway	69	London Bridge Is Falling Down	109	Basic Tutorial Beyer Piano 70
30	The Entertainer	70	Humpty Dumpty	110	Symphony No.9 In E Minor Large From "The New World"
31	The Old Gray Mare	71	Home On The Range	111	Als Die Alte Mutter Mich Noch lehrte Singen
32	Aloha Oe	72	This Old Man	112	Etude on Leger Lines 1
33	Solvejg's Cradle Song	73	Star Bright	113	Etude on Leger Lines 2
34	Camptown Races	74	Ten Little Indians	114	Butterfly
35	Carry Me Back To Old Virginny	75	Polly Wolly Doodle	115	Dancing Raindrops
36	The Blue Bells Of Scotland	76	Santa Claus Is Coming To Town	116	From a Story Book
37	O Sole Mio	77	Sippin' Cider Through A Straw	117	Comin' 'Round the Mountain'
38	Jingle Bells	78	La Cucaracha	118	At the Ball
39	Battle Hymn Of The Republic	79	Home Sweet Home	119	Puck
40	Silent Night	80	Up On The House Top	120	Cotton-pickin' Fingers

Troubleshooting

Error	Possible cause/solution
There is a little click in the speakers when you turn it on and off.	This is a perfectly normal phenomenon and has no effect on the product
The keyboard is on, but there is no sound in the keyboard when you press a tangent.	Check if the Master volume button is turned up. Check if there is a plug in the headphone output as it turns off the internal speakers
When using the sustain button there are sounds that have long sustain (reverberation), while other sounds have a shorter sustain	This is perfectly normal as the manufacturer has set each sound with the best sustain length, with this feature
There is an imbalance between right-hand sound and accompaniment	Check that accompaniment volume is right
The keyboard does not match with other instruments	Check that Transpose is in 00 or press Transpose+ and Transpose buttons at the same time
Keyboard tones are very light/sharp or very dark/deep	Check that Octave is in 00 otherwise press the octave+ and octave buttons simultaneously
The sound distorts or the keyboard turns itself off.	Check that you are using the correct power supply that was supplied with the keyboard or if the keyboard is used with batteries, check if the batteries are running low/used.
There is no sound in the connected amplifier or active speaker/monitor.	Check whether the master volume is up or whether the cable is plugged into Line Out. Also check that the in-line input is used on the connected system and that this is turned up.

Technical specifications

■Keyboard

- 61 standard keyboard keys with impact sensitivity

■Screen

- Backlit LCD Display

■Sounds

- 422 Sounds

■Rhythms/ accompaniments

- 210 Rhythms

■Song/melodies

- 120 Songs/Melodies

■ Dedicated buttons for choosing rhythms and sounds

- 5 Dedicated buttons for choosing rhythms - 5 Dedicated buttons for selecting sounds

■Effect control

- Dual voice, Sustain, Vibrato, O.T.S., Touch, Transpose, Tempo, Metronome, Function menu, Mixer, Data wheel, Pitch bend

■Recorder

- Record, play

■Accompaniment control

- Chord mode, Start/Stop, Sync start, Intro/Ending, FILL INA, FILL INB, Fade-in/Fade-out

■Melody learning function

- Lesson, Left, Right

■Registration memory

- 4 banks of 4 registrations - 16 in total

■Other features

- Power button, Master volume control, Rhythm/accusant volume control, MP3 playback function, built-in speakers

■External connections

- DC power input, Line output, Headphone output, Sustain pedal connection option, USB to HOST MIDI, USB to DEVICE (MP3)

■Intonation

- ≤3 cents

■Power supply

- DC12V, 1000mA

■ Speaker output power

- 8Wx2

■Standby consumption

- 120mA

■Specification

- 960x380x120(mm)

■Net weight

- 6.4Kg

■included

- Power supply, music rest, manual