

ARK-170

USER'S MANUAL

61KEYS MULTI-FUNCTION ELECTRONIC KEYBOARD

Notice

Please read this cautions carefully before use

Please read carefully the following notice (but are not limited to the following notice) so as to prevent the possible hurt to yourself or others and possible damages of this instrument and external parts of other equipment.



Using AC-adapter

Use only K150 AC-adapter to power your instrument from AC mains. Other adapter may cause serious damage to your instrument.

Do not open the instrument

Do not open the case of this instrument. Do not try to disassemble any part of it, nor change any interior parts. Should any abnormal function occur in use, please stop it immediately and send it to qualified personnel for maintenance service.

Location

Never leave the instrument in circumstance with excessive dust, vibration, low or high temperature (such as place under the direct sunlight, close to other source of heat, inside the car which under the direct sunlight) to prevent damages of both appearance and internal components of instrument.

Never leave the instrument in an unstable place to avoid falling down and cause the damages. Never place any container with liquid on the instrument to prevent the liquid flow into the instrument.

Maintenance

Clean the exterior with dry and soft cloth. Never use the cloth with paint, coating, organic or chemical solvent to clean the exterior of instrument.

Connections

Turn the master volume to '00' before connecting the power and adjust the volume gradually to the proper volume to prevent the damage of speakers.

Cautions

Never turn the volume to Max. Or the position that heard uncomfortable when you play, to prevent your hearing loss.

Never apply excessive force or place heavy objects on instrument nor apply excessive force to press keyboard, power button and jack.

The instrument must be unpacked by the adults before use to prevent baby or children from choking hazard. Please keep and store or discard the plastic packing.

Properly store or discard after unpacking. The inside small components are not suitable for the children under 3 years old.

This instrument is waterproof and moisture-resistant.



Statement

- Specifications are subject to change without notice.
- Should any description of product function be not specified in detail or some typing error occur, Please forgive us.
- This company retains the right which needs to revise because of the duty and finally interpretation.



It can be only used in this area that their height above sea level is below 2000 meters.



It can be only used in non tropical climate.

The power supply unit of network source should prevent from water-drop or water splash.

Appendix V Technical Specifications

Standard

- GB/T13837-2012 GB17625.1-2012
GB8898-2011

Display

- LED Display

Voice

- 300 kinds of voices

Rhythm

- 300 kinds of rhythm

Demo song

- 40 demo songs

Effect control

- Beat, sustain, vibrato, keyboard split, transpose, fine tuning

Record and program

- Record, play, program

Percussion

- 6 kinds of panel percussion

Accompaniment control

- Start/stop, sync, fill in, Intro/ending, tempo

Chord control

- Single chord, fingered chord, low chord, chord clear

Intelligent teaching

- One key teaching, follow teaching

Other control

- Power switch, master volume, rhythm volume

External jack

- DC9V power input, microphone input, headphone output

Diapason

- C2-C7

Intonation

- ≤5 cents

Format

- 948x315x105 (mm)

Net weight

- 5.0Kg

Power adapter

- DC9V 500mA

Quiescent current

- 120mA

Random accessories

- Adapter, song sheet holder, manual

Appendix IV Trouble Shooting

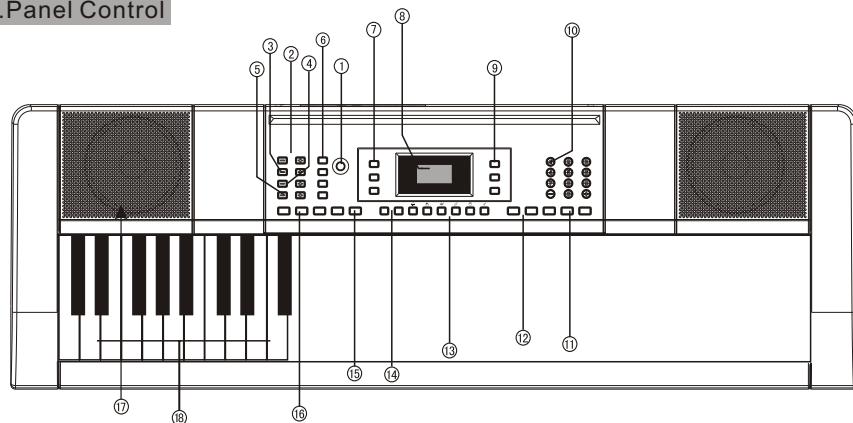
Trouble	Possible reason/eliminating method
Accompanying a slight noise in turning on/off power	Do not worry,it's the normal phenomenon.
There was no sound when you pressed keyboard on power state.	Check whether the master volume button was set at proper position or headphone out jack was connected with other equipment so the built-in speaker system cutted off automatically
Distorted or discontinued sound ,or even system halted	Using unqualified AC adaptor or low batteries. Please use the AC adaptor provided with this electronic keyboard or replace batteries.
The note and its tone quality of a same tone are a little different.	This is normal phenomenon caused by different tone sampling diapason.
When use the sustain function, some tone has long sustain but some has short sustain.	This is normal phenomenon because the best length of the sustain of the different tone has been set.
The main volume and accompaniment volume are abnormal.	Check the main volume control and the accompaniment volume control are set at the proper position.
In sync status,but the auto accompaniment does not work.	Now pressing a note at left-hand keyboard area (19 keys in the left of keyboard).
When use the external adapter, The electronic keyboard has no sound when power is on,the LED has no displaying	Check whether power socket has the electricity, the power adapter has been insertted well,or the power jack has the poor connection, the voltage is not enough.or the adaptor has been damaged.
When use the batteries,the keyboard has no sound when power is on, LED has no displaying.	Check whether batteries polarity was correct and the batteries have run down.
The pitch of note changes	Check whether the parameter of transpose is "00".
When use the mobilephone, the keyboard has the noise.	Mobilephone can disturb the keyboard,to avoid the noise,pls turn off the mobilephone or use it in far place.

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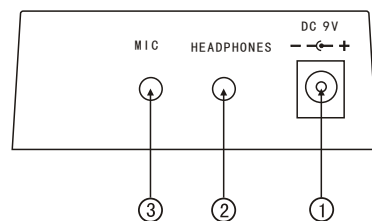
I. Panel Control and External Connections

I. Panel Control



- | | | |
|-----------------------------|------------------------------------|-----------------------------|
| 1. Power switch | 7. Record/program/Play | 13. panel percussion |
| 2. Master volume +,- | 8. LED display | 14. tempo +,- |
| 3. Rhythm volume +,- | 9. Voice/Rhythm/Demo | 15. Beat |
| 4. Fine tuning | 10. Number 0-9/+,- | 16. Start/stop/sync/fill-in |
| 5. Transpose +,- | 11. Sustain/Vibrato/Keyboard split | /intro/ending |
| 6. Single chord/fingered | 12. One key teaching/Follow | 17. Speaker |
| chord/low chord/chord clear | teaching | 18. Chord area |

External Functions



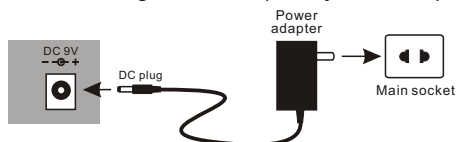
1. DC 9V in jack
2. Headphone
3. Microphone output

II. The preparation Performance

Power Requirement

1. Using AC-DC power adapter:

Please use the special power adaptor was equipped with this electronic keyboard or the power adaptor with DC 9V out voltage.500mA out current and cental anode plug. Insert the DC plug of power adaptor into the DC 9V power jack in the rear panel of electronic keyboard, then, insert the other end into Mains socket.(Notice: The input voltage of power adaptor must conform to the voltage of Mains),finally turn on power switch and start performance.



Appendix III Demo Songs

Number	The name of song	Number	The name of song	Number	The name of song
00	Turkey March	14	Chong Erfei	28	In rain
01	Red River Valley	15	Minuet in G major	29	long time ago
02	American Patrol	16	Spanish Matador	30	Magic Flute Overture
03	Susanna	17	Serenade - Haydn	31	Silent Night
04	Mozart Piano Sinata	18	Yankee Doodle	32	Hungary Dance
05	Mariage d'amour	19	Waltz	33	Western is gone
06	Waterside Adi Lina	20	Minuet	34	Fountain
07	Smile Polka	21	Rain Melody	35	Mary had a little lamb
08	Jingle Beus	22	Frosty	36	Music Box Dance
09	Lardesik March	23	Old French	37	Four Seasons
10	Mozart No.40	24	Blue Danube	38	Concerto Of Love
11	Clapping song	25	A small brown bottle	39	Destiny
12	Fur Elise	26	Hawthorn		
13	Katyusha	27	River Of Babylon		

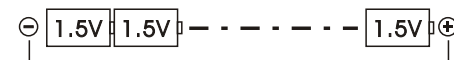
NO.	Name of rhythm	NO.	Name of rhythm	NO.	Name of rhythm	NO.	Name of rhythm	NO.	Name of rhythm
00	Soul 1	60	Swing 4	120	Waltz 2	180	Japanese Folk Music	240	CountryDance2
01	Soul 2	61	Swing 5	121	Waltz 3	181	Trip Hop1	241	CountryDance3
02	Soul 3	62	Swing 6	122	Waltz 4	182	Trip Hop2	242	World Fusion
03	Soul 4	63	Baiao	123	Jazz Waltz 1	183	Chamber pop1	243	Chinese traditional1
04	Soul 5	64	Bolero	124	Jazz Waltz 2	184	Chamber pop12	244	Chinese traditional2
05	Soul 6	65	Bossanova 1	125	Jazz Waltz 3	185	PopSwing1	245	Chinese traditional3
06	Soul 7	66	Bossanova 2	126	Country Waltz 1	186	PopSwing2	246	Thailand Rhythm
07	Soul 8	67	Bossanova 3	127	Country Waltz 2	187	PopSwing3	247	ModernWaltz1
08	Slow Soul 1	68	Bossanova 4	128	JazzSoul1	188	PopSwing4	248	ModernWaltz2
09	Slow Soul 2	69	Bossanova 5	129	JazzSoul2	189	PopSwing5	249	ModernWaltz3
10	Slow Soul 3	70	Calypso	130	JazzSoul3	190	PopSwing6	250	ModernWaltz4
11	Slow Soul 4	71	Habanera	131	JazzSoul4	191	Celtic Pop	251	Britpopwaltz1
12	Slow Soul 5	72	Reggae 1	132	JazzSoul5	192	Hawaiian Pop	252	Britpopwaltz2
13	Funkey soul 1	73	Reggae 2	133	JazzSoul6	193	SoftBossanova1	253	Britpopwaltz3
14	Funkey soul 2	74	Jorpo	134	JazzSoul7	194	SoftBossanova2	254	Contemporary Waltz1
15	Funkey soul 3	75	Tango 1	135	JazzSoul8	195	SoftBossanova3	255	Contemporary Waltz2
16	Funkey soul 4	76	Tango 2	136	Light Beat 1	196	SoftBossanova4	256	ModernSoul1
17	Funkey soul 5	77	Tango 3	137	Light Beat 2	197	SoftBossanova5	257	ModernSoul2
18	Funkey soul 6	78	Manbo 1	138	Light Beat 3	198	Mento	258	ModernSoul3
19	Funkey soul 7	79	Manbo 2	139	Light Beat 4	199	Shima Uta	259	ModernSoul4
20	Funkey soul 8	80	Rhumba 1	140	Light Beat 5	200	Reggae-Pop1	260	ModernSoul5
21	West Coast	81	Rhumba 2	141	SoulPsychedelic 1	201	Reggae-Pop2	261	ModernSoul6
22	Euro Soul	82	Rhumba 3	142	SoulPsychedelic 2	202	European Traditions	262	ModernSoul7
23	16 AOR 1	83	Rhumba 4	143	SoulPsychedelic 3	203	TangoPop1	263	ModernSoul8
24	16 AOR 2	84	Rhumba 5	144	SoulPsychedelic 4	204	TangoPop2	264	Classical Soul 1
25	16 Beat 1	85	Bequine	145	SoulPsychedelic 5	205	TangoPop3	265	Classical Soul 2
26	16 Beat 2	86	Salsa	146	SoulPsychedelic 6	206	Rhythm Mambo 1	266	Classical Soul 3
27	16 Beat 3	87	Merengue 1	147	SoulPsychedelic 7	207	Rhythm Mambo 2	267	Classical Soul 4
28	16 Ballad 1	88	Merengue 2	148	SoulPsychedelic 8	208	BritRhumba 1	268	Classical Soul 5
29	16 Ballad 2	89	Vallentao	149	Goth Psychedelic	209	BritRhumba 2	269	Contemporary R&b1
30	Pop Dance 1	90	Plena	150	Psychedelic swing	210	BritRhumba 3	270	Contemporary R&b2
31	Pop Dance 2	91	Lambada	151	Folkrock1	211	BritRhumba 4	271	Contemporary R&b3
32	Pop Dance 3	92	Bachata 1	152	Folkrock2	212	BritRhumba 5	272	Contemporary R&b4
33	Shuffle 1	93	Bachata 2	153	New century1	213	SoulBequine	273	Contemporary R&b5
34	Shuffle 2	94	Bachata 3	154	New century2	214	Chamber pop	274	Contemporary R&b6
35	8 Shuffle	95	Samba 1	155	New century3	215	Neo-Merengue1	275	Contemporary R&b7
36	Hard Rock	96	Samba 2	156	16 Pop 1	216	Neo-Merengue2	276	Contemporary R&b8
37	Slow Rock 1	97	Pop Samba 1	157	16 Pop 2	217	Big Beat	277	Deep Funk
38	Slow Rock 2	98	Pop Samba 2	158	Modern dance1	218	PlenaBeat	278	European Jazz
39	Pop Classic	99	Pop Samba 3	159	Modern dance2	219	Downtempo	279	70' Rock
40	Blues	100	Jazz Samba	160	Modern dance3	220	ElectricBachata 1	280	80' Rock
41	Twist	101	March 1	161	Modern dance4	221	ElectricBachata 2	281	16 SoftRock 1
42	Hard 3 Beat	102	March 2	162	Modern dance5	222	ElectricBachata 3	282	16 SoftRock 2
43	Love Ballad 1	103	March 3	163	8 Post Rock	223	FolkSamba1	283	16 SoftRock 3
44	Love Ballad 2	104	March 4	164	ClassicRock	224	FolkSamba2	284	16 BalladRock 1
45	Love Ballad 3	105	Polkal 1	165	JazzRock1	225	Jump Samba 1	285	16 BalladRock 2
46	Love Ballad 4	106	Polkal 2	166	JazzRock2	226	Jump Samba 2	286	Afro Dance 1
47	Euro Beat	107	Polkal 3	167	Traditional Pop	227	Jump Samba 3	287	Afro Dance 2
48	House 1	108	C&W 1	168	Country Blues	228	Afro Samba	288	Afro Dance 3
49	House 2	109	C&W 2	169	Indian Pop	229	Rock March1	289	JazzShuffle1
50	Swing Beat	110	Bluegrass	170	Hard 3 Rock	230	Rock March2	290	JazzShuffle2
51	8 Ballad	111	Country 1	171	Classical ballad1	231	Rock March3	291	8 JazzShuffle
52	Step	112	Country 2	172	Classical ballad2	232	Rock March4	292	Heavy metal rock
53	Big Band 1	113	Country 3	173	Classical ballad3	233	PolkaBlues1	293	RockDance1
54	Big Band 2	114	Middle East	174	Classical ballad4	234	PolkaBlues2	294	RockDance2
55	Conbmo 1	115	China 1	175	Light Ballad	235	PolkaBlues3	295	Middle East Pop
56	Conbmo 2	116	China 2	176	Deep House	236	CountryRock1	296	Soul Blues
57	Swing 1	117	China 3	177	Hard House	237	CountryRock2	297	Glam Rock
58	Swing 2	118	Thailand	178	House dance	238	Jazz Blues	298	Hard House
59	Swing 3	119	Waltz 1	179	8 Pop	239	CountryDance1	299	Light Ballad

II. The preparation before performance

Caution:When you don't use this electronic keyboard, you should pull out the plug of power adaptor from power socket safely to avoid the parts trouble or other accident for long-term charging

2.Using batteries:

Open the battery compartment cover located on the bottom case of the instrument . Insert 6pcs AA batteries, being carefully to follow the polarity marking on the cabinet. Replace the compartment cover, making sure that it locks firmly in place..



Six batteries altogether

Caution : Don't use different kinds of batteries at the same time and mix new and old batteries for use.The volume will go down and the timbre will be bad if the electrical quantity of batteries isn't enough,you have to replace the new batteries now.Please take out the batteries as to avoid possible damage caused by the batteries leakage if you don't use the electronic keyboard for long time.

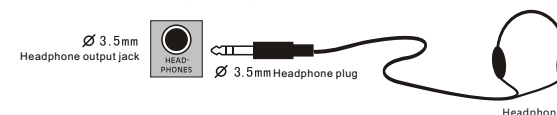
Accessories jacks

1.Using Microphone

A standard electret microphone (3.5mm) can be plugged into microphone jack .

2.Using headphone

Insert headphone plug into[HEADPHONE] jack in back of electronic keyboard. The internal speaker system of electronic keyboard cuts off automatically now. Using headphone doesn't interfere with others during performance,it is special for personal monitor and exercising at night.



Notice:The above external device wasn't equipped with this keyboard, users have to buy themsevles,please understand this point,tks.

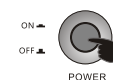
III. Basic Operation

I. Basic operation method

1.Turn on power

Press[Power]button to turn on power after power adaptor was well connected or batteries were installed correctly.

Press [Power] button again,the button bounces,the power was closed.



III. Basic Operation

2. Master Volume

This keyboard has 9 levels volume from 00-08. The default value of the main volume is 07, press the [+] and [-]. The main volume will increase or decrease correspondingly. And press [+] together with [-] the main volume will recover the default value automatically.

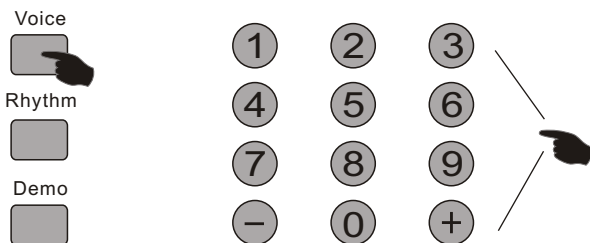
Master Volume



Voice

Selecting Voice

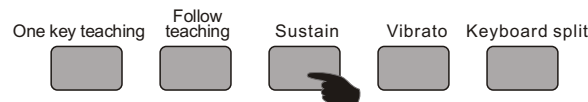
This keyboard has 300 different kinds of voices. Press "Voice" button to start to choose another voice, you can press the 0-9 number to change it or press "+/-" to change it.



Effect and Control

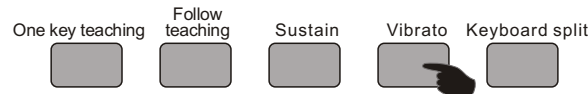
1. Sustain

Press[Sustain]button to start sustain function. The prolonged effect will occur if you play with white and black keys at this time. Pressing[Sustain] button again to exit sustain function.



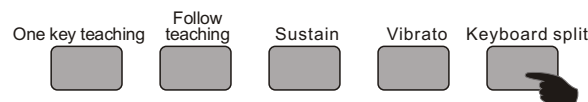
2. Vibrato

Press[Vibrato]button to start vibrato function, the trembling effect will occur if you play with white and black keys at this time. Pressing[Vibrato]button again to exit vibrato function.



3. Keyboard Split

Press[Keyboard Split]button in normal state to enter the double keyboard mode, the keyboard was divided into left and right two separate keyboards from 24th keys in left. The right hand keyboard tones can be adjusted by pressing number buttons, 24pcs keys tones are pre-setting tones in left hand keyboard.



Appendix I Voice

NO.	Name of tone	NO.	Name of tone	NO.	Name of tone	NO.	Name of tone	NO.	Name of tone
00	Acoustic Grand Piano	60	French Horn	120	Guitar Fret Noise	180	Bright Violin	240	Psychedelic Synth Lead
01	Bright Acoustic Piano	61	Brass Section	121	Breath Noise	181	Stringed violin	241	Vibraphone Synth Lead
02	Electric Grand Piano	62	Synth Brass 1	122	Seashore	182	Trill violin	242	Marimba Synth Lead
03	Honky-tonk Piano	63	Synth Brass 2	123	Bird Tweet	183	Electronic violin	243	Metal FX
04	Rhodes Piano	64	Soprano Sax	124	Telephone Ring	184	Large violin	244	Electronic FX
05	Chorused Piano	65	Alto Sax	125	Helicopter	185	rhythm Orchestra	245	Electronic String Ensemble
06	Harpsichord	66	Tenor Sax	126	Applause	186	Pizzicato Violin	246	Wind FX
07	Clavichord	67	Baritone Sax	127	Gunshot	187	Pizzicato Ensemble 1	247	Clarinet FX
08	Celesta	68	Oboe	128	Percussion	188	Pizzicato Ensemble 2	248	Organ FX
09	Glockenspiel	69	English Horn	129	Rhythm electric Piano	189	Percussion band	249	Crystal FX
10	Music box	70	Bassoon	130	Baritone Xylophone	190	Baritone Synth Contrabass	250	Synth Shamisen
11	Vibraphone	71	Clarinet	131	Clean Piano	191	Bass Flute	251	Electronic Shamisen
12	Marimba	72	Piccolo	132	Bright Dulcimer	192	Distortion Contrabass	252	Bright Sitar
13	Xylophone	73	Flute	133	Rhythm Grand Piano	193	Contrabass Lead	253	Whistle Accord
14	Tubular Bells	74	Recorder	134	Traditional Piano	194	Violin Lead	254	rhythm Nation
15	Dulcimer	75	Pan Flute	135	Aluminium jean	195	Cello Lead	255	Bright Koto
16	Hammond Organ	76	Bottle Blow	136	Rock Grand Piano	196	Pizzicato rhythm	256	Koto Lead
17	Percussive Organ	77	Shakuhachi	137	Electronic organ	197	high Harp	257	Diplophonia Koto
18	Rock Organ	78	Whistle	138	Psychedelic electronic	198	Harp ensemble	258	Baritone Koto
19	Church Organ	79	Ocarina	139	Water jean	199	Synth Harp	259	Synth Koto
20	Reed Organ	80	Lead 1 (square)	140	Bright Guitar	200	Baritone Trumpet	260	Environmental Lead
21	Accordian	81	Lead 2 (sawtooth)	141	Orchestra piccolo	201	Trumpet ensemble	261	Metal Lead
22	Harmonica	82	Lead 3 (callopie lead)	142	Heavy metal guitar	202	rhythm Trumpet	262	Orchestra Lead
23	Tango Accordion	83	Lead 4 (chiff lead)	143	Crystal guitar	203	high Trumpet	263	Glockenspiel Lead
24	Acoustic Guitar (nylon)	84	Lead 5 (charang)	144	Queer electric Piano	204	Synth Trumpet	264	Bass Lead
25	Acoustic Guitar (steel)	85	Lead 6 (voice)	145	Bright bass	205	Baritone Trombone	265	Fifths Lead
26	Electric Guitar (jazz)	86	Lead 7 (fifths)	146	Rock Electric Bass	206	Trombone ensemble	266	Wind Lead
27	Electric Guitar (clean)	87	Lead 8 (bass+lead)	147	Rhythm Electric Bass	207	rhythm Trombone	267	Atmosphere Lead
28	Electric Guitar (muted)	88	Pad 1 (new age)	148	Psychedelic Bass	208	rhythm Trombone	268	Sharp Lead
29	Overdriven Guitar	89	Pad 2 (warm)	149	Heavy metal bass	209	baritone Trombone	269	Bright Lead
30	Distortion Guitar	90	Pad 3 (polysynth)	150	Magic electronic	210	Synth Trombone	270	East Nation Pad
31	Guitar Harmonics	91	Pad 4 (choir)	151	Bright violin	211	Violin French Horn	271	Atmosphere Pad
32	Acoustic Bass	92	Pad 5 (bowed)	152	Atonic violin	212	French Horn ensemble	272	Electric bass Pad
33	Electric Bass (finger)	93	Pad 6 (metallic)	153	Heavy bass orchestra	213	Electronic French Horn	273	electric Piano Pad
34	Electric Bass (pick)	94	Pad 7 (halo)	154	Synth clarinet	214	Synth French Horn	274	Clean Guitar Pad
35	Fretless Bass	95	Pad 8 (sweep)	155	Interactive Lead	215	Psychedelic Synth Brass	275	Western Pad
36	Slap Bass 1	96	FX 1 (rain)	156	For the keyboard	216	Distortion Synth Brass	276	Sci-fi Pad
37	Slap Bass 2	97	FX 2 (soundtrack)	157	Bagpipes	217	Vibraphone Synth Brass	277	Metal Sci-fi Pad
38	Synth Bass 1	98	FX 3 (crystal)	158	Suona	218	Synth Muted Trumpet	278	Clarinet Pad
39	Synth Bass 2	99	FX 4 (atmosphere)	159	Pipa	219	Rock Synth Brass	279	Electronic dance Pad
40	Violin	100	FX 5 (brightness)	160	Church Piano	220	Soprano Sax ensemble	280	Double Kalimba
41	Viola	101	FX 6 (goblins)	161	Church electric Piano	221	rhythm Soprano Sax	281	Bright Kalimba
42	Cello	102	FX 7 (echoes)	162	Synth Piano	222	Synth Soprano Sax	282	Crystal Kalimba
43	Contrabass	103	FX 8 (sci-fi)	163	Baritone Piano	223	National Sax	283	Synth Kalimba
44	Tremolo Strings	104	Sitar	164	Piano PAD	224	Metal Sax	284	Electronic Bagpipe
45	Pizzicato Strings	105	Banjo	165	String Piano	225	Baritone Sax ensemble	285	Wind Bagpipe
46	Orchestral Harp	106	Shamisen	166	Metal Piano	226	Crystal Sax	286	high Bagpipe
47	Timpani	107	Koto	167	Light rhythm Piano	227	Soft Baritone Sax	287	Bright Bagpipe
48	String Ensemble 1	108	Kalimba	168	electric Piano Pad	228	Synth Baritone Sax	288	Orchestra Bagpipe
49	String Ensemble 2	109	Bagpipe	169	Classical piano	229	Heavy metal Sax	289	Baritone Bagpipe
50	Synth Strings 1	110	Fiddle	170	Guitar organ	230	Church Oboe	290	Environmental Shanai
51	Synth Strings 2	111	Shanai	171	An electric guitar	231	Bass Oboe	291	Baritone Shanai
52	Choir Aahs	112	Tinkle Bell	172	synthesis Nylon Guitar	232	Oboe ensemble	292	Tenor Shanai
53	Voice Oohs	113	Agogo	173	Synthetic electronic guitar	233	Bright Oboe	293	high Shanai
54	Synth Voice	114	Steel Drums	174	Bright clean Guitar	234	distortio oboe	294	Synth Shanai
55	Orchestra Hit	115	Woodblock	175	Orchestra Guitar	235	English Horn ensemble	295	Bright Steel Drums
56	Trumpet	116	Taiko Drum	176	Psychedelic Guitar	236	Pizzicato English Horn	296	Steel Drums Lead
57	Trombone	117	Melodic Tom	177	Bright organ	237	Diplophonia English Horn	297	Lyric Steel Drums
58	Tuba	118	Synth Drum	178	Pick organ	238	Bright English Horn	298	Orchestra Steel Drums
59	Muted Trumpet	119	Reverse Cymbal	179	Synth accordion	239	Synth English Horn	299	Synth Steel Drums

Recording

1. Press [Record] button to enter record mode. Press any key or drums sound buttons can start record at this time. The maximum record quantity is 48pcs notes. When the record is full, the LED displays "FULL", the next note can't be recorded continuously. The previous memory will be cleared and new record will start when you press keys in record state.

2. Press [Play] button, the recorded notes can be played.

3. Press [Program] button to enter into rhythm programming mode. Pressing 8 kinds of panel percussion or keyboard to program a paragraph of rhythm. This edited rhythm can record 32pcs drum points at the most. Pressing [Play] button to play the edited drum sound in sequence, forming a kind of self-made rhythms after programming was finished. The best rhythm play effect can be got by adjusting [Temp+/-] buttons. Everytime you press [Program] button, it will clear last memory and enter into programming mode again.



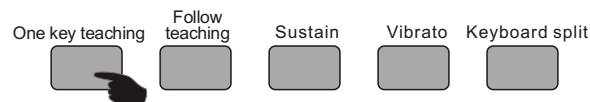
Luminous Teaching Function:

One key teaching: To choose the song you need to learn by number buttons and [+], [-] buttons after [One key teaching] button was pressed down. The LED display screen displays present song No.,

One key teaching function is special for the learning of songs' duration, the luminous keyboard will light based on the main melody's notes, it will remind the note that should be played at present. You can play the keyboard based on the luminous keyboard guiding. It doesn't have requirement about the pitch and correctness of notes, it allows you to play wrong keys, but the keyboard still play correct notes, moreover, LED display screen displays correct keys' value of notes.

One song was learned over, it will repeatedly learn present song or next song automatically.

Pressing [Start/Stop] button or pressing [One key teaching] button again to exit the teaching function.



Follow teaching: Pressing number buttons and [+], [-] buttons to choose the songs you need to learn after [Follow teaching] button was pressed down. The LED display screen displays song NO.,

Follow teaching is special for following to play correct notes to proceed with learning. You can proceed with play based on Demo now, the luminous keyboard will light based on main melody's notes, it will remind the notes that should be played at present, following luminous guiding to proceed with correct play. You also can learn based on the keys' value of notes displays in LED screen, the song can continue to play if you play corresponding notes, or else, the song will be in waiting state all the time until you play correct notes.

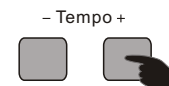
Notice: The correct played keys' notes can be played, there is no response to the wrong played keys in Following teaching function state. It will repeatedly learn present song or next song automatically.

Pressing [Start/Stop] button or pressing [Following teaching] button again to exit the teaching function.



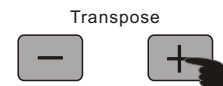
4. Tempo

Press [Tempo+/-] button to adjust the play tempo of rhythm, beat and demo, there are 210pcs segments in total. The adjustment range is 30-240. Press [Tempo+/-] button again, it recovers tempo default value 120.



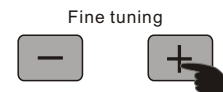
5. Transpose

Press [Transpose+/-] button, the corresponding musical scale goes up or goes down for one note when you play with black and white keys. You can adjust the musical scale for 6 levels upwards and downwards. The system will recover the default keyboard tone automatically if you press [Transpose+/-] button at the same time.



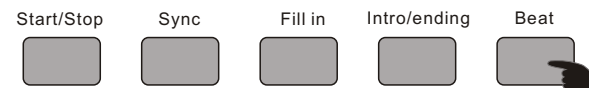
6. Fine tuning

Press the Fine tuning + or - buttons to micro control the tone within the range of 99 levels between the two connecting tones. Keep pressing + or - buttons to increase or decrease the levels continuously. Press the + and - buttons simultaneously to return to the level of initially set level.



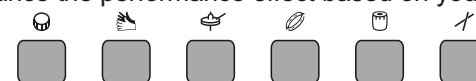
7. Beat

Press [Beat] button, the tick-tock beat sound will occur. There are 4 kinds of beats for choice. The metronome effect will be added in performance. Everytime you press [Beat] button, the function is: 1/4 beat, 2/4 beat, 3/4 beat, 4/4 beat. Pressing [Beat] button to exit beat function if tempo value displays at present.



8. Panel Percussion

Press panel percussion buttons (there are 8 kinds of panel percussion in total), the corresponding percussion can occur. You can fill in the corresponding percussion to enhance the performance effect based on your requirement.



Panel percussion list

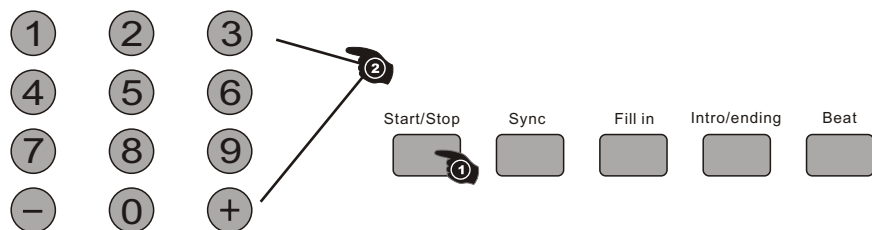
Snare drum	Clap	Cymbal	Tambourine	Timpani	Claves

III. Basic Operation

Rhythm and their relative Functions

1.Start /stop

The keyboard has 300 kinds of rhythm for your choice. For detailed rhythm, please refer Appendix II-Rhythm List. Press [Rhythm] button to enter rhythm selection function, LED displays current rhythm no., You also can choose rhythm by choosing number 0-9 and inputting numbers or by [+/-] buttons.



2.Sync function

Press Sync button to start the Sync effect and press any key of left 19 keys to have Rhythm when you play. In this case, the auto chord will be effect when you play any key in left 19 keys if chord effect is started. Press the Sync button to end the Rhythm effect and start sync effect when rhythm is being played. Press Sync button to end sync effect when sync effect is running.



3. Fill in function

A length of interlude will be filled in to enhance the performance effect if you press the [FILL IN] button during the rhythm play process, then, continue original rhythm to perform.



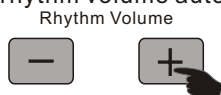
4. Intro/ending

Press Intro/ending button before rhythm was started, this keyboard will perform a length of relative intro, then, returns back to relative normal rhythm. Press this button after rhythm was started, the keyboard will perform a length of relative ending to stop.



5.Rhythm Volume

This keyboard has 8(0-7) levels rhythm volume in total, the default rhythm volume is 06. Pressing [Rhythm Volume +/-] button to adjust volume. LED has relative display when volume was adjusted. Pressing this button at the same time, the system will recover default rhythm volume automatically.

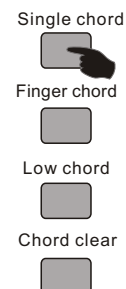


III. Basic Operation

Chord accompaniment

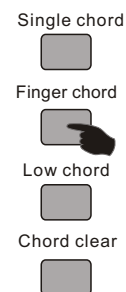
1.Single Chord

Press [Single chord] button under rhythm started state to enter single single auto chord function. Press different fingering in 1-19 keys of chord keyboard area at this time, you can hear different chord accompaniment. Press [Start/Stop] button to exit single chord.



2.Fingered Chord

Press [Fingered] button under rhythm started state to enter finger auto bass chord function. Press different fingering in 1-19 keys of chord keyboard area, you can hear different chord accompaniment. Pressing [Start/Stop] button to exit finger chord.



3.Low Chord

Press [Low Chord] button in chord state, the heavy low sound effect will occur, press this button again, it will recover original low chord effect.

4.Chord Clear

Press [Chord Clear] button after chord was started, the chord accompaniment sound stops, the rhythm continues to play.

