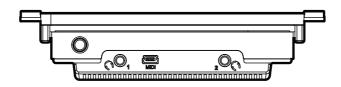


BASIC α User's Manual





Important Safety and Installation Instructions



Information related to the possible electric shock, fire hazard and personal injury has been included in this list. Please read the contents carefully and use the product safely.

- 1. Be well-acquainted with this user's manual before using the product.
- Please use the exclusive power supply. When obliged to use the other power supply, be careful of the output voltage and polarity.
- 3. Do not dismantle the product under any circumstances. Dismantle at discretion may not guarantee the warranty repair.
- 4. Keep the power cord away from the other objects. Make sure the cord is not pressed under any heavy objects or piano.
- When using the adapter or headphones, connect or release with grasping the plug instead of cable
- 6. Place the product away from the direct sunlight, humid, hot or cold air current.
- The power supply cord should be unplugged from the outlet when left unused for a long time.
- 8. Please ask help to the dealer from whom you purchased for any after service.
- This product is operating independently, but it can be damaged by the difference of the input/output characteristics when connected with external device.
- 10. Refrain from playing long time with loud sound or uncomfortable posture, it can be the reason of your hearing loss.
- 11. Place the product at the location or position with smooth natural air flow for proper ventilation.
- 12. Pay attention to any liquid like water or coffee not to be spilled. If spilled, do not disassemble the product, and ask for repair. Turing on the system under the moisture may damage the key sensors or product.
- 13. For the below cases, the product should be serviced by the qualified service personnel or the dealer from whom you purchased.
 - When the power supply cord or the plug has been damaged.
 - When the metal material has fallen, or liquid has been spilled on the product.
 - · When the inner parts have been exposed.
 - · When the product does not operate correctly.
 - · When the exterior of the product has been fatally damaged.
- 14. Standard tuning is required for ensemble of acoustic and silent play together.
- 15. For correct operation, it is essential to do the initializing process after the key height adjustment or action adjustment.
- 16. There is a little heat generation in device during use, but it is not a problem of the product.

GENIO BASIC α

After the installation of GENIO BASIC α , while you keep the acoustic piano functions, and it becomes a new concept piano which enables you to play the piano without external sound and enjoy your own piano playing, it has multi functions of acoustic, silent and digital piano. You can select various sounds with various types of music in anytime, anyplace.

Especially, GENIO BASIC α has 10 Demo songs helping you to acquaint yourself with piano performance and accompaniment. Please refer to the Demo song list on this manual, and make use of them in piano exercise and lessons, and then, it will be the piano class with full of fun and impression. Using these functions, in order to be well accustomed to use this product, please read this user's manual carefully for your satisfaction of the performance of this product.

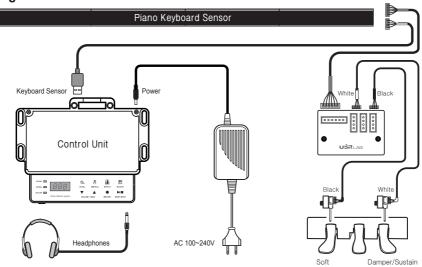
The buttons of GENIO BASIC α are the new concept touch sensor types, and operate sensitively by slight touch of the English letters below the icons.

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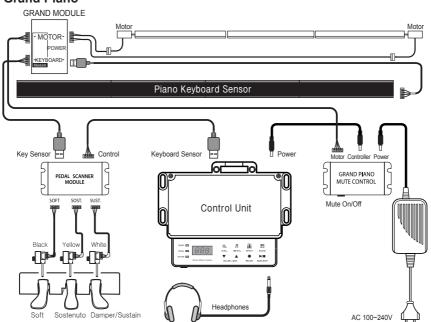
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Connection Diagram of GENIO BASIC α

Upright Piano

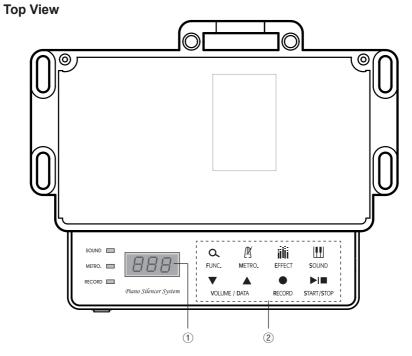


Grand Piano



Name & Function of each part

CONTROL UNIT

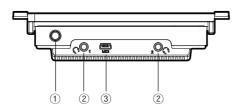


- 1) **DISPLAY:** Shows the selected mode and value.
- **② TOUCH BUTTONS**

FUNC. METRO.		EFFECT	SOUND	
Function Metronome		Effect selection	Sound selection	
VOLUME / DATA		RECORD	START / STOP	
Volume control / Data selection		Record	For recording, Playback etc.	

CONTROL UNIT

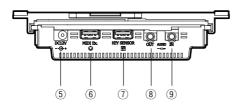
Front View



- ① POWER BUTTON: Turns the system on and off
- ② HEADPHONES: 2 headphones are available
- ③ USB PORT : Connect with computer

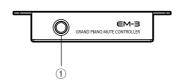
(Device : USB MIDI)

Rear View



- ⑤ **DC JACK**: System power is supplied from power adapter
- ⑥ MIDI Ex: Connects with external MIDI device through extra MIDI I/O Module(Option)
- TKEY SENSOR: Connect with key sensor module with signal cable
- 8 AUDIO OUT: Audio signal output
- AUDIO IN: Audio signal input

Grand Piano Mute Controller: for Grand System



① POWER BUTTON : Pressing the button converts to mute-on or mute-off

Originating information

Make sure your power supply complies with the details listed on the accompanying power supply (12V DC plug).

Ready to use

After installation, the system should be optimized to be used by the initializing process (Page 16), and it can be used with adequate connection of power supply.

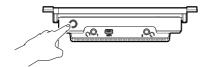
A. Taking out & confining GENIO BASIC α control unit



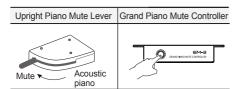
Pressing softly the GENIO BASIC α control unit front and it comes out.



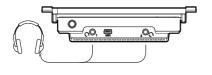
Confining by pushing GENIO BASIC α control unit front lightly.



1) Power on by pressing the POWER BUTTON.



- 2) Mute Control
 - Upright Piano Mute Lever : Pull the mute lever to mute position
 - Grand Piano Mute Controller: Power on for mute-on, and power off for mute-off of Acoustic piano.



- NOME CHARLES STATE STATE OF THE STATE OF THE
- 3) Plug your headphones into one of the headphone jacks and wear the headphones.
- 4) Select adequate volume and sound, and play the piano.

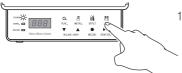
How to try out various Functions

You can enjoy GENIO BASIC α as a digital piano with various sounds and effects, and also as a sound module with GM sounds contained

A. Sound select

You can select one of 17 Pre-set sounds and 128 GM Sounds.

* Pre-set sounds can be changed only by the manufacturer(Users are not allowed to change it).



1) Press [SOUND] button for the sound mode, and the upper left [SOUND] lamp and upper right [SOUND] button will highlight the button icon.

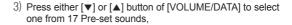


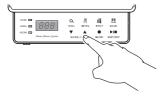
Press [FUNC.] buttons to select from Pre-set sounds or GM sounds.



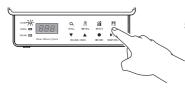








- 4) GM Sounds need just one channel at a time (Other channels are off mode)
 - * Press [A] button to move from a low numbers to a high number.
 - * Press [▼] button to move from a high number to a low number.
 - * Press and hold either [▼] or [▲] buttons to move through the sounds faster.



5) Press [SOUND] button after selecting the desired sound and the setting will then be saved. The display will return to the home mode automatically.

Pre-set sounds

NO.	Pre-Set
P1	Piano 1
P2	Piano 2
P3	E. Piano 1
P4	E. Piano 2
P5	E. Piano 3
P6	Vibraphone
P7	Celesta
P8	Tinkle Bell
P9	Harpsichord

NO.	Pre-Set
P10	Sound Track
P11	Strings
P12	Pan Flute
P13	Pipe Organ
P14	Church Organ
P15	Organ 3
P16	Tubular Bell
P17	Drum



· Please refer to the GM sounds chart.

How to use the functions by the keys

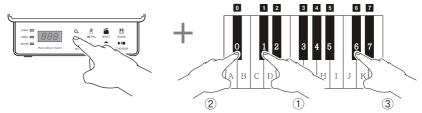
Due to the limited button numbers, in order to use the various functions, press the key like below, while pressing and holding the [FUNC.] BUTTON, and then you can use various sounds, effects and transpose.

A. How to Select 128 GM Sounds

- 1) While pressing and holding the [FUNC.] BUTTON, press one (or two, or three) black keys assigned with the number like the picture in below, and release the [FUNC.] BUTTON.
 - * If the compounded number is bigger than 127, 000: Piano 1 is automatically selected.
 - * Please refer to the GM Chart (Page 16) for selecting sound number.
 - * The sound exceeding from the real instrument's range of note can be different from the real sound.
 - * The instrument selected by the keys is a single channel.

Ex) Selecting 106 sound

While Pressing and holding [FUNC.] BUTTON, press C# for 1, A#0 for 0, and C#2 for 6, and release the [FUNC.] BUTTON for setting.



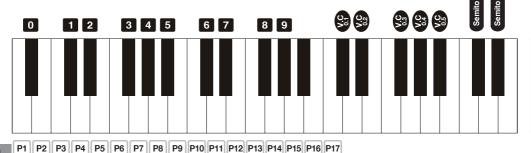
B. Velocity Curve

The touch feeling of GENIO BASIC α can be changed to accommodate the players with a lighter or heavier feeling than average touch.

1) While pressing and holding the [FUNC,] BUTTON, press one from the 5 black keys assigned with the 1~5 numbers, positioned just below the middle C.

*	Defai	11+	2

Key	Velocity Curve	Touch & Sound
29 : C#3	Velocity 1	Heavy
31 : D#3	Velocity 2	Medium Heavy
34 : F#3	Velocity 3	Medium (Default)
36 : G#3	Velocity 4	Medium light
38 : A#3	Velocity 5	Light



C. Transpose

1) While pressing and holding the [FUNC.] BUTTON, press the below key for semitone or octave transpose

Key	Function	Control Range
41 : C#4	Semitone Down	± 24 Semitone
43 : D#4	Semitone Up	± 24 Semitone
46 : F#4	Octave Down	± 2 Octave
48 : G#4	Octave Up	± 2 Octave
50 : A#4	Reset	0

D. Reverb, Chorus (Effects)

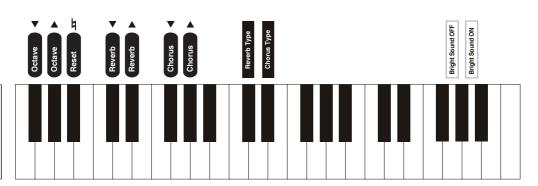
1) While pressing and holding the [FUNC.] BUTTON, press the below keys for selecting desired chorus and reverb type, and adjusting the depth of both types.

Key	Function	Control Range
53 : C#5	Reverb Down	000
55 : D#5	Reverb Up	127
58 : F#5	Chorus Down	000
60 : G#5	Chorus Up	127
65 : C#6	Reverb Type	4 Types
67 : D#6	Chorus Type	3 Types

E. Bright Sound

1) While pressing and holding the [FUNC.] button, press below keys for Bright Sound ON/OFF

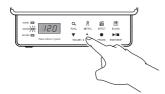
Key	Function	Control Range
83 : G7	Bright Sound OFF	0
85 : A7	Bright Sound ON	0



Metronome

Using the built-in metronome function, you can practice with correct tempo and beat.

- 1) ON/OFF: Press [METRO.] button for metronome ON or OFF.
 - * When metronome is on, the lamp(middle left) blinks according to the beat.
- 2) Setting: Press and hold the [METRO.] button for more than 2 seconds, then you can see metronome setting display.
 - * ("120"= Tempo), METRO Lamp on.



- ① Press [FUNC] button to select from Tempo->Beat->Volume->Bell.
 - * The dot beside the number indicates the selected menu.
 - * Tempo : The display shows the current tempo. (quarter step/minute, default 120/minute)
- ② Beat: Beat selection 1/2 ~ 9/8

Beat chart								
1/2	2/2	3/2	4/2					
1/4	2/4	3/4	4/4	5/4	6/4	7/4	8/4	
1/8	2/8	3/8	4/8	5/8	6/8	7/8	8/8	9/8

- 3 Volume: Control the range of the volume: (0~9, Default:5)
- $\ensuremath{\mathfrak{A}}$ Bell : Setting the bell sound on/off on the hard beat

- 3) Press either $[\P]$ or $[\blacktriangle]$ button to adjust Tempo, Beat, Volume, Bell.
- 4) Press [▼] and [▲] button together to return to the Default.
- 5) Press [SOUND] button to return to the home mode.

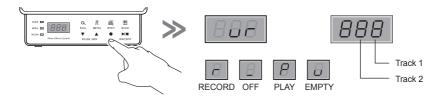






Record

1) Press [RECORD] button during the home mode for recording mode.



- * Recording in both tracks respectively is available, and you can record a track while playing another recorded track at the same time.
- 2) Press [▼] button to select RECORD/PLAY/OFF from track2.
- 3) Press [▲] button to select RECORD/PLAY/OFF from track1.
- 4) When you select recording, if the selected track has been recorded already, it is set to PLAY * you can record just in one track at a time.
- 5) Select the track you want and press [RECORD] button. Then the recording will be started after playing count off 1 measure.
- 6) Press [RECORD] button again to finish recording.
- 7) You can continue recording on another track after selecting record/play track.
- 8) Press [SOUND] button to return to the Home Mode.
- 9) For deleting the recorded data, press and hold [FUNC.] button for more than 2 seconds, the data would be deleted after one blink of the display.

Playback

1) Press [START/STOP] button during the Home Mode for Playback Mode.



- 2) Press [ullet] button to select whether to play track 2 or not.
- 3) Press [▲] button to select whether to play track 1 or not.
- 4) You can play one or two tracks at one go.
- 5) Select one or two tracks you want and press [START/STOP] button to play.
- 6) Press [START/STOP] button again to stop playing.
- 7) Press [SOUND] button to return to the Home Mode.

DEMO

1) Press [RECORD]+ [START/STOP] buttons together during the Home Mode to get into Demo Mode.



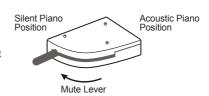
- 2) Press either [▼] or [▲] button to select demo song.
- 3) Select a song from 10 demo songs and press [START/STOP] button to play.
- 4) When the selected song is finished, the next song will be played continuously.
- 5) Press [START/STOP] button again to stop playing.
- 6) Press [SOUND] button to return to the Home Mode.
 - * Note: You can play the piano along with demo song.

Initializing GENIO BASIC @

GENIO BASIC α enables you to hear your own sound during the piano muting. The signals generated by actinography from the sensors underneath the keys convert into MIDI signals which are needed for generating the piano sound by control unit's program. Since GENIO BASIC α adopts continuous position detective photo sensors, after installation, by initializing process, it records the characteristics of keys and sensors into the memory storage to generate the sounds. Without correct initializing process, some keys have no sound, or generate irregular sound, so it is essential to initialize perfectly to keep the best performance.

A. Before Initializing

- 1) Every connection of cables should be perfect.
- 2) The mute lever should be in mute position.
- Make sure that nothing is sitting on the keys that might press keys down.
- 4) Mechanical regulation of the piano action like let-off should be perfect to prevent malfunction.



B. How to Initialize GENIO BASIC α

- Right after turning on the GENIO BASIC α, immediately press and hold [METRO.] button before the system gets ready to be used. Release [METRO.] button. And then, the display shows:
 - * 88 key mode : \Box \Box / 85 key mode : \Box \Box 5 lf the key mode should be changed, press and hold [METRO.] button for more than 2 seconds.



- 2) Press each of 88 keys and pedals one by one, all with slowly and softly.
 - * Don't press next key before the prior key is not released.
 - * Once a key is initialized, you can hear the corresponding key sound.
 - * Once you softly press the initialized key again, you can hear the key sound.
- After the above process, please press all keys and pedals AGAIN to check if you can hear each note's sound well or not.
 - * If a certain key is not initialized (if you cannot hear the sound), press and hold that key for more than 2 seconds again, that key would be re-initialized. (It remembers the last key position.)
 - * If the key is not re-initialized after pressed again, turn off the system and try from the first step.
- 4) After completion of the initializing all keys and pedals, press [METRO.] BUTTON again.
 - * When the data is successfully stored, the display will change as shown and the piano is ready to be played.



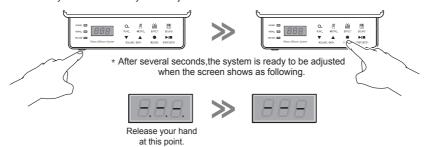


Note : Please initialize GENIO BASIC α properly if the piano is not used for a long time or recently moved. (The height of the keys can be changed)

How to adjust the sensitivity of individual keys

The initialization procedure on the previous page should make all of the keys equally sensitive. If you find that some keys still play too loudly or softly, use the following procedure to adjust the sensitivity of individual key.

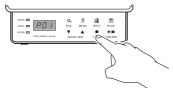
 Right after turning on the GENIO BASIC α, immediately press and hold [RECORD] button before the system gets ready to be used. Release [RECORD] button. The display should now look like below: The system is now ready to be adjusted.



2) Wearing headphones to monitor the sound, play each key and listen to the volume of the sound to find the key tobe adjusted.



- 3) When you find the key to be adjusted, press $[\P]$ or $[\blacktriangle]$ to adjust the sensitivity you need.
 - * [▼] : less sensitive
 - * [A]: more sensitive
 - * It adjust the key last pressed, so you'd better to adjust after confirm the key number
 - * Sensitivity range: 1~255
- 4) Check and adjust the other keys with same way as above, press [RECORD] button to save the adjustment, then GENIO BASICα is ready to be played.



System Setting

Press both [FUNC.]+ [SOUND] buttons together to show system setting screen from the Home Mode



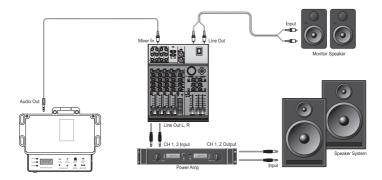
- * Press [FUNC.] button to select one menu from the list bellow.
- * Press either [▼] or [▲] button to change the value
- * Press [SOUND] button to save and return to Home Mode.

!	Firmware Version Check	Press and hold [▲] once: [control unit / release [▲]: Firmware version			
- '	(Non-changable)	Press and hold [▲] twice: 5 Sensor rail / release [▲]: Firmware version			
		Press and hold [▲] thriple: P Grand pedal scanner release [▲]: Firmware version			
_2	Start-up Sound	Adjust the default sound(from preset 17) whenever power on			
_3	Start-up Volume	Adjust the default volume whenever power on (Default: 60, Range: 0~100)			
_4	Line-in Gain	Range: 0~-79dB, Default: -10dB			
_5	Line-out Gain	Range: 0~-79dB, Default: 0dB, Same as setting volume			
_5	System initialization	Reset the system and memory to the original version from the manufacturers.			
_7	Keyboard mode	Note off when playing trills. (ON/OFF, Default: on)			
_8	Correction of repeated key touch	off, 10~400, Default: 250			
_9	Correction of key touch blending	off, 10~300, Default: off			
_10	MIDI output channel	1~16, Default: 1			
_11	Automatic power off time setting	Default:30n, Range: 5n(minutes)~12h(Hours)			
_ 12	Soft pedal positioning	Range: 0~-10steps, Default: 5			
_ 13	Sostenato pedal positioning	Range: 0~-10steps, Default: 5			
_ 14	Sustain pedal positioning	Range: 0~-10steps, Default: 5			
_ 15	Soft Pedal Adjustment	Adjusting softness of soft pedal 60~90%, Default 70%			

Connecting with External Audio Equipment

This product has audio input and output sockets, so it is possible to amplify the sound to the external audio device or to play the piano listening external audio performance. Please use with connecting the right audio cable and do not exceed the input and output ranges with correct nature

A. Amplified piano playing through External Audio Equipment



- 1) Connect the audio cable from the AUDIO Out of our product to the AUDIO In of external device, and adjust the audio volume adequately.
- 2) Both of our product and external device can adjust the audio volume coming out from AUDIO Out socket, so adjust the volume not exceeding the capacity of external device.
- 3) You can use Headphones terminal for audio out with 1/8" plug, but the output is around 4dBhigher than Audio Output, so please adjust the volume not to be distorted.

B. Piano playing listening external audio performance

You can play the piano listening external audio device by simple connection with CD, TAPE and MP3.

* Audio cable is not provided from the manufacture.

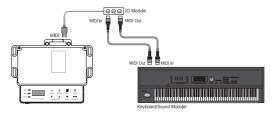


- 1) Audio Cable (RCA Jack) or 1/8" PLUG can be used, so please prepare the corresponsive cable.
- 2) Connect the audio cable between external device Audio Out and our product's Audio In.

Please refer to the MIDI Implementation Chart for the Control Command of connection parameters with external MIDI device.

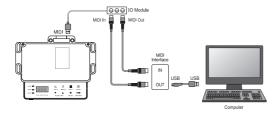
- * The sound of playing this product can be played back from the other MIDI device or saved in computer using MIDI program.
- * GM, Patch, volume or sound can be different from each manufacturer, the composed music with the other sound source can have different feeling.
- * This product outputs only 'Note' signal, so the patch of the external device should be set from the external device.
- * MIDI I/O Module, 5pin Round-DIN cable, MIDI Interface, 'USB MINI B' Type cable : option

C. Connecting with external MIDI device



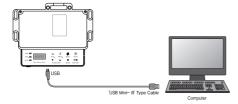
- 1) Connert MIDI cable(5Pin-round-DIN cable)
 - * MIDI I/O Module OUT -> Extra divice IN
 - * MIDI I/O Module IN -> Extra divice OUT

D. Connecting with computer with extra MIDI device



- 1) Connert MIDI cable(5Pin-round-DIN cable)
 - * MIDI I/O Module OUT -> Extra divice IN
 - * MIDI I/O Module IN -> Extra divice OUT

E. Connecting with computer with USB cable



1) Connect 'USB MINI B'Type Cable

GM Program Chart

Piano	0			Chro	matic Percuss	sion	
000	Piano 1	004	E.Piano 1	008	Celesta	012	Marimba
001	Piano 2	005	E.Piano 2	009	Glockenspiel	013	Xylophone
002	Piano 3	006	Harpsichord	010	Music Box	014	Tubular-bells
003	Piano 4	007	Clavinet	011	Vibraphon	015	Dulcimer
Orga	n			Guita	ar		
016	Organ 1	020	Reed Organ	024	Nylon-str.Gt	028	Muted Guitar
017	Organ 2	021	Accordion	025	Steel-str.Gt	029	Overdrive Gt
018	Organ 3	022	Harmonica	026	Jazz Guitar	030	Distortion Gt
019	Church Organ	023	Bandneon	027	Clean Guitar	031	Gt.Harmonics
Bass	;			Strin	g / Orchestra		
032	Acoustic Bs	036	Slap Bass 1	040	Violin	044	Tremolo Str
033	Fingered Bs	037	Slap Bass	041	Viola	045	Pizzicato St
034	Picked Bass	038	Synth Bass 1	042	Cello	046	Harp
035	Fretless Bs	039	Synth Bass 2	043	Contrabass	047	Timpani
Ense	emble			Bras	s		
048	Strings	052	Chair Aahs	056	Trumpet	060	French Horn
049	Slow Strings	053	Voice Oohs	057	Trombone	061	Brass
050	Syn. Str 1	054	Synth Vox	058	Tuba	062	Synth Brass 1
051	Syn. Str 2	055	Ochestra Hit	059	Muted Trumpet	063	Synth Brass 2
Reed	I			Pipe			
064	Soprano Sax	068	Oboe	072	Piccolo	076	Bottle Blow
065	Alto Sax	069	English Horn	073	Flute	077	Shakuhachi
066	Tenor Sax	070	Bassoon	074	Recorder	078	Whistle
067	Baritone Sax	071	Clarinet	075	Pan Flute	079	Ocarina
Synt	h Lead			Synt	h Pad etc.		
080	Square Wave	084	Charang	088	Fantasia	092	Bowed Glass
081	Saw Wave	085	Solo Vox	089	Warm Pad	093	Metal Pad
082	Syn.Calliope	086	5th Saw Wave	090	Polysynth	094	Halo Pad
083	Chiffer Lead	087	Bass & Lead	091	Space Voice	095	Sweet Pad
Synt	h SFX			Ethn	ic		
096	Ice Rain	100	Brightness	104	Sitar	108	Kalima
097	Sound track	101	Goblin	105	Banjo	109	Bag Pipe
098	Crystal	102	Echo Drops	106	Shamisen	110	Fiddle
099	Atmosphere	103	Star Theme	107	Koto	111	Shannai
Perc	ussive			SFX			
	Tinkel Bell	116	Taiko	120	Gt.FretNoise	124	Telephone
112	TITIKOT BOIL						
	Agogo	117	Melo Tom	121	Breath Noise	125	Helicopter
113			Melo Tom Synth Drums	121 122	Breath Noise Seashore		Helicopter Applause

Drum Chart

NO.	Standard Set	
27 D#1	High Q	
28 E1	Slap	
29 F1	Stratch Push	
30 F#1	Stratch Pull	
31 G1	Sticks	
32 G#1	Square Click	
33 A1	Metronome Click	
34 A#1	Metronome Bell	
35 B1	Bass Drum 2(Acoust)	
36 C2	Bass Drum 1(Rock)	
37 C#2	Side Stick	
38 D2	Snare Drum 1	
39 D#2	Hard Clap	
40 E2	Snare Drum 2	
41 F2	Low Floor Tom	
42 F#2	Closed Hi Hat(EXC1)	
43 G2	High Floor Tom	
44 G#2	Peadal HiHat(EXC1)	
45 A2	Low Tom	
46 A#2	Open HiHat(EXC1)	
47 B2	LowMid Tom	
48 C3	Hi Mid Tom	
49 C#3	Crash Cymbal 1	
50 D3	High Tom	
51 D#3	Ride Cymbal 1	
52 E3	Chines Cymbal	
53 F3	Ride Bell	
54 F#3	Tambourine	
55 G3	Splash Cymbal	
56 G#3	Cowbell	
57 A3	Crash Cymbal 2	

NO.	Standard Set		
58 A#3	Vibraslap		
59 B3	Ride Cymbal 2		
60 C4	Hi Bongo		
61 C#4	Lo Bongo		
62 D4	Mute Hi Conga		
63 D#4	Open Hi Conga		
64 E4	Low Conga		
65 F4	High Timbale		
66 F#4	Low Timbal		
67 G4	High Agogo		
68 G#4	Low Agogo		
69 A4	Cabasa		
70 A#4	Maracas		
71 B4	ShortWhistle(EXC2)		
72 C5	Long Whistle(EXC2)		
73 C#5	Short Guiro(EXC3)		
74 D5	Long Guiro(EXC3)		
75 D#5	Claves		
76 E5	Hi Wood Block		
77 F5	Low Wood Block		
78 F#5	Mute Cuica(EXC4)		
79 G5	Open Cuica(EXC4)		
80 G#5	MuteTriangle(EXC5)		
81 A5	OpenTriangle(EXC5)		
82 A#5	Shaker		
83 B5	Jingle Bell		
84 C6	Belltree		
85 C#6	Castanets		
86 D6	Mute Surdo(EXC6)		
87 D#6	Open Surdo(EXC6)		
88 E6			

MIDI Implementation Chart

Function		Transmitted Received		Remark
MIDI Channels		1 ~ 16	1 ~ 16	
Mode		X	3	
Note Number		21 ~ 108	0 ~ 127	
Velocity		0 ~ 127	0 ~ 127	
Note On		9n, V = 127	9n, V = 127	
Note Off		9n, V = 0 8n, V = 0 ~ 127 9n, V= 0		
Key Aftertouch		Х	Х	
Channel Aftertouch		Х	0	
Pitch Bend		X	0	+-2 Octave Pitch Band Sensitivity
Control Change	0, 32	X	0	recognized
	1	X	0	Bank Sesect
	6, 38	Х	0	Modulation
	7	Х	0	Data Entry
	10	X	0	Main Volume
	11	X	0	Pan
	64	0	0	Expression
	67	0	0	Damper Pedal
	91	Х	0	Soft Pedal
	93	Х	0	Reverb Depth
	98	X	0	Chorus Depth
	99	Х	0	NRPN LSB
	100	Х	0	NRPN MSB
	101	Х	0	RPN LAB
	120	Х	0	RPN MSB
	121	Х	0	All Sound Off
	123	Х	0	Reset All Controllers
Programme Char	nge	Χ	O (0 ~ 127)	All Note Off

Note:

1. Default Pitch Bend = 1 Semitone

2. Mode 1 : OMNI On, Poly 3. Mode 2 : OMNI Off, Poly

Specifications

Item			Description	
Silent Mechanism			Universal Mute Rail by Manual Lever	
Sensor Keyb	oard		Reflector Type Touchless Optic Sensor System	
Velocity			127 Level	
Touch Respo	nse		5 Curves	
Sensitivity of	Sensitivity of each Keys		Individual Adjustment Range from 000 to 255	
Sensor Pedal			Sustain, Soft	
Sounds			17 Pre-Set, 128 GM Sounds	
Sounds Mem	ory		512 MB	
Polyphony			256 Poly	
Transpose			±24 Semitone	
Effect	Reverb	Type	4	
		Ragne	000 ~ 127	
	Chorus	Type	3	
		Range	000 ~ 127	
Pitch	Standard		440 Hz	
	Range		438 ~ 445 Hz (1 Hz)	
Metronome	Tempo		25 ~ 250	
	Туре		21 Type	
	Volume		0~9	
Demonstration Song			10 Songs	
Record and Playback			2 Tracks (Approx. 40,000 Notes)	
Display			3 Digit Numeric LED	
Headphone J	Headphone Jack		1/8" x 2 Jacks	
USB MIDI IN	USB MIDI INTERFACE		MIDI INTERFACE built in (Connecting to Computer)	
MIDI Port	MIDI Port		Input / Out / Thru (Extra MIDI Module)	
Audio			In/Out (Stereo)	
Power Supply			Input: AC 100 ~ 240V, Output: DC 12V, 1~3A	
Dimension of Control Unit		iit	121 x 26 x 67 mm (W x H x D)	
Remark				

^{*} For Grand Piano: Universal Mute Rail by Auto Lever, controlled by the Grand Piano Mute Controller Sustain, Sostenuto, Soft Pedal Sensors

^{*} Above specifications are subject to change without notice.

Trouble Shooting

Phenomenon	Possible cause and Trouble shooting		
No Power	Check if AC plug is connected correctly with the outlet. Check if DC jack is connected correctly with the control unit.		
No Sound	If metronome works well with the sound, check the connection of key sensors and control unit. If metronome doesn't work, check the headphones connection or volume control. If the key have no sound, initialize (page 16) the system again. Check if there's any foreign substance on the key sensors.		
Noisy Sound	If there's no noisy sound when the volume is down, it's the headphones problem.		

[•] Note: If you use the other headphones which is not supplied with a basic kit item, the sound maybe different from each headphones' manufacturer.

Note

Note

Note