DigiHorDigiHar

MiaoBox

User Manual

Thank you for purchasing **DigiHorDigiHar MiaoBox**.It is a sylish,easy-to-use,powerful and portable MIDI sound module.It can provide 128 the newest high-quality GM sounds and effects.It has a 1,800mAh Li-ion battery which allows you continue the performance even without an external power supply.It supports all the MIDI devices which with MIDI OUT or USB-MIDI output.Just connect your device's MIDI OUT or USB-MIDI output to MiaoBox and start your music journey.

What's in the package

- MiaoBox : 1
- 3.5mm/MIDI cable : 1
- Type-C Cable : 1
- User Manual : 1

Safety Cautions

This product contains Li-ion battery.To avoid any damages to the battery or any other parts,never disassemble the unit by yourself.

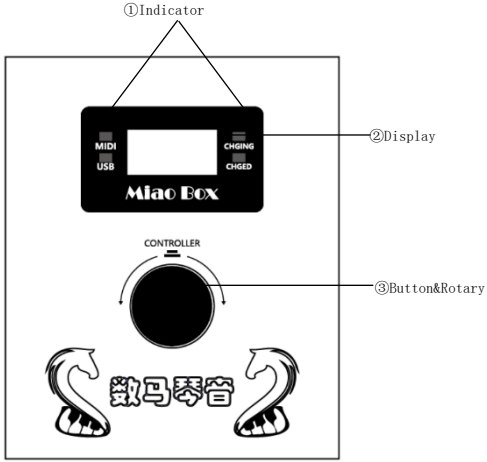
Never disassemble,press,puncture the unit.Never expose the unit into water or fire.Never expose the unit under high temperature.

Features

- Miaobox provides 128 the newest high-quality GM sounds
- Supports up to 64-voice polyphony and high-quality 16bit/37.5kHzaudio output
- Supports MIDI devices with MIDI OUT or USB-MIDI with zero latency
- With 128*64 pixels of OLED display
- Supports MIDI IN and USB Host to work simultaneously.One piano plays accompaniment while another plays melody
- Compact but powerful and easy-to-use.Excellent for operating with MIDI devices together
- Supports to adjust volume, tone code, pan, vibrato, equalizer, chorus, reverb, spatial, tuning, scale tuning,TVF,envelope etc
- Provides headphone jack and inner speakers
- Comes with a 1,800mAh rechargeable Li-ion battery.Able to supply power to your MIDI device through USB host
- USB HOST can also charge up your mobile phone(DC 5V,$I_O \leqslant$ 500mA)
- Provides metronome function
- Provides 380+ types of rhythms
- Provides 50+ classic music
- Power supply:Type-C
- Interfaces:3.5mm audio output,3.5mm MIDI input,USB HOST,Type-C interface

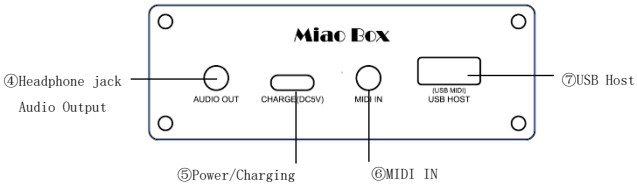
Panel description

Top panel



1. Indicator LEDs:USB/MIDI indicate communication status.LEDs glow up when there is any data tranmitting.CHGING/CHGED indicate charging status.CHGING glows up when battery is charging.CHGED glows up when the battery charge is completed.
2. Display:Showing channels, volume, tone code, pan, vibrato, equalizer, chorus, reverb, spatial, tuning, scale tuning, TVF, envelope,battery power,and language etc.Channel can be selected by the MIDI device when displaying the first page,and can be selected by mannual when displaying the channel page.
3. Button&Rotary:Turn to adjust value or select menu/dialog item. Press to enter/confirm. Long press to power on/off.

Side Panel



4. Headphone jack/Audio output:Connect to headphone or other output devices. Inner speakers will be active when no connection
5. Power/Charging:Type-C for power input or battery recharging,and also for firmware updating
6. MIDI IN:Connect to MIDI devices with MIDI OUT output.
7. USB Host:Connect to MIDI devices with USB-MIDI output.Able to supoly power to other device(DC 5V,$I_O \leqslant$500mA).

Operations

- **MiaoBox** allow you to adjust sound effects with its button and rotary

1. Turn the rotary to select the value to change or the page to enter;
2. Press the button to enter edit mode;
3. Turn the rotary to change the effect value;
4. Press the button to complete adjusting and exit edit mode。

- **MiaoBox** allow you to adjust sound effects through the connected MIDI device

Connect **MiaoBox** to a MIDI device and adjust it through the device. Refer to your MIDI device's instruction for detailed operations. When you adjust on your device volume/ tone code/ pan/ vibrato/ equalizer/ chorus/ reverb/ spatial/ tuning/ scale tuning/ TVF/ envelope, the display on **MiaoBox** changes accordingly.

- Two MIDI devices connecting to **MiaoBox**

1. Connect the two MIDI devices to **MiaoBox**'s MIDI IN and USB Host respectively;
2. The two MIDI devices must be set in different MIDI channels;
3. Make sure that **MiaoBox** is displaying the first page.In the first page **MiaoBox** can capture the MIDI channel of external MIDI devices automatically;
4. Press any key on one of the devices,**MiaoBox** will capture the MIDI channel of the device.Then enter Channel page by turning and pressing the button&rotary.In the channel page the current MIDI channel will be locked. And you can adjust on **MiaoBox** the tone or other effects you want.You can also change the current MIDI channel by manual.Choose "Exit" to exit the channel page after adjusting completed.
5. Similarly,set up and adjust the effects for another MIDI device.Then the devices are ready to play simutaneously.

Note:Tone and other effects can also be adjusted from the MIDI devices.In the first page or the channel page, MiaoBox will show the current MIDI channel on top-middle of the display. Make

sure which channel or device is before effects adjusting.

- Adust channel settings

1. Turn the rotary to select “Channel”, press the button to enter channel page;
2. The current MIDI channel is locked.The current MIDI channel can be captured in the first page automatically,and can also be chosen by manual through the “channel” item;
3. In this page,channel effects of volume/ tone(see Appendix1)/ pan/ vibrato/ equalizer/ chorus/ reverb/ spatial/ tuning/ scale tuning/ TVF/ envelope can be adjusted;
4. Choose “Exit” to exit the channel page after adjusting completed.

- Metronome

1. Turn the rotary to select “Metronome”,press the button to enter metronome page;
2. Adjust tempo BMP/ beat/ strong tone(Bell)/ sub strong tone(BellX)/ weak tone(Click)(see Appendix2)/ volume(1-127) to achieve the effects you want.

Note:When enter the metronome page,the metronome will play according to the last setting. **MiaoBox** can accept MIDI datas from MIDI devices and play metronome simutaneously. When choosing “Exit” to exit the metronome page, **MiaoBox** stops playing metronome.

- Rhythm

1. Turn the rotary to select “Rhythm”, press the button to enter rhythm page;
2. Adjust style/ rhythm/ BMP/ volume(1-127) to achieve the effect you want.

Note: When enter the rhythm page, the rhythm will play according to the last setting. **MiaoBox** can accept MIDI datas from MIDI devices and play rhythm simutaneously. When choosing “Exit” to exit the rhythm page, **MiaoBox** stops playing rhythm.

- Classic Music

1. Turn the rotary to select “Music”, press the button to enter music page;
2. Adjust music/ volume/ playing mode to achieve the effect you want.

Note: When enter the music page, the music will play according to the last setting. **MiaoBox** can accept MIDI datas from MIDI devices and play music simutaneously. When choosing “Exit” to exit the music page, **MiaoBox** stops playing music. When playing some songs, some channel settings will be changed by songs automatically.

- Other settings

Enter “Setting” page:

Language switch:English and Chinese can be chosen to be the current language. English is the default.

Save Mode:When “ClsScrn” is chosen, and no button&rotary input time exceeds the specified

"ScrnAfter" threshold, the display of MiaoBox will be closed to save power. When click button or turn rotary,the display will be recover.

Close Speaker：When "ClsSPK" is chosen。Power will be saved in this mode when earphone is used most of the time.

Auto Shutdown：When "AutoShtd" is chosen，and no button&rotary&midi input time exceeds the specified "ShtdAfter" threshold,the box will be shutdown.

Factory reset:Select "Restore" and the confirmation dialog will appear. Turn the rotary to select "Yes" and press button to confirm to restore, select "No" and press button to cancel.

Choose "Exit" to exit the setting page.

- Power On/Off

When in power off status, press down the button for about 3 seconds to power on and enter the first page. When in power on status, press down the button for about 2 seconds to power off. Select "PowerOff" menu and press the button can also power off MiaoBox.

Appendix1：General MIDI Sounds list

0	Acoustic Grand Piano	1	Bright Piano	2	Electric Grand Piano
3	Honky-Tonk Piano	4	Electric Rhodes Piano	5	Electric Chorused Piano
6	Harpsichord	7	Clavichord	8	Celesta
9	Glockenspiel	10	Musicbox	11	Vibraphone
12	Marimba	13	Xylophone	14	TubularBells
15	Santur	16	DrawbarOrgan	17	PercussiveOrgan
18	RockOrgan	19	ChurchOrgan	20	ReedOrgan
21	Accordian	22	Harmonica	23	TangoAccordian
24	NylonGuitar	25	SteelGuitar	26	JazzGuitar
27	CleanGuitar	28	MutedGuitar	29	OvendrivenGuitar
30	DistortionGuitar	31	GuitarHarmonics	32	AcousticBass
33	FingerBass	34	PickBass	35	FretlessBass
36	SlapBass1	37	SlapBass2	38	SynthBass1
39	SynthBass2	40	Violin	41	Viola
42	Cello	43	Contrabass	44	TremoloStrings
45	PizzcatoStrings	46	OrchestralHarp	47	Timpani
48	StringEnsemble1	49	StringEnsemble2	50	SynthStrings1
51	SynthStrings2	52	ChoirAahs	53	VoiceOohs
54	SynthVoice	55	OrchestraHit	56	Trumpet

57	Trombone	58	Tuba	59	MutedTrumpet
60	FrenchHorn	61	BrassSection	62	SynthBrass1
63	SynthBrass2	64	SopranoSax	65	AltoSax
66	TenorSax	67	BaritoneSax	68	Oboe
69	EnglishHorn	70	Bassoon	71	Clarinet
72	Piccolo	73	Flute	74	Recorder
75	PanFlute	76	BottleBlow	77	Shakuhachi
78	Whistle	79	Ocarina	80	SquareLead
81	SawtoothLead	82	CalliopeLead	83	ChiffLead
84	CharangLead	85	VoiceLead	86	FifthsLead
87	BassLead	88	FantasiaPad	89	WarmPad
90	PolysynthPad	91	ChoirPad	92	BowedPad
93	MetallicPad	94	HaloPad	95	SweepPad
96	RainFX	97	SoundTrackFX	98	CrystalFX
99	AtmosphereFX	100	BrightnessFX	101	GoblinsFX
102	EchoesFX	103	Sci-fi FX	104	Sitar
105	Banjo	106	Shamisen	107	Koto
108	Kalimba	109	BagPipe	110	Fiddle
111	Shanai	112	TinkleBell	113	Agogo
114	SteelDrums	115	WoodBlock	116	TaikoDrum
117	MelodicTom	118	SynthDrum	119	ReverseCymbal
120	GuitarFretNoise	121	BreathNoise	122	Seashore
123	BirdTweet	124	TelephoneRing	125	Helicopter
126	Applause	127	Gunshot		

Appendix2：MetronomeSounds list

35	Kidkdrum2	36	Kickdrum1	37	Sidestick
38	Snaredrum1	39	Handclap	40	Snaredrum2
41	LowFloorTom	42	ClosedHiHat	43	HighFloorTom
44	PedalHiHat	45	LowTom	46	OpenHiHat
47	LowMidTom	48	HiMidTom	49	CrashCymbal1
50	HighTom	51	RideCymbal1	52	ChineseCymbal
53	RideBell	54	Tambourine	55	SplashCymbal
56	Cowbell	57	CrashCymbal2	58	Vibraslap

59	RideCymbal2	60	HiBongo	61	LowBongo
62	MuteHiConga	63	OpenHiConga	64	LowConga
65	HighTimbale	66	LowTimbale	67	HighAgogo
68	LowAgogo	69	Cabasa	70	Maracas
71	ShortWhistle	72	LongWhistle	73	ShortGuiro
74	LongGuiro	75	Claves	76	HiWoodBlock
77	LowWoodBlock	78	MuteCuica	79	OpenCuica
80	MuteTriangle	81	OpenTriangle		

Appendix3：Specifications

Product Specifications	
Product	**MiaoBox**
MIDI sound module	Internal MIDI sound module
Polyphony	Up to 64
Sounds	128 GM sounds
Jack	AUDIO OUT、MIDI IN、USB HOST、TYPE-C
Power Supply	TYPE-C（≥500mA）
Battery Capacity	1,800mAh
Display	**128*64** OLED matrix display
Accessory	User Manual,3.5mm MIDI adapting cable, Type-C charging cable
Dimension	102*82*29mm
Input/Output	
AUDIO OUT	For standard 3.5mm stereo headphone
MIDI IN	For 3.5mm TRS connector(male) for MIDI data
USB HOST	For USB peripherals(USB-MIDI devices),able to power supply(≤500mA)
TYPE-C	For power supply and charging,also for firmware updating