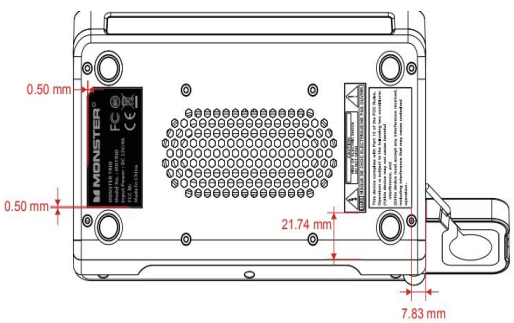
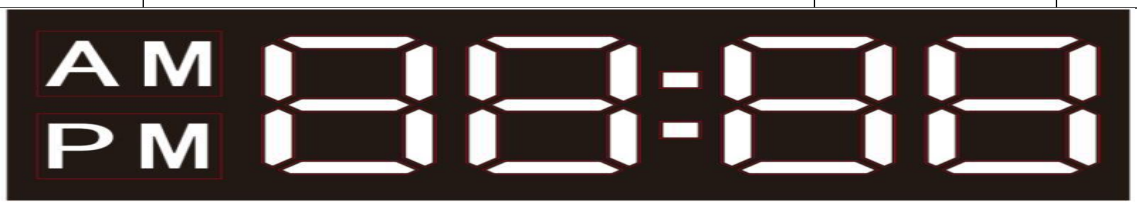
User Interface Specification
for MONSTER Trio speaker

Product figure:

The graphics of the Key /Connecter/Knob/LED display is illustrated as below:



	MONSTER Trio UIS	File No.:	TP-TrioR001
		Version:	V1.0
		Total Page:	8



A. Document Change History

No.	Version	Change Summary	Owner	Date of Changes
1	V1.0	Draft version	OXF	2019.05.21
2	V1.1	Revise the default volume is 6 when power on,the default volume is 10 when hand free.	OXF	2019.6.12

B. Introduction

1) Purpose

This document defines the user interface requirement of MONSTER Trio, The purpose of this document is to guide the development team to implement the user interface software.

2) Scope

This document covers the user scenarios, UI control flows and the display contents of the product.

C. Turn on Trio Speaker

1. 1）After out of box first, when plug the power cable into wall outlet.
   2）Trio Speaker will enter standby mode, the Display will on an show the “12:00” flash,the display show time if the main unit is not used the first;
   3）Press “PREV” button 2s to set time, [12] starts to blink.
   4）Press “ VOL+” or “VOL-” button to select 24H or 12H;Short press “PREV” button to confirm,
   5）The Hours segments of “12” will fast flash with 1 Hz, the Minutes of “00” solid;
   6）Press ”VOL+” or ”VOL-” key to adjust the desired time, short press “PREV” button to save current Hours
   7）The Minutes segments of “00” will fast flash, the Hours segments will solid; Press ”VOL+” or ”VOL-” button to adjust the desired time,
   8）Press “PREV” button to save current Minutes; and finish Clock time settings;
2. When plug the power cable into wall outlet, Speaker will enter standby mode, the Display will on and show clock time, Press “Power” key to turn on Trio Speaker, the default source is BT source will launch;
3. When Speaker is working at any source, hold the “Power” key for 2s on Speaker to enter standby mode, the Display will show clock time; ;

D. Source Switching

Main unit has 6 main functions (Bluetooth/Aux in/Clock /QI Charger/USB Charger/ LED Lighting);

The main unit supports 2 sources under audio mode:

1) Bluetooth source (default source)

2) AUX-IN Source (when input aux in cable line,main unit auto switch to Aux in mode.)

Remarks:

1. Product name : MONSTER TRIO
2. Model name : MNTRIO
3. Bluetooth name : Monster TRIO

E. Bluetooth Device Name

Bluetooth Device Name	Bluetooth name	
Bluetooth SSID	Monster Trio	

F. Bluetooth Paired, Bluetooth Reconnected Requirement

1. Bluetooth SSID name shows in BT source; Bluetooth SSID name can't show in Aux in source;
2. Bluetooth will auto reconnect last connected device if it paired before;
3. Bluetooth will auto reconnect last connected device after power off and power on main unit if it paired before;
4. Bluetooth will auto reconnect last connected device after moving mobile phone and Bluetooth devices over Bluetooth received distance and return Bluetooth received distance with 3 minutes;
5. Bluetooth will auto reconnect last connected device after Bluetooth off and Bluetooth on in BT setting menu of mobile phone and Bluetooth devices if it paired before; that will based on mobile phone itself function;
6. Bluetooth will auto reconnect last connected device after power off and power on of mobile phone and devices if it paired before; that will based on mobile phone itself function;

G. Digital display behaviour

No.	Previous status	Digital display behavior	Icon flash frequency	Working Status
2	Power on and BT/Aux in mode	only Clock	Solid	Power on and BT/Aux in mode
3	In Standby mode	only Clock	Solid	Work at standby mode

H. Power and BT key behaviour

Key	Previous status	Key behavior	LED behavior	Working Status
Power Key	Main unit is Standby mode, the Display will on and show clock time;	Press the “Power” key once to first turn on main unit	1.the default source is BT source which will launch; 2.the Blue BT LED will flash during paring mode;	Power on main unit and work at BT pairing mode and Blue BT icon fast flash if nothing has not been paired with;
	Main unit in “power on/off mode	Short press “power” button can adjust display brightness	/	Display brightness change
	Main unit is Standby mode, the Display will on and show clock time;	Press the "Power" key once to first power on main unit if main unit do BT paired and connected before	1.the default source is BT source which will launch; 2.the Blue BT LED will flash during reconnecting mode; 3. the Blue BT LED will solid after connected successfully;	Power on main unit and main unit auto reconnect to last connected mobile device if it has been paired with;
	Main unit is on standby mode	Quickly press “power” key twice enter “ECO” mode	“ECO” solid then display time	QI charging closed
	Main unit is Standby mode, the Display will on and show clock time;	Input adaptor into wall outlet	1.the default source is BT source which will launch; 2.the Blue BT LED will flash	Power on main unit and auto switch to BT mode
VOL+	Main unit is working in any source	hold and press the “VOL+“ key once to continuously increase volume;	The display show time	The display show time .The vol is the highest ,the ”ding” will be out;

VOL+	Main unit is working in any source	Short press the “VOL+“ knob once to increase volume;	The display show time;	The display show time.The vol is the highest ,the ”ding” will be out;
VOL-	Main unit is working in any source	Hold and press the “VOL-“ key to continuously decrease volume;	The display show time;	The display show time;
	Main unit is working in any source	Short press the “VOL-“ key to decrease volume;	The display show time;	The display show time;
BT/Play/Pause key	Main unit is on mode and work at BT disconnect or connected mode	Press and hold "BT/Play/Pause" key for 2s to enter BT pairing mode;	Blue led will fast flash	Main unit enter BT pairing mode and BT Blue led fast flash;
	Main unit is on mode and work at BT music playing mode;	Press and hold "BT/Play/Pause" key for 2s to disconnect current BT connecting and enter BT pairing mode;	Blue LED will fast flash	Main unit enter BT disconnect or pairing mode and BT Blue LED fast flash;
	Main unit is on mode and Playing music in BT source	Short press "BT/Play/Pause" key once to pause current music	/	Pause current music playback
	Main unit is on mode and Pause current music playback in BT source	Short press "BT/Play/Pause" key for once to resume music playback;	/	Resume music playback
	Main unit is on BT connected mode,Telephone calling	Short press “BT/Play/Pause” key	/	accept the calling
	Main unit is on BT connected mode,Telephone calling	press “BT/Play/Pause” key 2S	/	Reject the calling
	Main unit is on BT connected mode,accept calling	press “BT/Play/Pause” key	/	Huang up the calling
	Main unit is on connected mode	Quickly press “BT/Play/Pause” key twice	/	Main unit wake “SIRI”,only for 1Iphone

Next Key	Main unit is on mode and playing music in BT source	Press “Next“ key once to select next music to play	/	/
Previous Key	Main unit is playing music in BT source	Press “Previous“ key once to select previous music to playing	/	/
	Main unit is on “power off” mode	Press the “previous” key 2s	/	The unit coming to clock setting mode
Light/Colour key	In working mode	Short press “light/colour” button,the main unit default red; appear red-blue-green-purple-orange-cyan-white-Mix colour breathing in turn.	/	adjust lighting LED colour
	In working mode	Long press “light/colour” key 3s in C1-C8 mode adjust led brightness,default 3 grade brightness,every long press to add one grade brightness.	/	adjust the brightness of display;
	In working mode	Short press “light/colour” button to Mix colour breathing,the main unit enter breath mode.	/	color changes gradually
	In working mode	Press “light/colour” button twice close light display	/	The light display closed
PREV key +Vol+/- button	Main unit in power on/off mode	Long press “PREV” button 2s to enter clock setting mode,default “12”	The display is “12”	“12” flash
	Main unit in power on/off mode	Press “Vol+/-” button to select “12” or “24” then press “PREV” button to confirm;	“12” and “24” flash then solid	Setting 12 and 24
	Main unit in power on/off mode	Press “Vol+/-” button to select hour then press “PREV” button to confirm;	Hour flash then solid	Setting hour
	Main unit in power on/off mode	Press “Vol+/-” button to select minute then press “PREV” button to confirm;	Minute flash then solid	Setting minute

I. Audio Tone

1) the Audio Tone level is fixed that can't be changed by volume level;
2) Unit will hints "Bluetooth connected"/"Bluetooth disconnected" when unit work at BT mode;

No.	Key behaviour	Audio Tone
1	Press "power " key 2s auto switch to Bluetooth mode	Bluetooth
2	Input "aux in" line to Aux in outlet	Aux in
3	Unit enter Bluetooth pairing mode	Pairing
4	Unit enter Bluetooth pairing and connected successfully	Connected

A.Volume control Function:

a. Volume range: 0-16;
b. Default volume level is 6, level 0 is mute;
c. it will keep volume level 6 if the main unit power off then power on;
d. press "Vol+" button once to increase volume, the relative volume level data will show on the displays about 1 seconds;
e. press and hold "Vol+" button to continuously increase volume, the relative volume level data will flash on the displays and then the last volume level data will show on the displays about 1second;
f. press "Vol-" button once to decrease volume, the relative volume level data will show on the displays about 1 seconds;
g. press and hold "Vol+" button to continuously decrease volume, the relative volume level data will flash on the displays and then the last volume level data will show on the displays about 1 seconds;
h. The default volume is 10 when hand free;

J. Standby Function

Main unit will auto enter standby mode by following method, if Trio Speaker enter Standby mode, the Display will show the Clock's time information.

1. In Bluetooth source, when no BT connect, or BT connect fail, or disconnected for 15 minutes, the set goes to standby mode and BT icon is off.
2. When Trio Speaker is working at any source, push and hold the "Power" button for 2s on Speaker to enter standby mode and the Display will show clock time;

K.Wake up function description

1. Main unit at STANDBAY status, Press "ON/OFF" key 2s; Main unit will wake up and auto switch to BT mode; the main unit is working ;

Remarks:

Volume setting is keep on after wake up from standby mode;

L. Clock Setup Display

Figure:

General Clock Display

1. When the Trio Speaker is turned off, the Trio Speaker shall show the current time on display, as illustrated below, the hour and minute are shown.
2. The time display format shall follow regional practice:
3. Display 24 hour format for Europe market (EU),;
4. Display 12 hour format for United States (US) with AM symbol shown in morning / PM symbol shown in the afternoon (as shown below). The default hour format is 12 hour format;
5. In 12 hour format , the "00:00~11:59" shall display with AM symbol, while "12:00~11:59 (12:00~23:59)" shall display with PM symbol.

Clock Setting

In Standby and power on mode, Press and hold the "PREV" key for 2s to enter the Clock settings;
The default Clock time is "12:00"; the Hours segments of "12" will fast flash with 1 Hz, the Minutes of "00" solid; press "Vol+" or "Vol-" key to adjust the desired time, press "PREV" key to save current Hours;
and the Minutes segments of "00" will fast flash, the Hours segments will solid; Press "Vol+" or "Vol-" key to adjust the desired time, press "PREV" key to save current Minutes; and finish Clock time settings;

M. Wireless charging

1. Put iPhone on QI1;
2. The main unit release "ding" prompt sound;
3. The blue RGB breath;
4. Red RGB flash 3 times then red RGB solid when put the iron on QI1;
5. Put iPhone on QI2;
6. The main unit release "ding" prompt sound;
7. The green RGB breath;
8. Red RGB flash 3 times then red RGB solid when put iron on QI2;
9. Put iPhone on QI1 then on iPhone QI2;
10. The main unit release "ding" twice;
11. The cyan RGB breath;
12. Red RGB flash 3 times then red RGB solid when put the iron on QI1 and QI2;

N. Reset

1. Input Aux in cable in Aux mode;
2. Quickly press "BT" button twice;
3. The main unit display the unit' version then clear times, Then the main unit display "PM - -:- -";

end