1600 & 1600-AMP

User Manual

Thank you for purchasing an Intrasonic Technology product. Our products are built to provide you with years of high quality sound.

If you need assistance with the installation or operation of this product, please contact our Customer Service Support team at 1-877-435-0670. You may also get information on this and other Intrasonic Technology products on our website at www.intrasonictechnolgy.com

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Important Safety Instructions

1. Read these Instructions.
2. Keep these Instructions.
3. Heed all Warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding - type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
16. The mains plug /appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
17. ⏚ Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
18. The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR

19.

- This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

- Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.

- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
   (1) This device may not cause harmful interference.
   (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

    Reorient or relocate the receiving antenna.
    Increase the separation between the equipment and receiver.
    Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
    Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm.

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Contents

1 Introduction

This user manual is designed to help the new users navigate and perform common tasks with the IST-I600 Audio system. Thank you for choosing the IST-1600.

2 Spec

Power: 100-240VAC 2.5A 50/60Hz
3.5mm input: 1Vp-p 20-20KHz
RCA input (AUX IN): 1Vp-p 20-20KHz
RCA output (AMP OUT): 1.6Vp-p max. 20-20KHz
RMS Output Power: 8x10W@8ohm max.
LCD: 4.3" TFT, resistor touch panel
USB connector output: DC5V 500mA
30 pin connector output: DC5V 500mA

3 I600 assembly
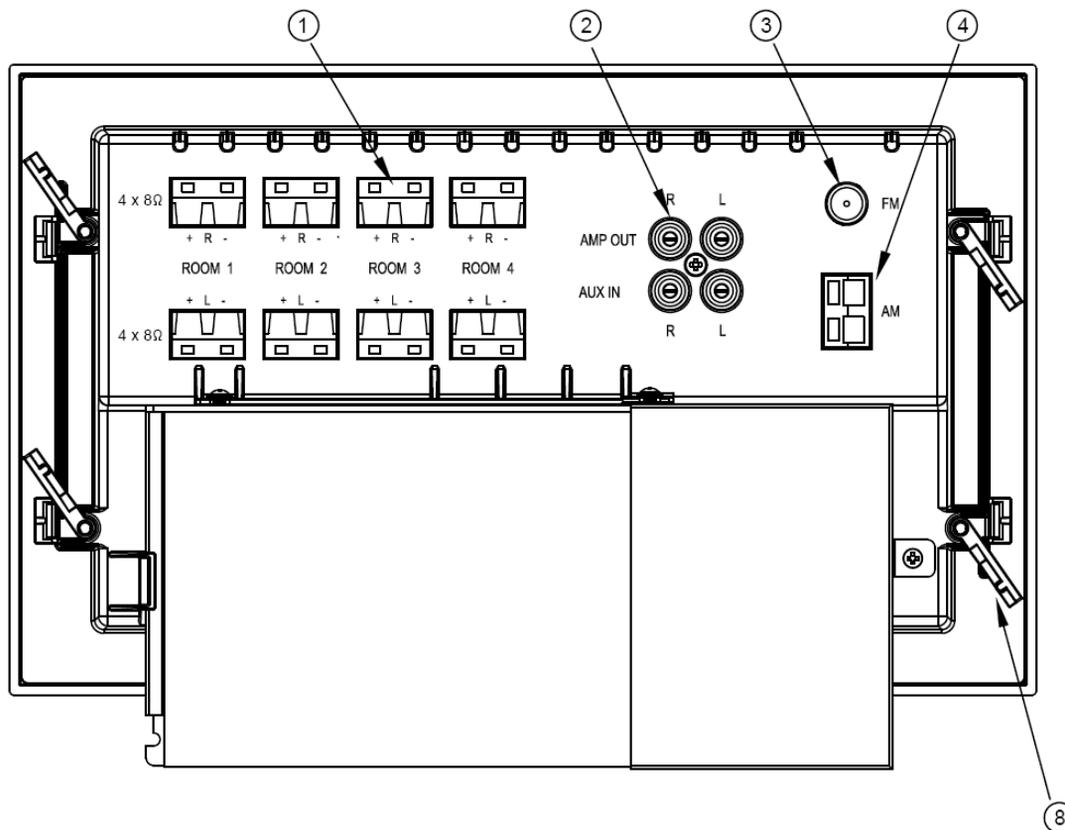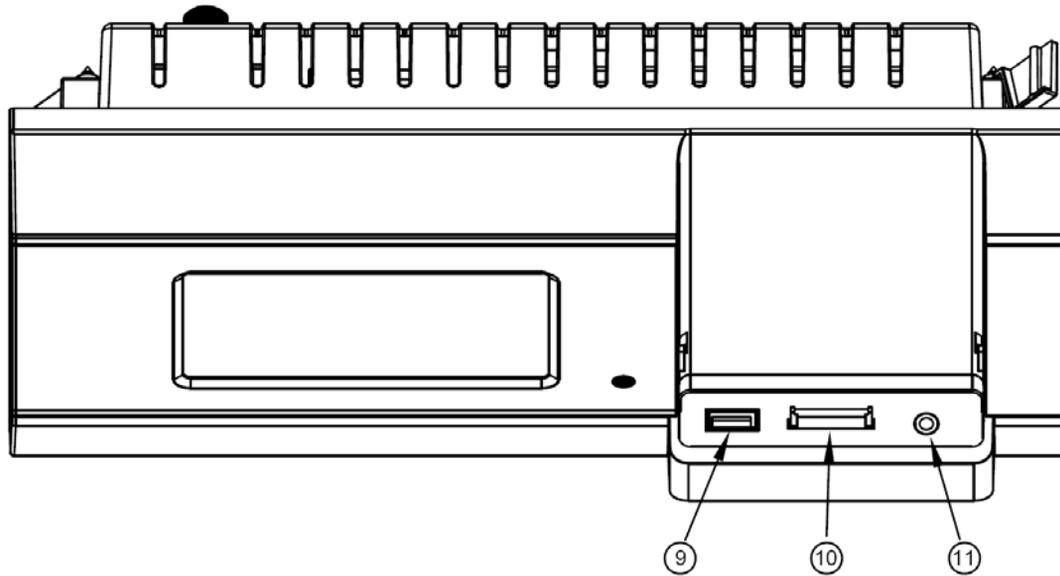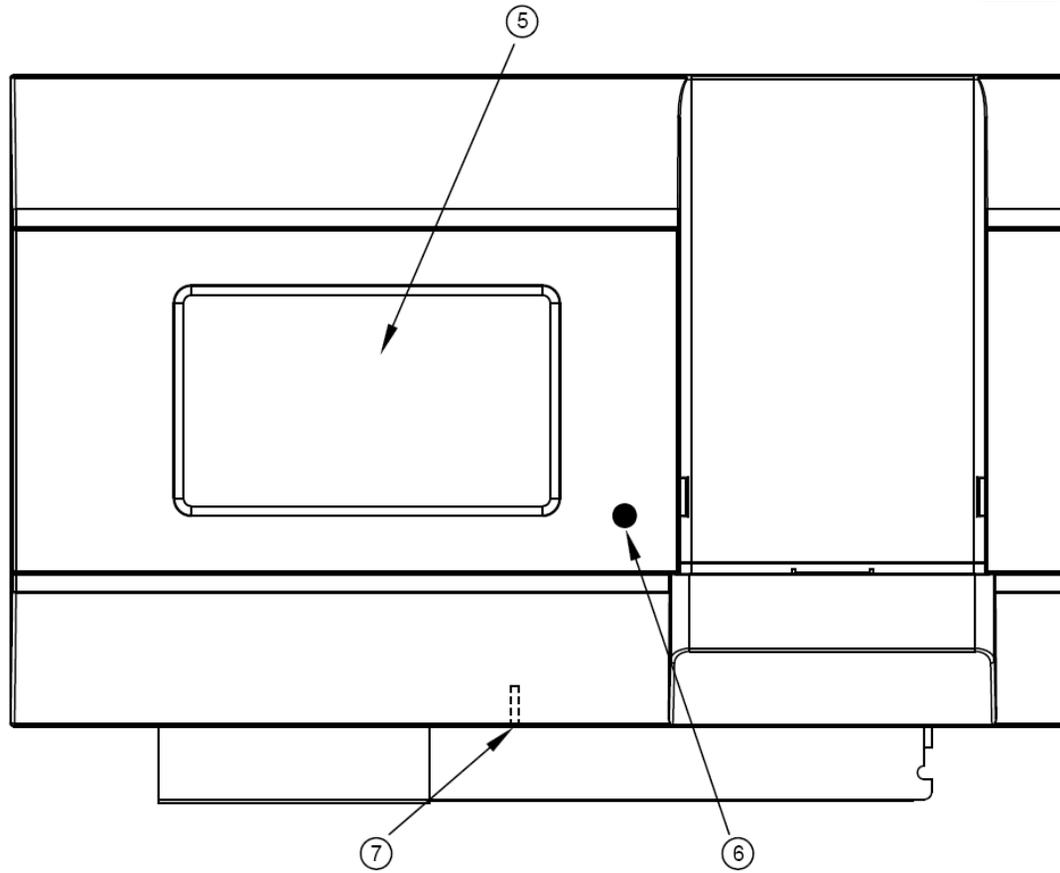
SERIAL	NAME	SPEC.	QTY
1	QUICK DISCONNECT TERMINAL	amplifier output	8
2	RCA CONNECTOR	audio output and input	1
3	ANTENNA CONNECTOR	FM Antenna connector	1
4	ANTENNA CONNECTOR	AM Antenna connector	1
5	LCD	LCD display	1
6	INFRARED RECEIVER	The infrared receiving window	1
7	RESET	Reset button	1
8	FASTENING-TAB	FASTENING-TAB	4
9	USB CONNECTOR	USB charging port	1
10	30 PIN CONNECTOR	iphone and ipod jack	1
11	3.5mm JACK	audio input	1

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4 I600 Explosion diagram
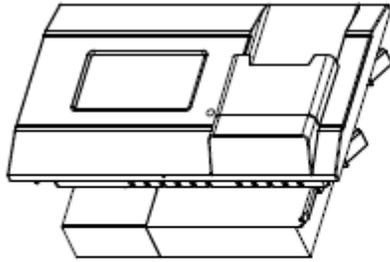
Scale
0.100
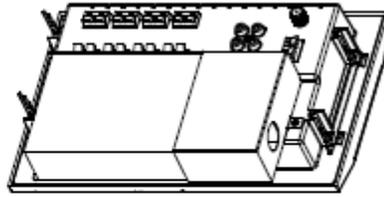
Scale
0.100
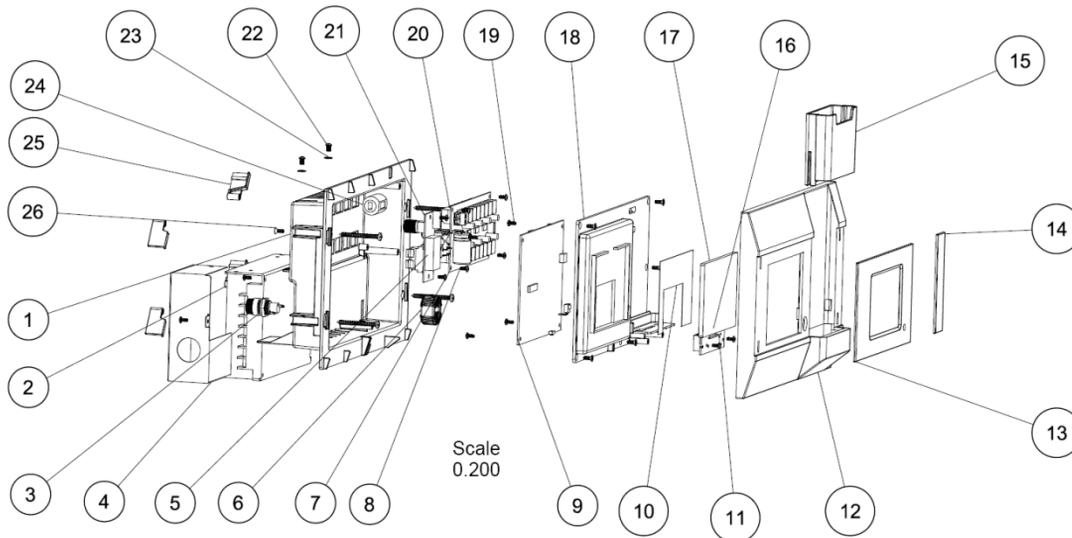
Scale
0.200

SERIAL	NAME	SPEC.	Material	QTY
1	BOTTOM-HOUSING	Color:Snow White,Finish:MT10010	ABS	1
2	POWER-SUPPLY	12V 8.5A RoHS		1
3	FUSE	ROHS		1
4	SHIELDER	thickness:0.5mm,finish:Blue zinc-plated	SPCC	1
5	4PIN-JACK	AV-CORE SOCKET		1
6	MAGNETIC-RING			1
7	AMPLIFIER-PCBA	ROHS		1
8	L6-SCREW	PHILIPS HEAD ST2.4X6MM STEEL(NI PLATED)	C1010	8
9	ICU-PCBA	ROHS		1
10	DOUBLE-SIDED-TAPE-FOR-LCD	3M9448A	3M9448A	1
11	30PIN	ROHS		1
12	TOP-HOUSING	Color:Snow White,Finish:MT10010	ABS	1
13	BIG-LENS	Finish:Snow White Paint	CLEAR PC	1
14	SMALL-LENS	Finish:Snow White Paint	CLEAR PC	1
15	MP3-STAND	Color: White,Finish:MT10010	ABS	1
16	USB-PCBA	ROHS		1
17	LCD	4.3"480 x RGB x 272 DOTS 262K COLORS 2.8V RoHS		1
18	HOLDER	Color:Snow White,Finish:MT10010	ABS	1
19	L6-SCREW	PHILIPS HEAD ST2.4X6MM STEEL(NI PLATED)	C1010	6
20	L38-SCREW	ST3.5*38mm Phillips and solt driver Binding head type A point,zinc-plated	FE20	4
21	AM-FM-PCBA	ROHS		1
22	MACHINE-SCREW	M3.0*5mm Phillips driver pan head Material:C1010	C1010	2
23	WASHER	ID3.2MM OD7.0MM THICK 0.5MM STAINLESS STEEL	STEEL	2
24	MAGNIC-RING-UF-70B			1
25	FASTENING-TAB	Color:Snow White,Finish:MT10010	PA66	4
26	L8-SCREW	ST2.6*8mm Phillips driver flat head type T point,finish:Ni-plated	C1010	6

LEFT VIEW

FRONT VIEW

TOP VIEW
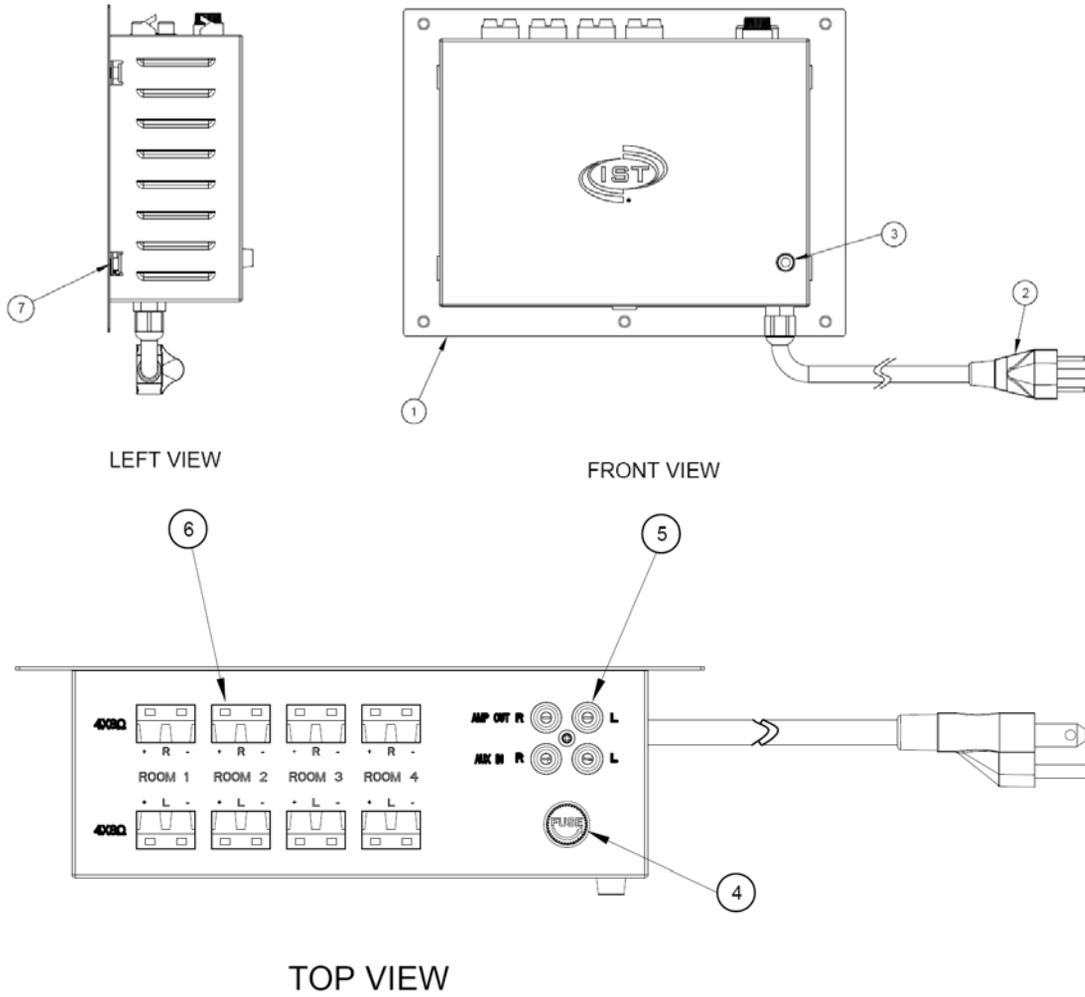
SERIAL	NAME	SPEC.	QTY
1	TOP-CASE	safegard,thermolysis	1
2	MALE-AC-POWER-WIRE	directly connect AC220V	1
3	LED	power light	1
4	FUSE	stop the flow of electricity	1
5	RCA CONNECTOR	audio output	1
6	QUICK DISCONNECT TERMINAL	amplifier output	1
7	BOTTOM CASE	safegard,thermolysis	1
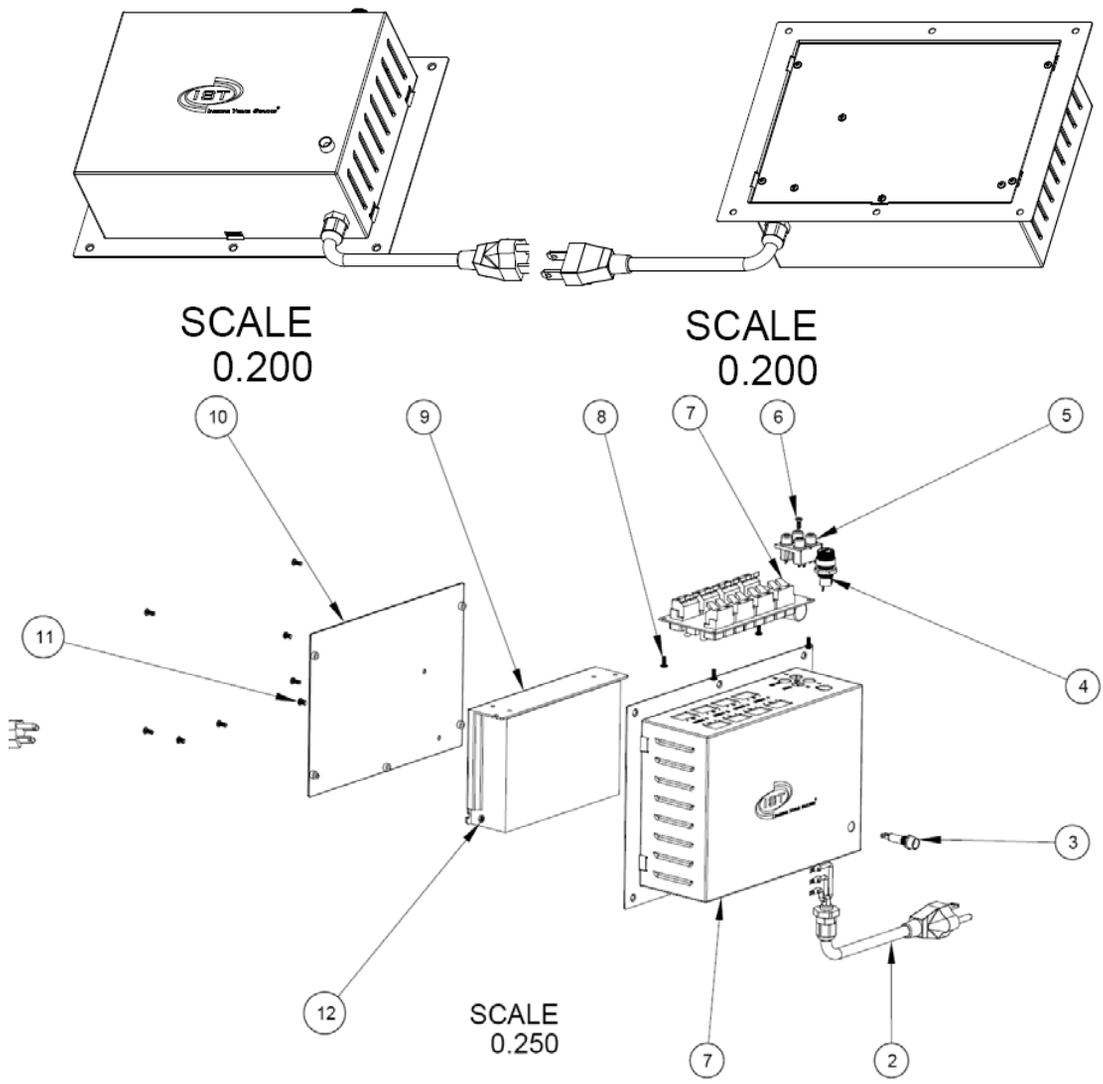
| SERIAL	NAME	SPEC.	QTY
1	TOP-CASE	MATERIAL:SGCC THICKNESS:1mm FINISH:WHITE PAINT RoHS	1
2	MALE-AC-POWER-WIRE	L=2500+/-30mm D/N:P51634310-1 RoHS	1
3	LED	RoHS	1
4	FUSE	UL RoHS	1
5	RCA CONNECTOR	4 PORTS DIP RoHS	1
6	L8-SCREW	ST2.6*8mm Phillips driver flat head type T point,finish:Ni-plated	1
7	AMPLIFIER-PCBA	RoHS	1
8	L7-SCREW	M3.0*5mm Phillips driver pan head Material:C1010	9
9	POWER-SUPPLY	12V 8.5A RoHS	1
10	BOTTOM CASE	MATERIAL:SGCC THICKNESS:1mm FINISH:WHITE PAINT RoHS	1
11	MACHINE-SCREW	M3.0*5mm Phillips driver pan head Material:C1010	3
12	NUT	M3 RoHS	1

7 User Interface

7.1 **Power On & Into the system**

After the I600 unit has been powered on the display will appear with the IST Logo with software and hardware versions. After several seconds this screen will disappear and the Home Screen will appear.

7.2 **Home Screen**
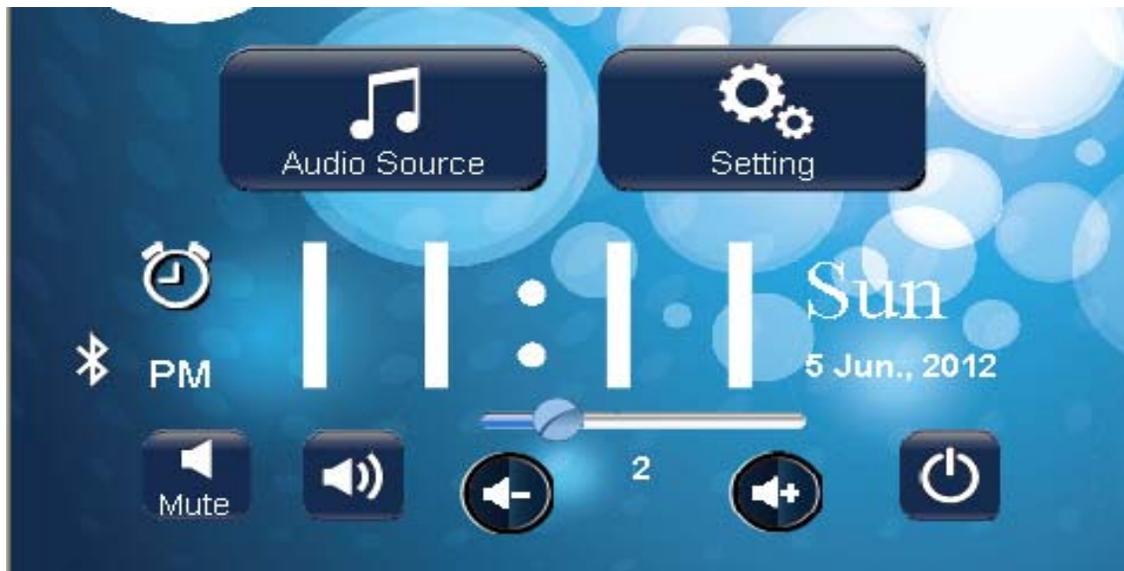
The Home Screen gives you several convenient options for playing music, display, time and date.

7.2.1 Buttons

Audio Source: Press the button and the Audio Source screen will give you playing options
Settings: Set Time/Language/Backlight/Backdrop/Touch Tone/Default Reset
Mute: Set the system Mute the music that is playing

 Volume: Pressing this button will make the volume bar disappear or re-appear

 Shut Off: Press and hold down button for system shut down, click once and display disappears

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Volume Buttons: Click the button +/- to increase/decrease the volume

Volume Bar: Depress button and drag left/right to increase/decrease volume

**Bluetooth:**   Icon indicating that Bluetooth is active on the device

Alarm: Icon indicating that an alarm has been set one the device. Press to disable

7.2.2 Words
AM/PM: AM/PM appears on Home Screen when time format is 12-hour clock
Time: Displays the current Time/ Day/Date

7.3   Audio Source
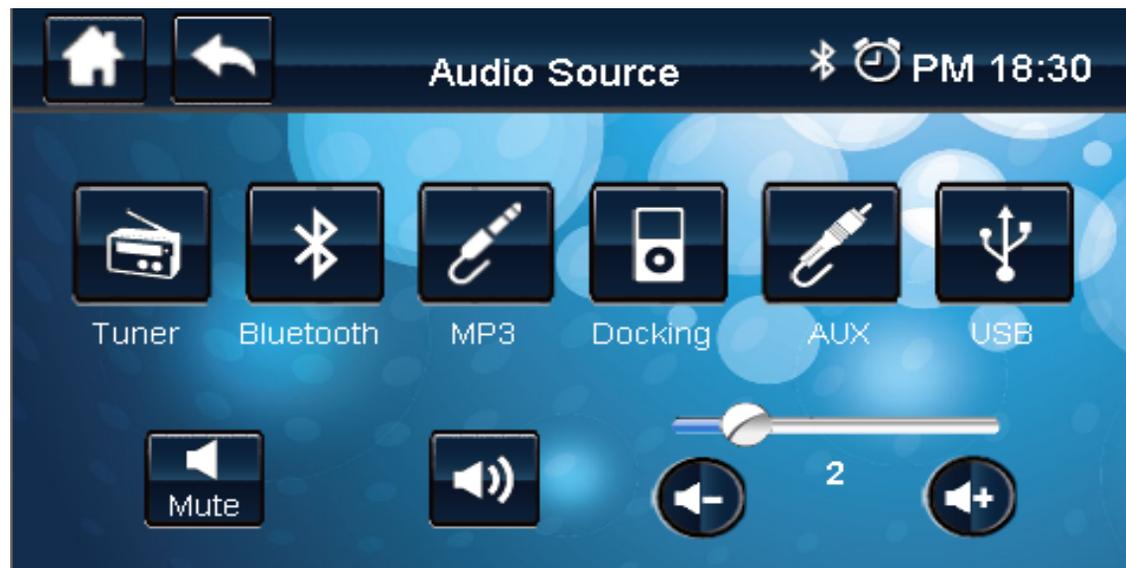
7.3.1 Buttons

Home: Return to the Home Screen. Home button appears on every screen

Back: Returns back one screen. Back button appears on every screen

Tuner: Press this button to go to the Radio Screen for AM/FM station selection

Bluetooth: Press this button to enter the Bluetooth Screen

MP3:   Press this button to enter the MP3 Screen to be used with a 3.5mm cable

iPod Docking: Press this button to enter the iPod Docking Screen. (when you dock your iPod or iPhone you will automatically go to the iPod Screen

AUX: Press this button to enter the AUX Screen. AUX is located on the back of the unit

USB: Press this button to enter the USB Player Screen. (used with a USB Flash drive or USB cable connected to a music source)

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7.4   AM/FM Tuner Screen

7.4.1 Buttons

AM/FM: Change the radio band.

Tuner</>:   Change the radio frequency, Press and hold to "seek" a radio channel

EQ: Enter the Tuner's Graphic Equalizer to adjust treble and bass frequencies

Preset: There are 6 buttons to set and save radio channels. Once you find a station you would like to "save" press and hold the Preset Button to save the channel

7.4.2 Words

Radio Frequency:

Display the current radio frequency. When you click the radio frequency, it will open a keypad interface and you can set the frequency value by the keypad.

7.5   Bluetooth

7.5.1 Buttons

Bluetooth On/Off:

Press this button to turn on/off the Bluetooth, It indicate the status of the Bluetooth.

Paired**:**   Press this button to pair the Bluetooth device with the IST600

Previous: Play the previous music on the Bluetooth device.

Play/Pause: Play or pause the music on the Bluetooth device.

Next: Play the next music.

Bluetooth Volume +:

Bluetooth device volume up.

Bluetooth Volume -:

Bluetooth device volume down.

EQ: Enter the Bluetooth Graphic Equalizer to adjust treble and bass frequencies

Device Name: You can change the Bluetooth name, click for an alpha keypad to change the name,
example: iPad, iPhone, etc.

7.5.2 Icons

Bluetooth: Icon indicating that Bluetooth is active on the device. When Bluetooth is "on" icon will
appear at the right of the title.

7.5.3 Words

Disconnected Status:

Bluetooth Status Display. (Power on, power off, connected, disconnected)

IST-I600 Device name:
Display the current device name of the Bluetooth.

7.6   MP3 Screen
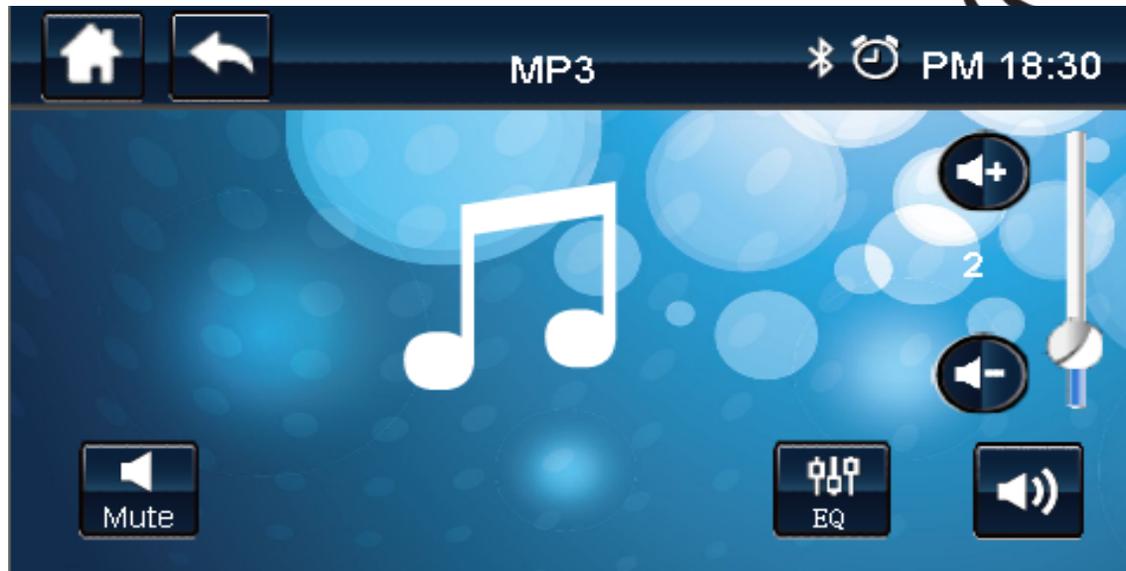
7.7 iPod Docking Screen
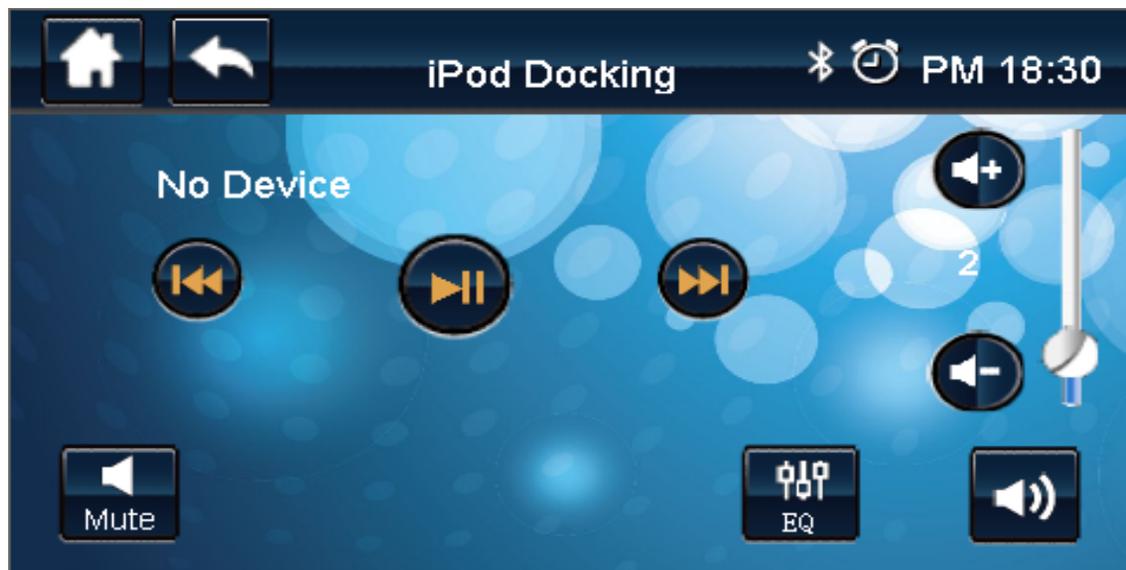
7.7.1 Buttons

Previous: Play the previous music on the Apple devices.

Play/Pause: Play or pause the music on the Apple devices.

Next: Play the next music on the Apple devices.

EQ: Enter the iPod Docking Graphic Equalizer to adjust treble and bass frequencies

7.7.2 Words

Device Status: Displays the status of the Device, such as "No Device".

7.8 AUX Screen
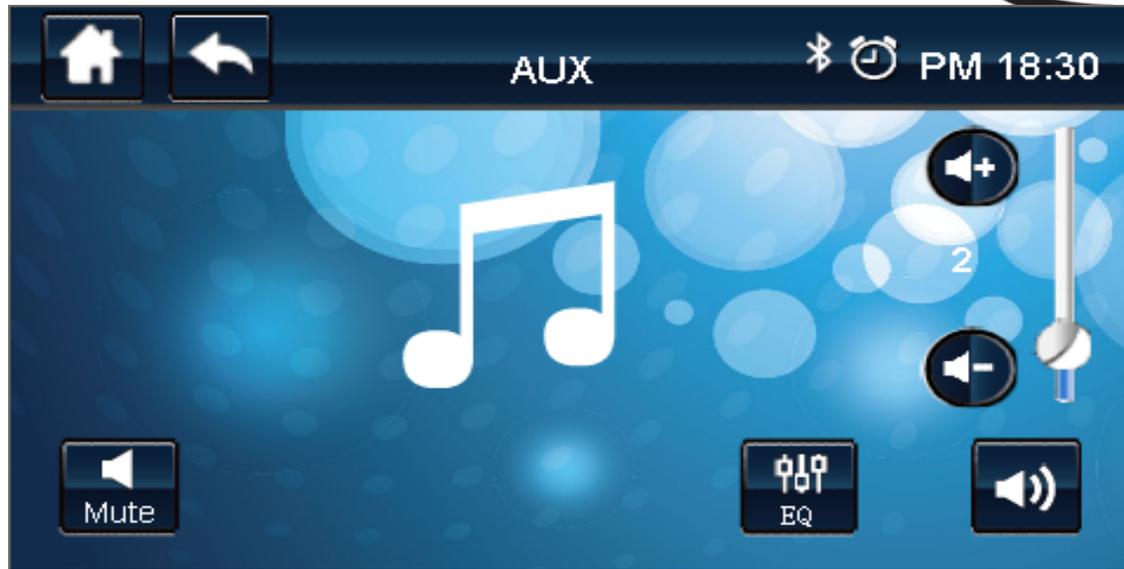
7.8.1 Buttons

EQ: Enter the AUX Graphic Equalizer to adjust treble and bass frequencies

7.9   USB Screen
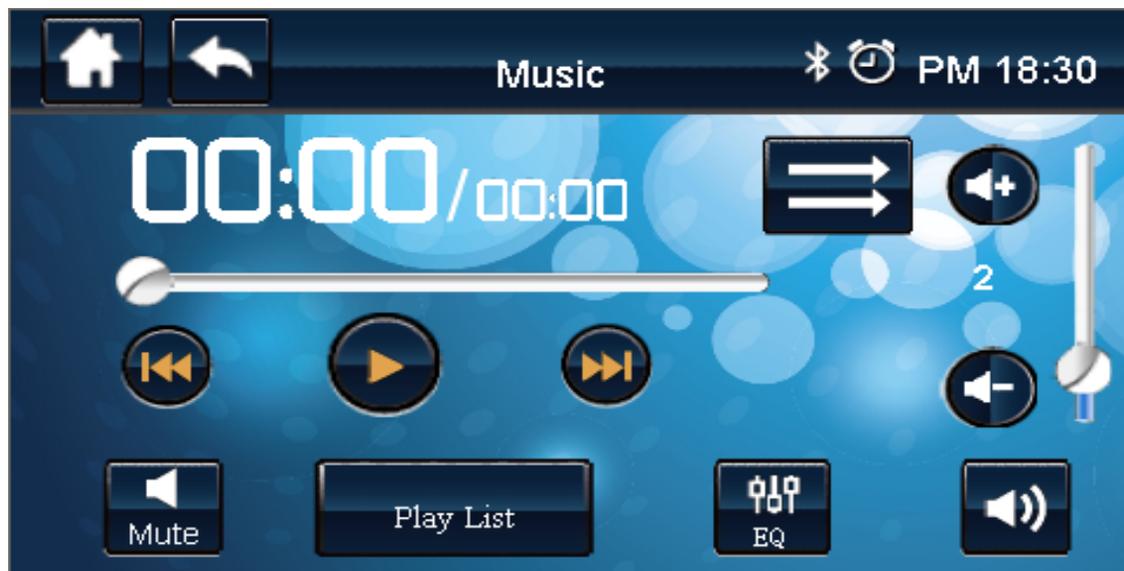
Upon plugging in a USB flash drive music automatically will begin playing and a song list will appear

7.9.1   Buttons

Previous: Play the previous music. Press and hold button will fast backwards.

Play/Pause: Play or pause the music.

Next: Play the next music. Press and hold button will fast forward.

Play List: Click to enter Play List interface.

EQ: Enter the USB Graphic Equalizer to adjust treble and bass frequencies

7.9.2 Words

00:00/00:00 Play Time:

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Display the play time of the music.

7.10 Play List

Songs that have been pre-loaded on the USB Flash Drive will appear and selected one song at a time, shuffle or repeat the song list in its entirety.
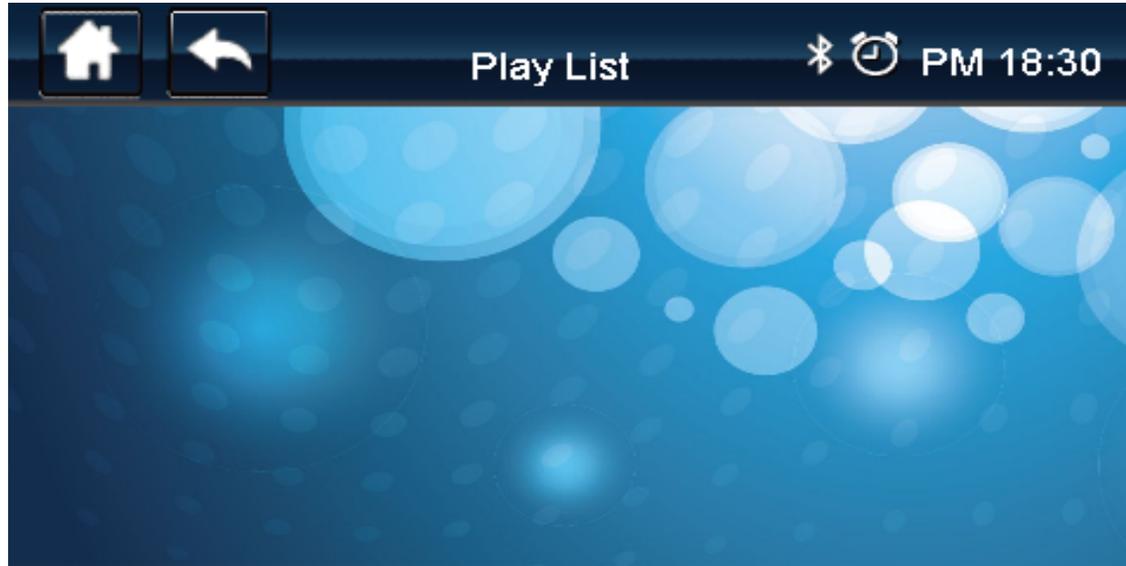
7.10.1 Buttons

Home: Return to the home page
Back: Return to the pre-interface.

7.11 EQ Screen

7.11.1   Buttons

Default: Set the default EQ.
Save: Save the Graphic Equalizer settings for each Input Selection

7.12 Settings Screen

7.12.1 Buttons

       Time &Date: Enter the Time & Date Settings
       Language: Change the Language Settings
   Backlight: Change the Backlight Settings
       Backdrop: Change the Background Settings
       Touch Tone: Change the Touch Tone Settings
       Reset All: Sets the system to factory settings, excluding the Time & Date.

7.13 Time & Date
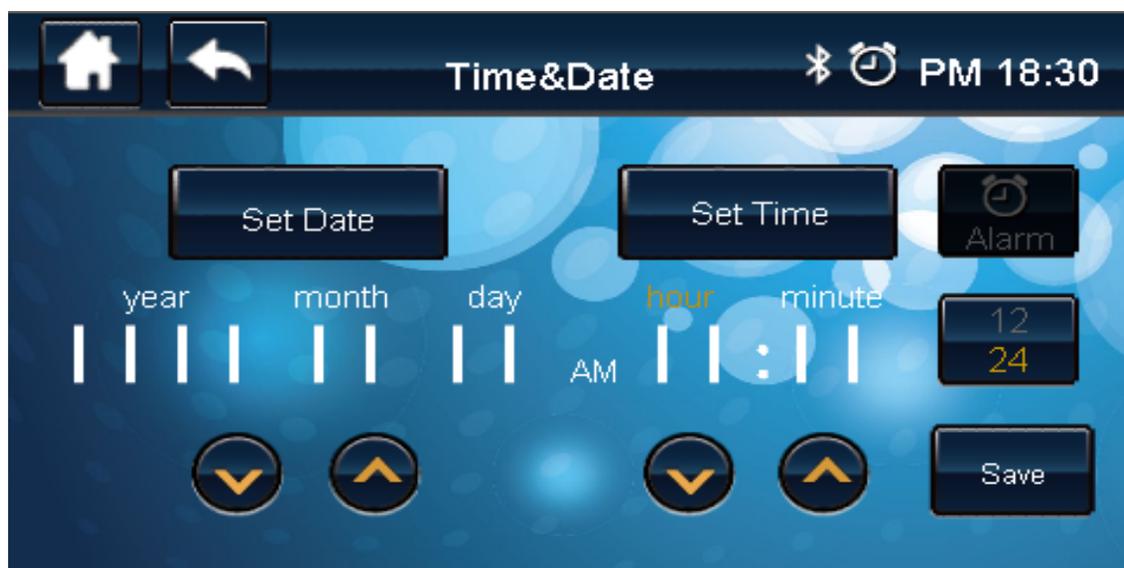
7.13.1 Buttons

       Set Date: Press to set the year/month/day.
       Set Time: Press to set the hour/minute.

       Alarm Enable/Disable:
                 Highlight means Enable, Grayed means disable.
       12/24 hour clock: Change the time format.
       Save: Save the Time & Date after you set that.

       Up: Increases the Time & Date.

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 Down: Decreases the Time & Date.

7.13.2 Words

Year/month/day/hour/minute:

7.14 Language Screen

7.14.1 Buttons

English: Select the English language.
French: Select the French language.
Spanish: Select the Spanish language.
Chinese (Si): Select the Simplified Chinese.
Chinese (Tr): Select the Traditional Chinese.
Save: Save the Language Setting.

7.15 Backlight

7.15.1 Buttons

OFF: Shut off the backlight.
LOW: Set the backlight brightness low.
MEDIUM: Set the backlight brightness medium.
HIGH: Set the backlight brightness high.
Enable: Enable the backlight auto-shutoff.
Disable: Disable the backlight auto-shutoff..
Backlight Time Select: Select the time for shut off the backlight.
Save: Save the Backlight Setting.

7.15.2 Words

Screen Brightness: Backlight Brightness Setting
Backlight Time: Backlight Time Setting.

7.16 Backdrop

7.16.1 Buttons
Press to select the global background for all screens
Save: Save the backdrop setting.

7.17 Touch Tone
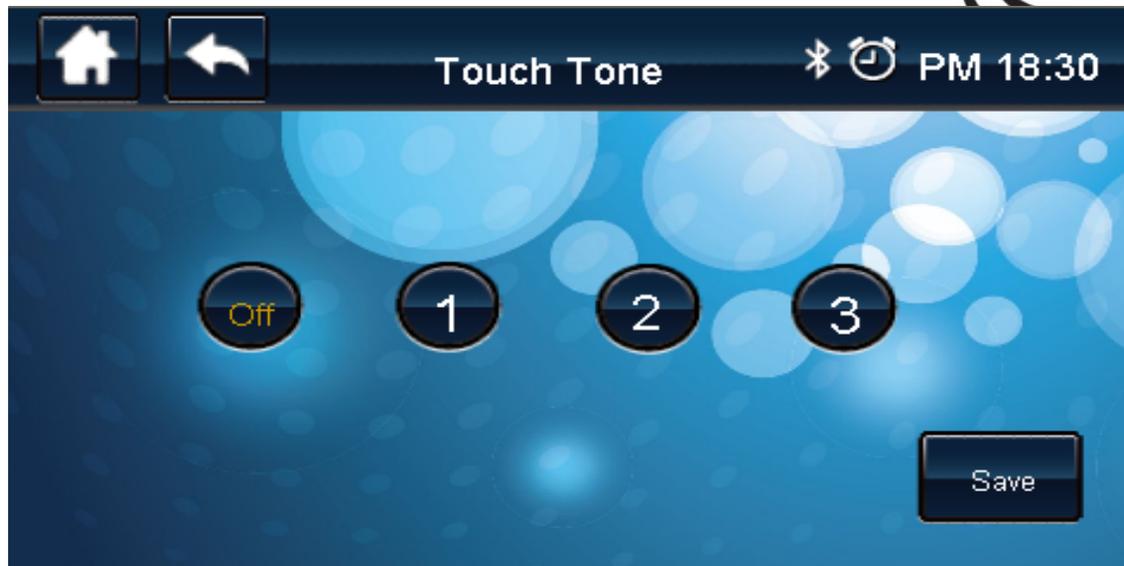
7.17.1 Buttons

On/Off: Shut off touch tone or not.
Touch Tone: Select the touch tone.
Save: Save the touch tone setting.