

S.M.S.L

AD18

Shenzhen ShuangMuSanLin Electronics Co., Ltd.

Safety Notes

To assure the best performance, please read this manual carefully. Keep it in a safe place for future reference.

Warning

- ❶ Install this unit in a well ventilated, cool, dry, clean place-away from direct sunlight, heat sources, vibration, dust, moisture, or cold.
- ❷ Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, or personal injury.
- ❸ On the top of this unit, do NOT place:
 - Other components, as they may cause damage or discoloration on the surface of this unit.
 - Burning objects (i.e. candles) , as they may cause fire , damage to this unit , or personal injury.
 - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user or damage to this unit.
 - Do not cover this unit with a newspaper, tablecloth, curtain , etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, or personal injury.
- ❹ Do not use force on switches, knobs, and/or cords.
- ❺ Use a clean, dry cloth.
- ❻ Do not attempt to modify or fix this unit. Contact qualified SMSL service personnel when anyservice is needed. The cabinet should never be opened for any reason.
- ❼ When not planning to use this unit for long periods of time (i.e. when going on vacation), disconnect the power cable from the AC wall outlet.
- ❽ Before moving this unit, disconnect the power cable from the wall outlet.
- ❾ Be sure to use the AC adaptor supplied with this unit. Using an AC adaptor other than the one provided may cause fire or damage to this unit.
- ❿ For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

AD-18 Features

Ad18 is a multi-functional power amplifier with headphone amplifier. Up to six kinds of input including USB, coaxial, analog, bluetooth and two optical jacks.

Using the advanced CSR BT 4.2 as bluetooth solution.

Using DSP+AMP from TI .

Headphone amplifier adopts independent circuit.

Built-in SDB sound patented belongs to S.M.S.L.

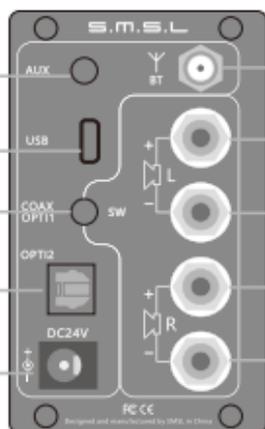
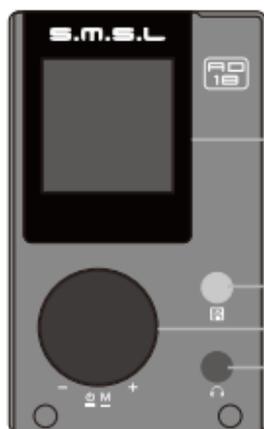
SDB:

SDB sound which patented belongs to S.M.S.L, it improves the fidelity of sound. For the best sound effects, SDB is not only improve BASS, but also will adjust dynamic for bass and treble according to input source.

Specifications

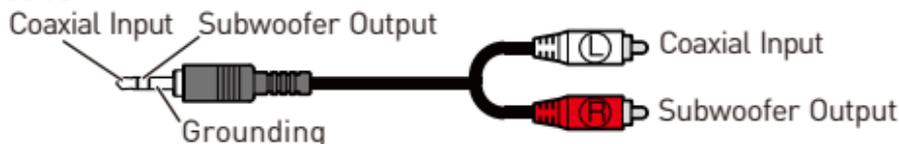
Input:		USB/Optical*2/Coaxial/ AUX/Bluetooth
THD+N:	Speakers	0.04%
	Headphones	0.008%
SNR:	Speakers	90dB
	Headphones	100dB
USB compatibility:		windows XP/7/8/8.1/10
Bit depth:		24bit
Sampling rate:	USB	44.1KHz-96KHz
	Optical,Coaxial	44.1KHz-192KHz
Amplifier power:	4 Ω	80W+80W
headphone amplifier power:	32 Ω	53mW@THD=0.04%
	64 Ω	26mW@THD=0.02%
	150 Ω	11mW@THD=0.02%
Amplifier consumption:	50W	
Standby power:	0.8W	

Part Names and Functions



- A** Display
- B** Remote receiver window
- C** Knob
- D** Earphone jack
- E** Analog AUX input
- F** USB input
- G** *3.5 coaxial/3.5 optical Subwoofer output
- H** Optical input
- I** Power input jack
- J** Bluetooth antenna
- K** left speaker+
- L** left speaker-
- M** Right speaker+
- N** Right speaker-

*Note



Cables used for connections

Audio cable



Optical cable



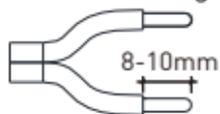
Optical cable



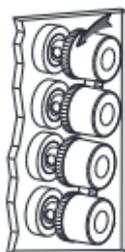
USB cable



Bare wire length

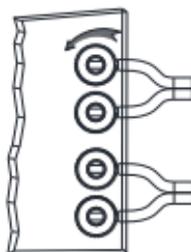


3. lock the speaker cable

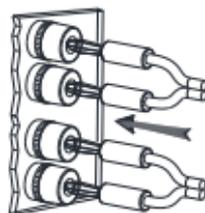


1. Rotary screw cap.

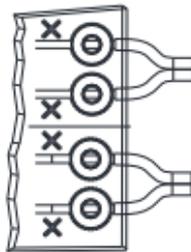
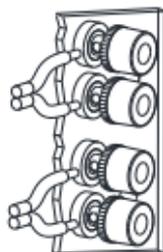
2. Side insert speaker cable



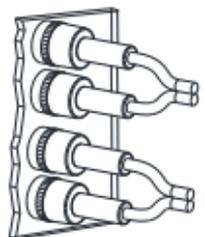
Bare wire is too long,
cause a short-circuit



Using the
Banana plugs



[CORRECT]



Operation



Function Key: Long press to switch off unit. When menu display, Long press to return to desktop and short press to switching menu.

Display screen illustration
please long-press function key when you boot this unit first time. power on machine into display screen (figure 1).

① Sampling rate

Note: When the machine is muted. There will show 'MUTING'. It shows NO SIGNAL when without input.

② Input source.

③ Speaker mode or headphone mode.

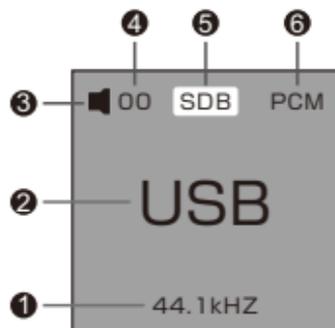
When headphone is playing with, it shows , When speaker is playing with, it shows .

④ Volume

AD18 featured with function of memorizing volume even machine power off. If volume was up to 20 in last time usage, initial volume will set as low as 20 when you restart it. If volume is below 8. in last usage, initial volume will set up as 8 itself when you restart it.

⑤ EQ mode you are using.

⑥ Digital Audio format.



(figure 1)

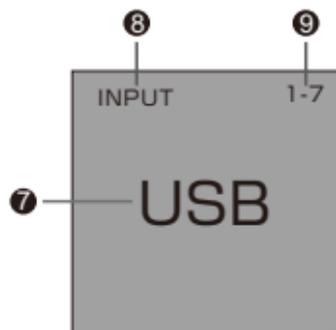
Main Menu Introduction

Short press MENU key into AD18 menu

Input source → Output way → EQ Mode → Bass adjust → Treble adjust



Input source MENU (figure 2)



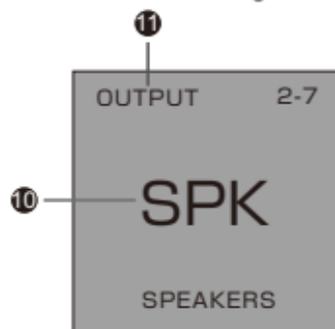
(figure 2)

⑦ When it shows USB input, revolving MENU key clockwise into switch of input source. totally 6 input sources.

USB → OPT11 → OPT12 → COAX → BT → AUX

⑧ Display USB input you are playing.
⑨ AD-18 totally have six MENU, this is MENU ONE.

OUTPUT mode (figure 3)



(figure 3)

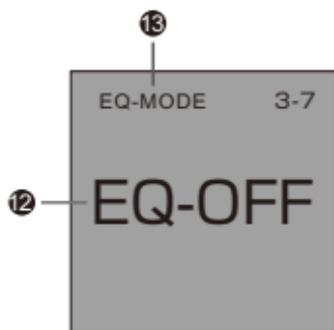
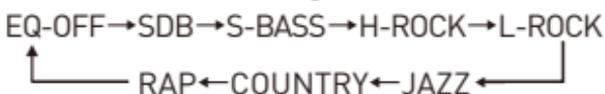
- 10 Device includes two outputs, power amplifier and headphone amplifier output. Clockwise revolving knob to switch.

SPK(Speaker)→HP(Headphone)

- 11 Output mode selection.

EQ mode MENU (figure 4)

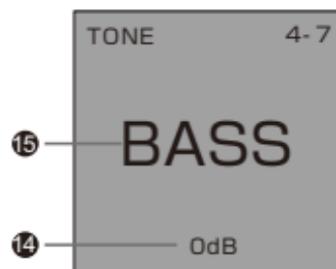
- 12 Totally seven kinds of input mode. Clockwise revolving knob to switch.



(figure 4)

- 13 EQ mode selected.

EQ manual operation (figure 5/6)



(figure 5)

- 14 Manually adjusting TONE's gain. (Adjust gain's value by revolving knob clockwise).
Note: adjustable range is -8dB—+8dB

- 15 Adjusts the bass sound.

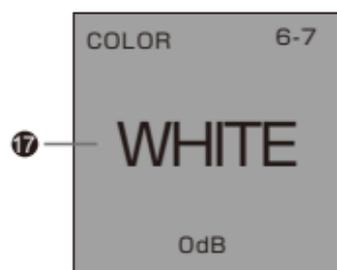
EQ manual operation (figure 5/6)

- 16 Adjusts the treble sound.



(figure 6)

Font color change (figure 7)



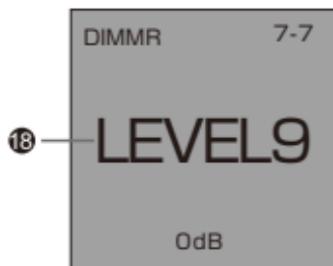
(figure 7)

- ⑰ There are six kinds of color for selection. Easily changing color by revolving menu knob.



Dimmer Setting (figure 8)

- ⑱ Total dimmer level is 9.



(figure 8)

NFC connection instruction

AD18 build-in NFC function. Please make sure that your phone NFC is on when you connect with it.

Ad18 will recognize phone when phone NFC area get close and induce to AD18 NFC area.

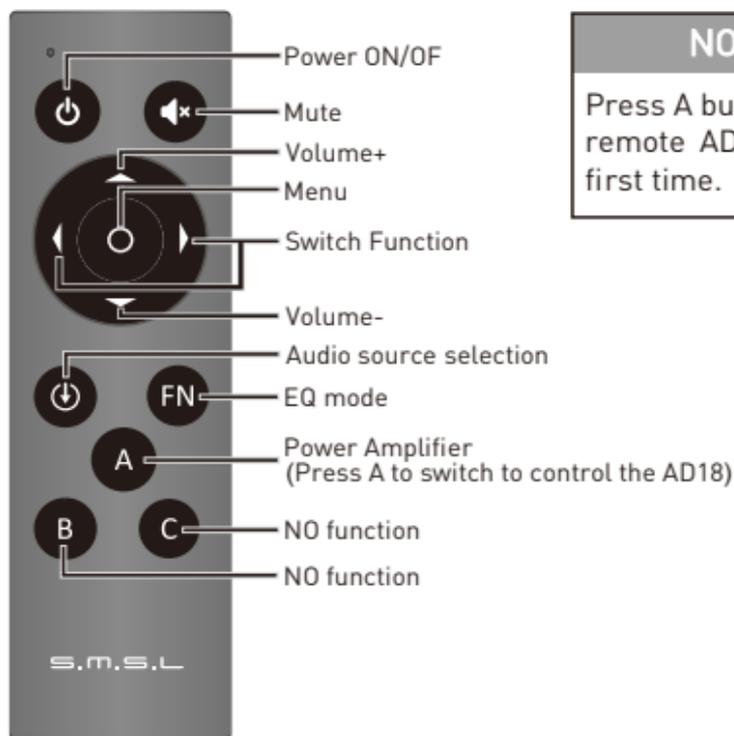
Notes: Please make sure your phone get NFC before you want to use NFC function from this machine. Otherwise, it will be unable to use NFC function.



Factory Reset:

Long-Press power key without power input first, then power on the unit, until screen shows LOGO.

Remote controller



NOTE

Press A button before remote AD18 for the first time.

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