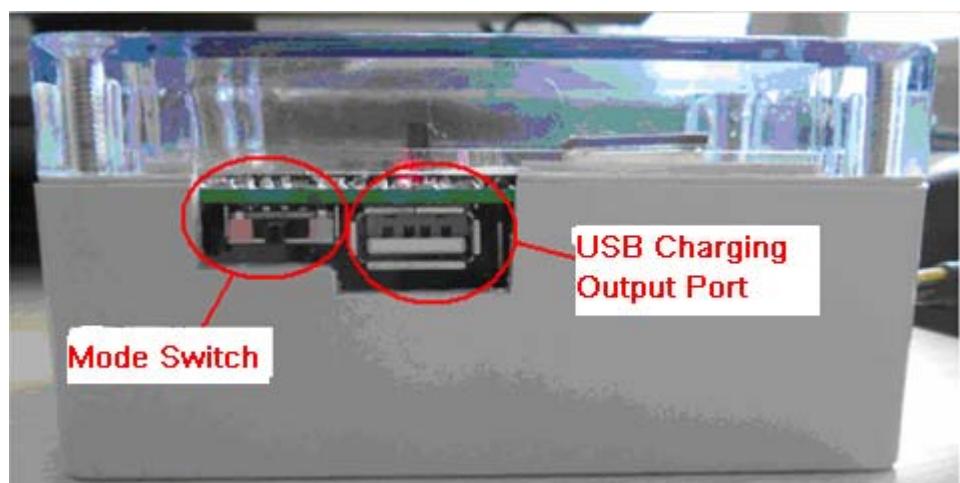
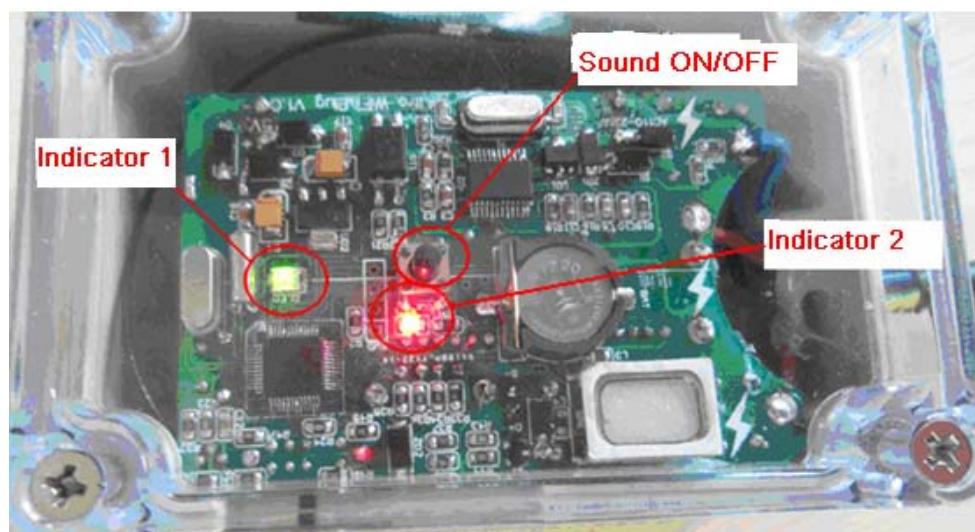
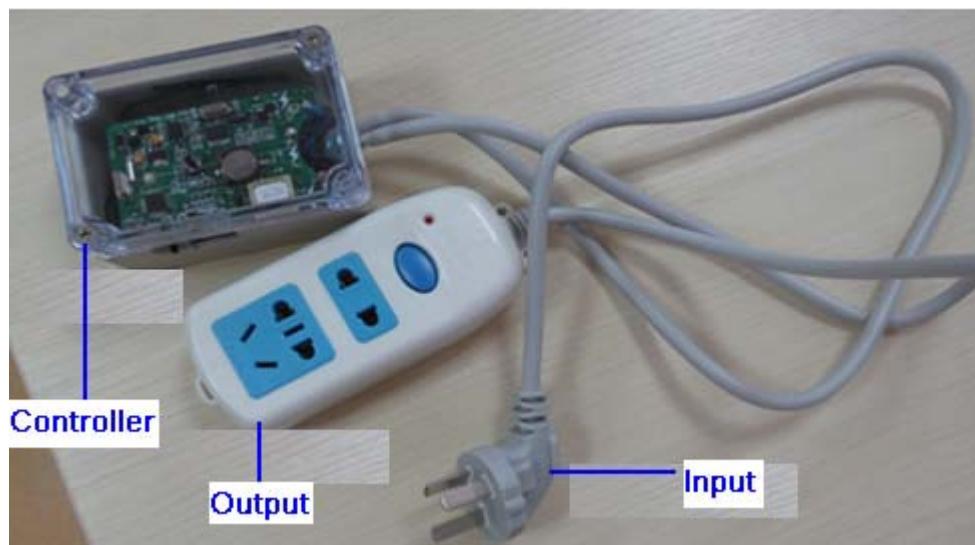


## Aifro MenoPlug User Manual (Express Version)

### 1. Introduction to product outward appearance



**Power Input:**

**Voltage:** AC 85-265v 50/60Hz

**Power Output:**

**Voltage:** AC 85-265v 50/60Hz

**Sound ON/OFF:**

Switch on to play the sound prompts of the device status.

**Indicator 1:**

**Red light always ON:** Network function is turned off and there is always switch output.

**Green light always ON:** Network function is turned off and there is no switch output.

**Red light flashing (quick flashing):** Network enabled, but no connection is established, and there is switch output.

**Red light flashing (slow flashing):** Network enabled, the connection is established and there is switch output.

**Green light flashing (quick flashing):** Network enabled, but no connection is established, and there is no switch output.

**Green light flashing (slow flashing):** Network enabled, the connection is established and there is no switch output.

**Red light and green light alternately flashing:** Device malfunction

**Indicator 2:**

**Red light ON:** Network connection is established.

**Red light OFF:** No network connection.

**Mode Switch:**

**Toggle switch to left:** Always On mode, there is always switch output, red light on.

**Toggle switch to middle:** Network mode, switch is controlled by network, light flashing.

**Toggle switch to right:** Always OFF mode, there is no switch output, green light on.

**USB Charging Output Port:**

Provide 5V, 1A charging for mobile devices

## **2. How to use**

- (1) Toggle the mode switch to the middle position and enter the network mode.
- (2) Turn on the power and Indicator 1 starts flashing, ready to establish the network connection.
- (3) Install AifroController.apk to the mobile phone (supporting Android 2.2 or above).
- (4) Open the WLAN list on your mobile phone, select "Device0001" or "Device0002" and input the password 12345678 to connect. After connected successfully, Indicator 1 will turn to slow flashing, and Indicator 2 is on.
- (5) Run AifroController and tap "ON" or "OFF" to turn on/turn off the switch.

### **3. Electrical Parameters**

#### **Switch Parameters:**

**Input:** Voltage: AC 85-265v 50/60Hz, Current: Maximum 16A

**Output:** Voltage: AC 85-265v 50/60Hz, Current: Maximum 16A

#### **Power module parameters:**

##### **1. Input features:**

Input current: 0.065 (AC110V) - 0.032 (AC220V) A (under the condition of full load)

Input surge current: 20A (under the condition of full load)

Input voltage: AC 85-265v 50/60Hz (under the condition of full load)

##### **2. Output features:**

Output voltage: DC 5V ( $\pm 0.1V$ )

Output current: 1000mA

Output efficiency: 85% (rated load)

Output ripple: 150mV

Power: 5W

Dimension: 5.1 x 2.4 x 2.0 (cm)

Operating humidity: -20~60°C

Relative humidity: 40~90%

Power On/Off overshoot: 150%

Output rise time: 100mS

#### 4. WiFi module parameters

	<b>Items</b>	<b>Index</b>
<b>Wireless parameters</b>	Standard Authentication	FCC/CE
	Wireless Standard	802.11 b/g/n
	Frequency Range	2.412GHz-2.462GHz
	Transmit Power	802.11b: 19.24 dBm (@1Mbps)
		802.11g: 19.45 dBm (@6Mbps)
		802.11n: 20.23 dBm (@HT20, MCS0)
		802.11n: 20.04 dBm (@HT40, MCS0)
	Receiver Sensitivity	802.11b: -93 dBm (@11Mbps, CCK)
		802.11g: -85 dBm (@54Mbps, OFDM)
		802.11n: -82 dBm (@HT20, MCS7)
	Antenna option	External: I-PEX connector
		External: Pad connection (not welding I-PEX)
<b>Hardware parameters</b>	Data Interface	UART
		PWM
		GPIO
	Operating Voltage	2.8~3.6V
	Operating Current	Peak [Continuous TX]: 200mA
		Normal [WiFi ON/OFF, DTIM=100mS]: Average: 12mA, Peak: 200mA
	Standby [WiFi Shutdown]: <80uA	
<b>Software parameters</b>	Operating Temperature	-40°C~85°C
	Storage Temperature	-45°C~125°C
	Dimension	22mm×13.5mm×6mm, 1mm×102mm DIP
	Wireless Network Type	STA/AP/STA+AP
	Security Mechanism	WEP/WPA-PSK/WPA2-PSK
	Encryption Type	WEP64/WEP128/TKIP/AES
	Firmware Upgrade	Local Wireless, Remote
	Custom Development	Web Page Upgrade Support SDK for application development
	Network Protocol	IPv4,TCP/UDP/FTP/HTTP
	User Configuration	AT+instruction set. Android/iOS Smart Link APP tools

## **Aifro Inc.**

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### **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 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 between the radiator & your body