

80*100/mm

Instruction Manual

W&O



PORTABLE SPEAKER

WO-89 model

20W RMS OUTPUT BASS BOOST MODE 4-6H PLAYTIME

1.Product Specification Document

Company Name: Shenzhen Tianchen HechuangTechnology Co., Ltd.
Product Name: Bluetooth Speaker
Product Model: WO-89
Voice Announcement: Neutral English Tone
Bluetooth name: WO-89

2.Hardware Description

Product Solution	HUAYAOXIN	Bluetooth version	V5.4
Main Control Chip	HA3616A	Power amplifier chip	CS83722E
Output Power	20W	Peak power	150W
Product Frequency Response	80Hz - 18KHz	Input sensitivity	45dB
Static Electricity Leakage	10uA	Charging voltage	DC5V
Charging Time	4h	Discharge duration	2h (100% volume)
Product Standard Configuration	Without NTC/OVP	Standard materials	Lead-containing
Product Functions	BT/TF/TWS/FM/RGB/USB	Connection distance	10M
Built-in Lights	Blue light flashes at startup	Product connection	Blue light stays on constantly
Charging Light	Red light stays on constantly	Full charge light	Red light off
Radio Antenna	Built-in ordinary antenna	Call MIC	No call function
Speaker Specifications	76.2MM / 3Q 15W	Speaker material	Black shiny cap/ rubber edge
Battery Specifications	18650 / 1800mAh	Warranty	Battery not covered (mainboard covered).
Product Materials	PP + ABS + Fabric + Silicone	Drop test	Cannot conduct bare machine drop test
Operating Temperature	-10 to +55 °C	Storage temperature	-20 to 60 °C
Product dimensions	132.2 * 132.2 * 157.7 MM	Signal-to-noise ratio	287dB
Waterproof level	IPX 4	Charging current	500mA
Charging chip	4054	Standby time	10 minutes without any connection, automatically shuts down
Input voltage	3.7V - 4.2V		

3.Function operation

Serial Number	Function Keys	Function Operation	Operation Duration	Functional Specifications	Lighting Status	Ringtone
1	 	Long press	2 Seconds	Turn on / Turn off the machine	Blue Light Flashing	Audible Prompt
		Short press	1 Second	When playing: Pause / Play In FM mode: Automatically search for channels / Stop searching for channels		
2		Long press	2 Seconds	Increase the volume		Audible Prompt
		Short press	1 Second	The next song / The next channel		
		Double-click	0.5 Second	Connect TWS pair / Disconnect TWS pair		Audible Prompt
3		Long press	2 Seconds	Reduce volume		
		Short press	1 Second	Previous song / Previous channel		
		Double-click	0.5 Second	Disconnect Bluetooth connection / Reconnect Bluetooth connection		Audible Prompt
4	 M	Short press	1 Second	Switch the colored lights (5 different lighting effects can be switched, press and hold for the 5th time to turn off the lights)		
		Long press	2 Seconds	Switch mode: BT/FM/USB/TF		Audible Prompt
5	TF	SD card	About 8 Seconds	Read MP3/WAV files in FAT32 format, with a maximum capacity of 32GB		Audible Prompt
				During the automatic software upgrade process, there is no notification sound. After the upgrade is completed, there should be a continuous beeping sound.		Audible Prompt

6	USB	USB Flash Drive	About 8 Seconds	Read MP3/WAV files in FAT32 format, with a maximum capacity of 32GB		Audible Prompt
				During the automatic software upgrade process, there is no notification sound. After the upgrade is completed, there should be a continuous beeping sound.		Audible Prompt
7	TYPE C	Charging		DC 5V / 500mA charging	Solid Red Light	

4.FCC warning statements:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.