



Q2/AT-5



Q2/ST-5



Q2/M1



Q2/H1



Q2/L



Q2/H2

- Q2/AT-5: Wireless Microphone for Accordion
- Q2/ST-5: Wireless Microphone for Saxophone
- Q2/M1: Wireless Handheld Microphone
- Q2/H1: Wireless Headset Microphone
- Q2/L: Wireless Lavalier Microphone
- Q2/H2: Wireless Fitness Microphone



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1 Introduction

Q2 is a reliable miniature 2-channel wireless microphone system with high ease of use for live stage performances, weddings, karaoke, street performers, band rehearsals or musical instruments playing. The units are ready to use on the spot without lengthy setup and feature lithium-ion batteries with an operating time of up to 5 hours.

1.1 Product features

- UHF 660-690 MHz frequency range
- 2 channels with 20 adjustable frequencies each available
- Quick pairing at the touch of a button
- Receiver automatically adopts frequency setting
- Ultra-low latency
- Digital transmission provides for high resistance to interference and unique sound quality
- Battery life up to 5 hours
- 48 kHz sampling rate
- Compact dimensions
- Up to 130 feet (40m) line-of-sight operating range.
- Multiple receivers can be combined with 2 transmitters as desired
- Wide range of microphones available for numerous applications

1.2 The package includes:

Receiver ×1

Transmitter ×2

Power Adapter

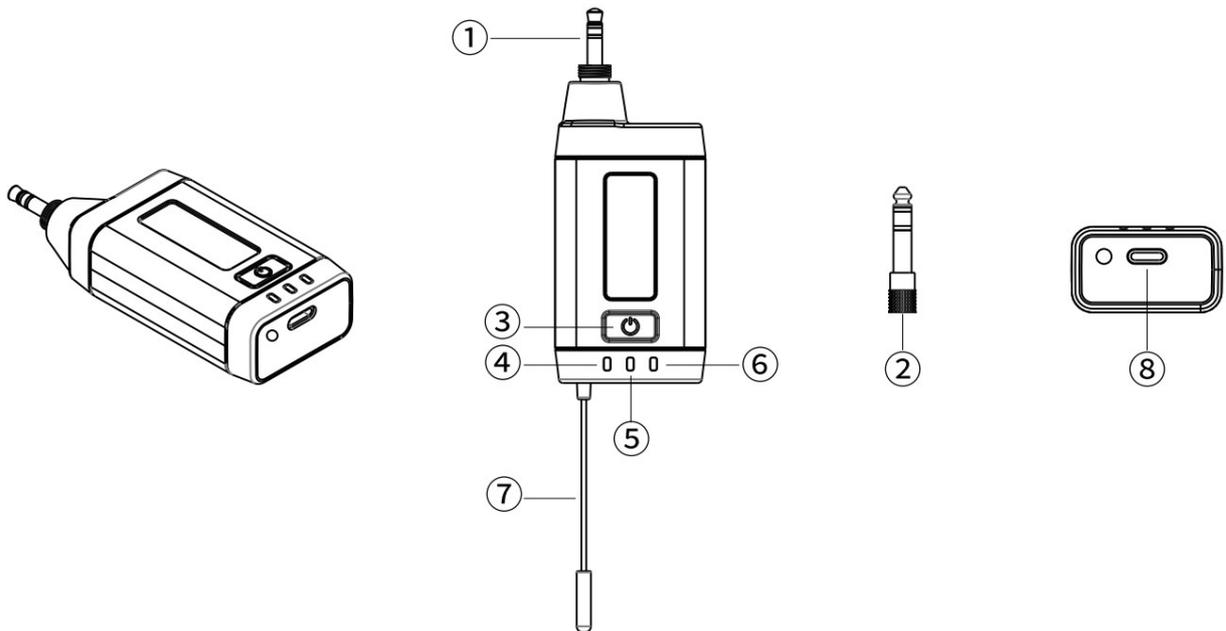
Charging Cable

Audio Cable

User Manual

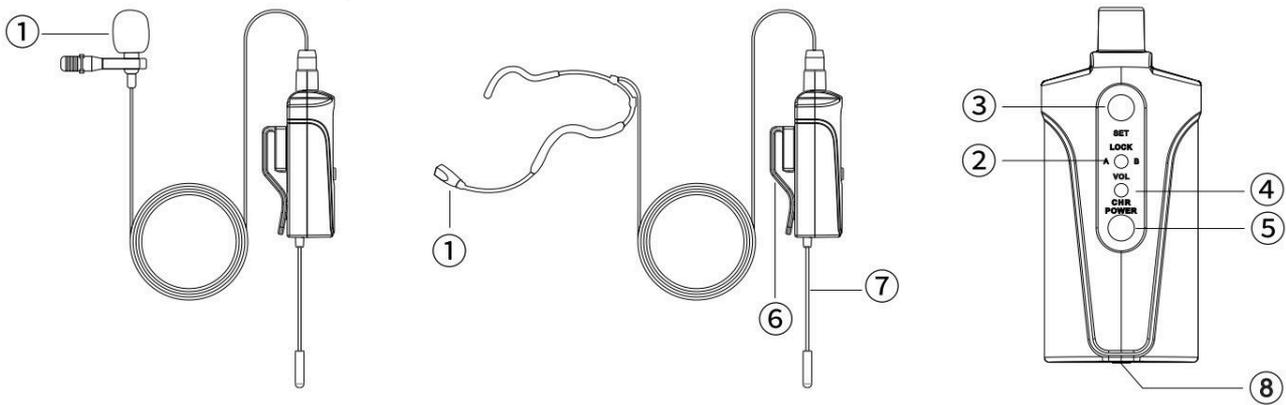
2 Product Overview

2.1 Receiver



No.	Function
1	3.5 mm jack plug. For connection to mixing consoles, active loudspeakers etc.
2	Jack adapter. For use with a 6.3 mm jack socket
3	On/off switch. Long press to switch on/off
4	Group/signal A indicator. Group A is used for radio transmission
5	Power/charge indicator. Blue: on; Red: charging / flash: battery power low
6	Group/signal B indicator. Group B is used for radio transmission
7	Antenna.
8	Charging port. Connect the power supply via USB cable here

2.2 Transmitter with microphone



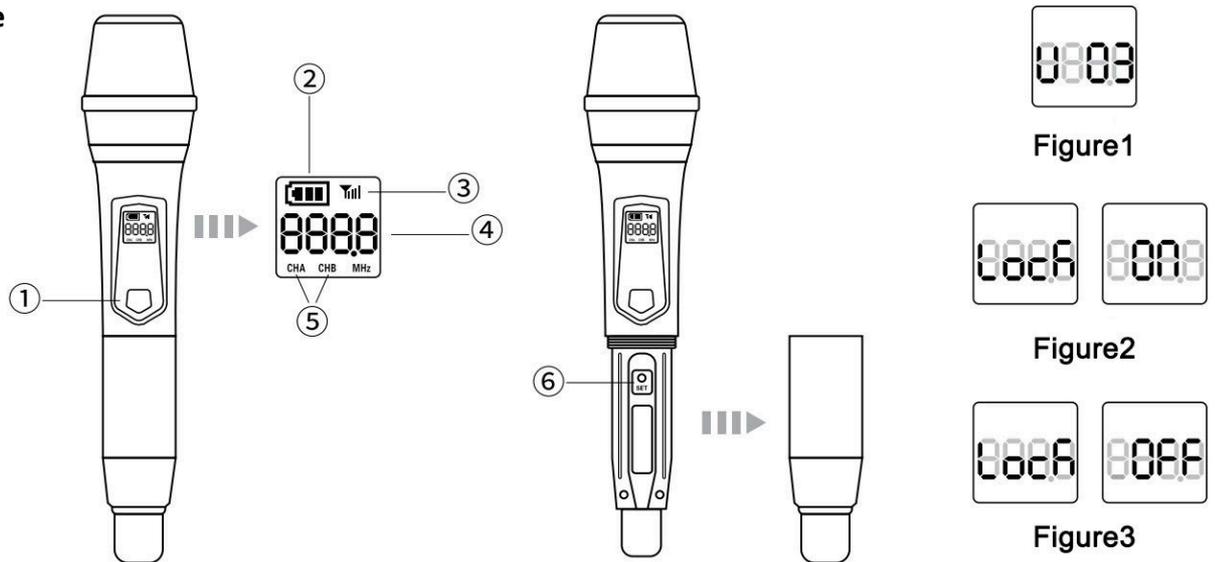
No.	Function
1	Condenser microphone. A wide range of models is available for universal use of the wireless system
2	Indicator. Channel /battery low voltage /volume adjustment /SET button locked Channel A: blue light; Channel B: red light Volume adjustment indicator: green light; SET button locked indicator: yellow light After power on, the channel indicator is always on. When battery voltage is low, the channel indicator flashes at a frequency of 0.5 sec.
3	SET button. Frequency selection: short press once, indicator flashes once Group A/B selection: press and hold 2 sec
3	Group indicator. Blue: group A; Red: group B
4	Charge indicator. Green: charging; Goes out: fully charged
5	Power button. Long press to switch on/off
6	Belt clip. Use this clip to fasten the transmitter to your clothing
7	Antenna.
8	Charging port. Connect the power supply via USB cable here

Volume adjustment setting: The current volume level will be displayed when the device is turned on. The number of times the VOL green light flashes corresponds to the number of volume levels. Press and hold the SET button and the POWER button for **2 seconds** until the VOL green light turns on and then release it to enter the volume adjustment mode. At this time, you can short-press the SET button to adjust the volume. When adjusting the volume, the VOL green light flashes once for the first level, twice for the second level, and so on. If there is no operation, the device will automatically exit the volume adjustment mode after 5 seconds.

SET button locked setting: Press and hold the SET button and the POWER button at the same time for **5 seconds** until the yellow LOCK light comes on (the green volume adjustment indicator VOL light will come on during this period, ignore it)

Note: SET button locked means canceling the A/B channel switching function and FM function of the SET button. Press and hold the SET button and the POWER button for 5 seconds again until the yellow SET button locked indicator LOCK goes out to restore the above two functions.

2.3 Microphone



No.	Function
1	POWER button. Long press 1 sec to switch on/off
2	Battery indicator. Displays the battery status in 3 levels
3	Signal indicator.
4	Frequency. Indication of the transmission frequency Volume. It is only displayed when the mic is turned on. Figure 1 SET button Locked. If the SET button is locked, the Lock ON screen will be displayed when the mic is turned on. Figure 2
5	Group indicators. Indication of group A / B
6	SET button. Frequency selection: short press Group A / B selection: press and hold 1 sec
7	Battery compartment (not shown) To insert batteries, unscrew the cover and insert two 1.5 V AA batteries as indicated in the battery compartment. Screw the cover back on. Note: If the transmitter is not used for a longer period, remove the batteries to prevent damage in case of battery leakage.

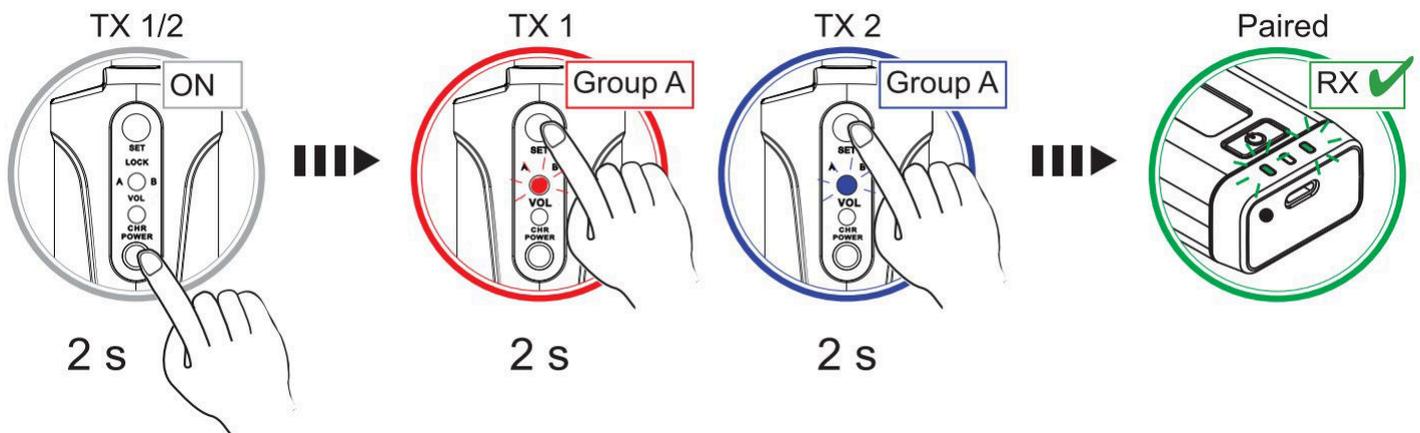
Volume adjustment setting: Press and hold the SET button and the POWER button for **2 seconds** until the screen shown in **Figure1** appears, then release your hand. Then short press the SET button to adjust the volume. If there is no operation, the volume adjustment mode will automatically exit after 5 seconds. At this time, you can also short press the POWER button to exit the volume adjustment mode.

SET button locked setting: Press and hold the SET button and the POWER button for **5 seconds** until the screen shown in **Figure2** appears. Release the buttons to lock the SET button. (The volume adjustment screen will appear during this period, ignore it)

Note: SET button locked means canceling the left and right channel switching function and the FM function of the SET button. To restore the above two functions, just press and hold the SET button and the POWER button for 5 seconds until the Lock OFF screen as shown in **Figure3** appears, then release it.

3 Use

3.1 Setup



► Switching on

To switch on the receiver/bodypack/microphone, press and hold the respective POWER button. Switch the devices off again after use. Otherwise, the rechargeable batteries are used up until the next operation. The assignment of the transmitters to the receiver is kept memorized even after disconnecting the power supply.

► Establish radio link with transmitter 1

Press and hold the SET button on the transmitter and set group A. The control LED lights up blue. The receiver automatically accepts the setting, so that no operation is necessary here. The left group/reception indicator on the receiver lights up green as soon as the radio link between the devices is established.

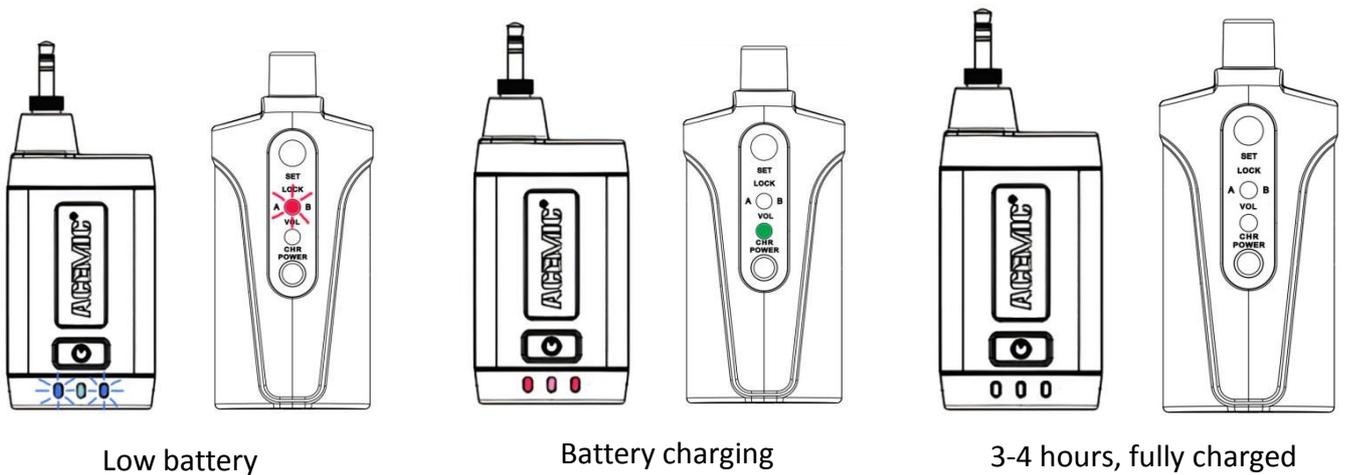
► Establish radio link with transmitter 2

Press and hold the SET button on the transmitter and set group B. The control LED lights up red. The receiver automatically accepts the setting here as well, so that no operation is necessary. The right group/reception indicator on the receiver also lights up green for confirmation.

Notes

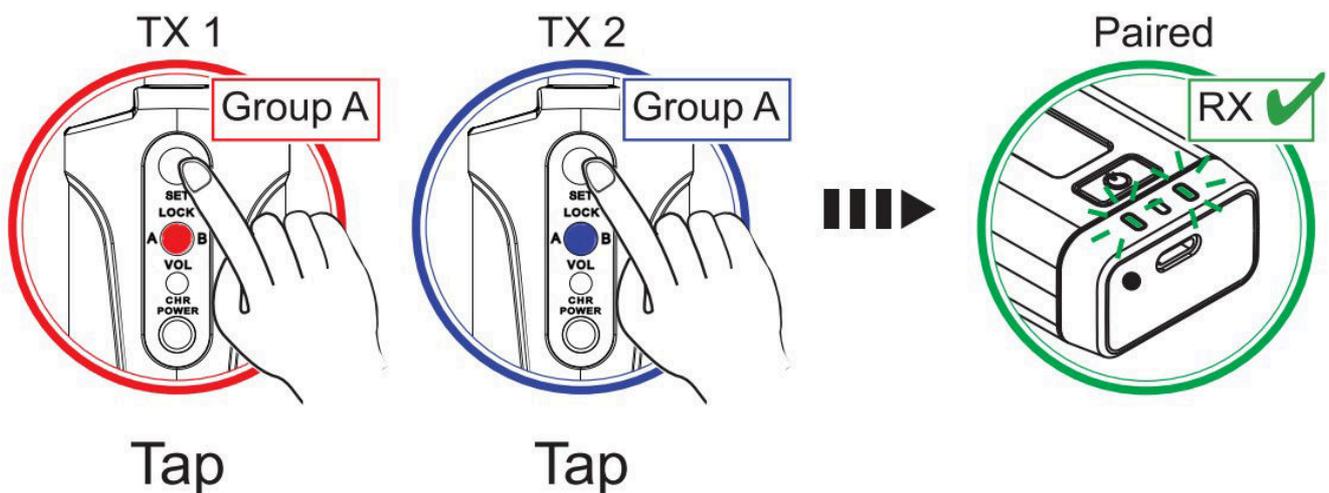
- There are 40 channels divided into 2 groups available for radio transmission. The channels are factory-set and non-adjustable. The corresponding frequencies are given in the table in section 7.2.
- Please note that you can only use a maximum of 2 transmitters at a time. Receivers can be used in parallel operation on the same radio frequency as many as you like.

3.2 Charging



When the battery of the receiver or bodypack is empty or low, the charging indicator flashes. To charge the device, connect it via USB cable to the power supply unit or a USB power source. The battery is now charging and the charging indicator lights up red for the receiver and green for the bodypack transmitter. When the battery is fully charged, the respective LED indicator goes out.

3.3 Changing the transmission frequency



If transmission interference occurs at the site (there are sound dropouts or the reception indicator on the receiver goes out), the transmission frequency can be easily changed on the bodypack transmitter or handheld microphone.

Two options are available for this purpose:

► Fixed frequency selection

Briefly press the SET button on the transmitters. Each keystroke advances one channel (frequencies→section 4.1). The receiver accepts the setting immediately and the reception indicators light up for confirmation.

► Auto scan

Auto scan mode (bodypack only) allows you to automatically set an interference-free transmission channel. In this mode, too, simply press the SET key briefly. The setting is immediately accepted by the receiver and the reception indicators light up for confirmation.

► Change mode



Figure1



Figure2



Figure3

How to switch between fixed frequency selection mode and auto scan mode?

1. When power off, long press the power button until the blue power indicator goes out, then wait for 5 seconds until the blue power indicator flashes 3 times and goes out.

(Long press 14-15 seconds. Figure1)

2. Short press the power button to power on, the blue power indicator shows the current mode at power up.

Mode Status	
Auto Scan	No flash. Figure2
Fixed frequency selection	Flash 3 times. Figure3

4 Technical Specifications

Q2 Receiver	
System:	2 channels
Frequency range:	UHF 660-690 MHz
Modulation:	Pi/4 DQPSK
Range:	40 m (within line of sight)
Latency:	<6 ms
Sample rate:	48 kHz
Frequency response:	60-15000 Hz \pm 2 dB
S/N ratio:	>92 dB
THD:	<0.8 % at 1 kHz
Sensitivity:	-92 dBm
Audio connection:	3.5 mm jack (mono)
Power supply:	Power supply: Battery: lithium ion 3.7 V, 1000 mAh, 2.2 Wh / use time 5 hrs Charging port: 5 V DC, 1 A via USB-C Included PSU: 100-240 V \sim , 50/60 Hz / 0.6 A / max. 5 W
Dimensions, Weight:	190 x 18 x 32 mm (LxBxH), 45 g

M1 Hand-held microphone	
Frequency range:	UHF 660-690 MHz
Modulation:	Pi/4 DQPSK
Range:	40 m (within line of sight)
RF power output:	10 mW
Capsule:	Dynamic
Polar pattern:	Cardioid
Battery:	2 x 1.5 V, type AA
Power consumption:	160 mA
Battery life:	6 hours
Dimensions:	257 x 50 mm
Weight:	288 g

Bodypack Transmitter	
Frequency range:	UHF 660-690 MHz
Modulation:	Pi/4 DQPSK
Range:	40 m (within line of sight)
RF power output:	10 mW
Capsule	Condenser
Polar Pattern	Lavaier mic: omnidirectional; Headset mic: unidirectional Instrument mic.: unidirectional
Audio connection:	3.5 mm jack (mono)
Power supply:	Power supply: Battery: lithium ion 3.7 V, 600 mAh, 2.2 Wh / use time 5 hrs Charging port: 5 V DC, 1 A via USB-C
Dimensions, Weight:	200 x 18 x 22 mm (LxBxH), 35 g

4.1 Radio frequencies in MHz

UHF 660-690 MHz

Group A		Group B	
CH1	660.00	CH1	670.00
CH2	660.50	CH2	670.50
CH3	661.00	CH3	671.00
CH4	661.50	CH4	671.50
CH5	662.00	CH5	672.00
CH6	662.50	CH6	672.50
CH7	663.00	CH7	673.00
CH8	663.50	CH8	673.50
CH9	664.00	CH9	674.00
CH10	664.50	CH10	674.50
CH11	665.00	CH11	675.00
CH12	665.50	CH12	675.50
CH13	666.00	CH13	676.00
CH14	666.50	CH14	676.50
CH15	667.00	CH15	677.00
CH16	667.50	CH16	677.50

CH17	668.00	CH17	678.00
CH18	668.50	CH18	678.50
CH19	669.00	CH19	679.00
CH20	669.50	CH20	679.50

Note: To avoid intermodulation interference, only use frequencies with 600 kHz distance to each other, i.e. always skip 2 channels.