

# Specification and operating instuction QR-RD-161-A1(20180622) (including product technical specifications and operation instructions)

The form number: QR-RD-161-A1 (20180622)

The form number: QF	R-RD-161-A1 (20180622)	(including product te	chnical specifi	ications and operation instructions)	
product type	■ headset □	speakers 🗆 other			
project name	Wireless noi headset-B057-C-001	se cancelling	filling date	2021/01/30	
Image	B057		BOM bare code		
Product Specifications (measured and filled by electroacoustic and electronic engineers)			nd electronic engineers)		
1. Brief descr	iption of the scheme	:			
Bluetooth solution		BES2300Y			
Bluetooth Standard:		BT5. 0			
Profile		A2DP v1.3 AVRCP v1.5 HFP v1.6			
Audio transmis	Audio transmission format		SBC AAC		
RF launch		8dB			
Transmission R		2402-2480mHz			
Receive Sensit		≤-85dBm			
Direct distanc	e		loor≥20 米		
Pairing name		SOUNDPEATS A6			
2. Micro head	<u> </u>				
Microphone Unit:		4015			
Directivity:		Omnidirectional /Omni-Directional			
S. P. L:		-42dB			
Impedance:		0. 96Κ Ω			
Frequency Response:		20Hz-20KHz			
Operating voltage:		2V			
3. The horn par	ameters				
Speaker diameter:		$40\pm0.3$ mm			
Impedance:		$32\Omega\pm15\%$			
S. P. L:		117dB ± 3dB (1K, 1mW IEC318)			
Rated power:		10mW			
Frequency Response:		20Hz-20KHz			
4. Parameters o	f noise reduction par	rt:			
Microphone Uni	t:	6022			
Directivity:		Omnidirectional /Omni-Directional			
Impedance:		2. 2Κ Ω			
S. P. L:		−34± 1dB			
Noise amplitude:		$30\pm 2dB$			
5. The battery					
Working mode					
Li-battery Capability 50		500mAH			
Talking time 2		20 hours BT			
Playing time		15hours BT+ANC			
		0.8-1 hours			
Charging Mode		Type-C/5V			
		1.5A the output current ensure the charging t		er adapter need to be≥1.5A to	



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Bluetooth headset instructions			
Function	Key operation	Function description on detail	LED status
	Press and hold the power button for 3 seconds	When off, press and hold the power button for 3 seconds	
D		and the headphones will turn on, with the audio prompt	The blue LED lights
		"Power on''.	for 2 seconds
Power on		If there is a pairing record, enter the connection status	then flashes once
		to connect the last connected device. If unsuccessful, it	every 3 seconds
		will automatically enter the pairing state after 7 seconds.	



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		After 10 minutes of standby, it will automatically shut down	
		if there is no connection.	
		when no pairing record ,it enters the pairing state ;	
		After 10 minutes of standby, it will automatically shut down	
		if there is no connection.	
	Press and hold the	When on, Press and hold the power button for 4 seconds, and	The red LED lights
Power off	power button for 4	the headphones will turn off with the audio prompt "power	for 2 seconds then
	seconds	off", the red LED lights for 2 seconds then shut off.	shut off.
	Press and hold the	1. With power-off, press and hold the power button for	The LED with
/Pairing	power button for 5	5 seconds and the headphone will enter pairing mode. The	alternately flash
mode	seconds	LED will alternately flash Red and Blue.	red and blue.
		When pairing successful , the headphones will audio prompt	
Connectio		"Connected", and the blue LED will flashes once every 5	The blue LED
	N/A	seconds	flashes once every
n state		Seconds	5 seconds
		When on without connection or in pairing status, short press	The blue LED
Connect	Short press the power		
back	button	the power button, will connect back to the last connected	flashes once every
0 .		device	5 seconds
Connect		When connected status, the distance exceeded, it will enter	
back when	27.6	the standby status, the blue LED flashes once every 3	The blue LED
exceed	N/A	seconds for 10 mintues; after 10 minutes if no connected,	flashes once every
the		it will automatically shut down. In this state, it will	3 seconds
distance		active connect back to the last connected device.	
		When disconnected the bluetooth manually, the headphones	The LED will
Disconnec	N/A	will audio prompt "Connected", the LED will altermately	alternately flash
ted state		flash red and blue to enter the pairing state	Red and blue.
	Short press the power	Short press the power button	The blue LED
Playing	button	can replay the media while the headphone is in pause status	flashes once every
		can repray the moura while the headphone is in passe status	5 seconds
/Pause	Short press the power	Short press the power button can pause the media while the	The blue LED
playing	button	headphone is in playing media status	flashes once every
praying		neadphone is in praying media status	5 seconds
		Short press + button can increase the volume level while	The blue LED
/Volume	Short press the "+"	on music palying mode or talk mode, there will hear "beep"	
up	Short press the "+"	while the volume is to Max, the Volume memory is saved as	flashes once every
		a final adjustment.	5 seconds
		Short press - button can decrease the volume level while	W 11 1D
/Volume	Short press the "-"	on music playing mode or talk mode, , there will hear	The blue LED
down	Short press the "-"	"beep" while the volume is to Min, the Volume memory is saved	flashes once every
		as a final adjustment.	5 seconds
/2-7			The blue LED
/Next	Press and hold the	Press and hold the Volume+ for approximately 1 second to	flashes once every
song	Volume+	go to next song	5 seconds
/Last	Press and hold the		The blue LED
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song	Volume-	Press and hold the Volume- for approximately 1 second to go to last song	flashes once every 5 seconds
/Answer the call	Short press the power button	Short press the power button can answer a call while there is a call incoming; There will have voice prompt"du"	Red light flash interval 200mS
/Calling	N/A	It can't turn it off when talking	The blue LED flashes once every 5 seconds
/Three-wa	/no function	When calling, another call comes in, short press the Power"button, you can hang up the current call and answer another call	Red light flash interval 200mS
Reject	Press and hold the power button for 2 seconds	Press and hold the power button for 2 seconds can reject a call while there is a call incoming	The blue LED flashes once every 5 seconds
End the	Short press the power button	Short Press the power button can end a call while the call in progress	The blue LED flashes once every 5 seconds after ending the call
Redial last number	Double click the power button	Double click power button can do redial last number w	Red light flash interval 200mS
Voice assistant	Long press Power button for 2s then release	When the headset is in connected, press and hold the Power button for 2s and then release, audio prompt"du" to turn on the voice assistant (Siri)	The blue LED flashes once every 5 seconds
Voice transfer	Long press Power button for 2s	Long press Power button for 2s audio prompt"du" to switch the sound between headphone and mobile phone when receving a call	The blue LED flashes once every 5 seconds
AUX input	N/A Short press the ANC	1. When the Bluetooth is turned on and not connected, when the AUX signal is inserted, the AUX signal is played, and the noise reduction key can be pressed to switch the noise reduction. When ANC is ON, there is no ise reduction effect, and when ANC is OFF, there is no noise reduction effect;  2. When the Bluetooth is turned on and connected, when the AUX signal is inserted, the Bluetooth is automatically disconnected and the AUX signal is played; press the noise reduction button to switch noise reduction, ANC ON has noise reduction effect, and ANC OFF has no noise reduction effect;  3. When the AUX is unplugged, when the headset has a pairing record, it will enter the back-connecting stateTimeout of 7 seconds will enter the pairing state; when there is no pairing record, it will directly enter the pairing state.  4. AUX is not available while the headset is charging  1. When on , short press the ANC button , Noise reduction is	The red LED be on for 2 seconds then be off
on/off	button	on, audio prompt "ANC ON", and the blue LED be on; then short press the button , the Noise reduction is off, audio prompt	



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		"ANC OFF", the blue LED be off	
		3. When ANC OFF, When the unconnected state reaches 10	
		minutes, the headset will automatically shut down; when ANC	
		ON, When the unconnected state reaches 10 minutes, the	
		headset enters a special state(The bluetooth light is off,	
		and the bluetooth cannot be searched). In this state, the	
		headset will never turn off. When the button turns off noise	
		reduction and keeps it for 2 minutes, the headset will	
		automatically turn off and turn on noise reduction again,	
		returning to the state that noise reduction has been on.	
			When charging:the
		1. The red LED is always on when charging ;when finished	red LED is always
		charging ,the red LED will be off.	on;
Charging	Charging		Finished
		2. When USB is plugged in for charging, it will power down	charging: the blue
		and hardware reset ;	LED is always on
		3. press the power button can't power on	
		In the unconnected state and in the search match state, long	Purple LED be on for
DUT mode		press the power button and v- for 5s at once to enter the	1s and be off for
		DUT mode	1s
			The purple LED be
C1	Press and hold the	In the Off-call state, Press and hold the power button and	on , to enter the
Clear up	power button and V+	V+ for 5 seconds at once, till the purple LED be on for	pairing
the phone	for 5 seconds at once	2 seconds then off ,audio prompt"du du",it automatically	state, alternately
pairin		enters the pairing state.	flash red and blue
			LED
Low	1. Low battery reminde:	r: Low-voltage alarm Bluetooth headset emits "Battery Low" pr	ompt sound, red light
battery	flashes slowly, flashi	ing once every 3 seconds	
	2. From low power to s	shutdown for about 10 minutes and alarm 3~5 times, once eve	ery 3 minutes, test
	conditions: turn on no	ise reduction, play ferry music, headset maximum volume, mob	oile phone 70% volume
	(That's 11 bars volume	e on the iPhone)	

#### **FCC STATEMENT:**

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.

**Warning:** 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



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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.

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

Preparation (Engineer) : Approval (Project Manager) :