

User's Manual

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PRELIMINARY

Harris® Bluetooth®

Remote Speaker Mic 12082-0800-01

HARRIS® TECHNOLOGY TO CONNECT,
INFORM AND PROTECT™

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TABLE OF CONTENTS

	<i>Page</i>
1 SAFETY CONVENTIONS.....	4
2 INTRODUCTION	5
3 GETTING STARTED.....	7
3.1 CHARGE THE BATTERY	7
3.2 POWER ON/OFF	7
3.3 VOLUME CONTROL	7
3.4 SOFTWARE RESET.....	7
3.5 LED INDICATORS	7
3.5.1 State Indications	7
3.5.2 Event Indications	8
3.6 TIMEOUTS	8
3.7 BUTTONS.....	8
3.8 MICROPHONE PERFORMANCE TIP	9
3.9 PAIRING SPEAKER MIC.....	9
3.9.1 First Time or New Pairing.....	9
3.9.2 Pair RSM with an iPhone®	9
3.9.3 Pairing an iPhone with the RSM	10
3.9.4 Enable RSM Controls.....	11
3.9.5 Select the RSM for Audio Output	12
4 OPERATION.....	13
4.1 OPERATIONAL PROCEDURES	13
4.2 NORMAL OPERATION	13
4.3 AUDIO AND PTT CONTROL.....	13
5 CUSTOMER SERVICE	14
5.1 CUSTOMER CARE.....	14
5.2 TECHNICAL ASSISTANCE	14
FIGURES	
Figure 2-1: RSM Controls and Indicators.....	5
Figure 2-3: RSM Rear View	5

1 SAFETY CONVENTIONS

The following conventions are used throughout this manual to alert the user to general safety precautions that must be observed during all phases of operation, service, and repair of this product. Failure to comply with these precautions or with specific warning elsewhere in this manual violates safety standards of design, manufacture, and intended use of the product. Harris assumes no liability for the customer's failure to comply with these standards.



The **WARNING** symbol calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond a **WARNING** symbol until the conditions identified are fully understood or met.



The **CAUTION** symbol calls attention to an operating procedure, practice, or the like, which, if not performed correctly or adhered to, could result in damage to the equipment or severely degrade the equipment performance.



The **NOTE** symbol calls attention to supplemental information, which may improve system performance or clarify a process or procedure.

2 INTRODUCTION

The Harris Bluetooth® Remote Speaker Mic (RSM), 12082-0800, is a wireless device that utilizes Bluetooth® technology. It incorporates a speaker, microphone with push to talk, emergency button, and auxiliary buttons. Support for an audio headset is provided by a 4 pin audio jack, which when used, mutes the RSM speaker. The internal battery is charged using an industry standard micro-USB connector. The rear of the speaker mic includes a clip for attachment to a lapel or belt.

The RSM supports a covert mode in which LED indications are suppressed and audio annunciations are selectively muted. The RSM supports Harris LMR portable and mobile radios, as well as Android™ and iOS™ devices running the BeOn® application. Depending on the operating mode; LMR or BeOn, buttons may function differently. Refer to **Virhe. Viitteen lähdeä ei löytnyt.** for the speaker mic controls and indicators.



Figure 2-1: RSM Controls and Indicators



Figure 2-2: RSM Rear View

INCLUDED IN THE PACKAGE:

One (1) Bluetooth Remote-Speaker-Microphone (RSM)

One (1) USB to Micro USB cable

3 GETTING STARTED

3.1 CHARGE THE BATTERY

The RSM should be charged before first use and after 10-12 hours of use.

1. Power OFF the RSM and connect a micro USB cable to the microphone's USB port.
2. Connect the USB-A connector to a computer or a wall charger.
3. A SOLID RED light on the RSM indicates charging. The light turns off once the unit is fully charged. Charge time is approximately 2-3 hours.

3.2 POWER ON/OFF

- Power On: Press and hold the Power button for 3 seconds and release.
- Power Off: Press and hold the Power button for 3 seconds and release.

After power up, LED indicator may be turned off, if desired, by operating the device on COVERT mode (see Section 3.4). If the RSM is not already paired, it will go into Pairable mode.

3.3 VOLUME CONTROL

- Volume Up: Press the upper volume button for 2-3 seconds on the side of the RSM. Press the button longer to increase the volume. An audio beep indicates each audio increase step.
- Volume Down: Press the lower volume button on the side of the RSM. Functionality and audio indications are the same as the volume up button.

3.4 SOFTWARE RESET

To perform a software reset on the RSM, simultaneously press and hold the SWB1, SWB2, PTT1, and PTT2 buttons.

After a few seconds, two red LED blinks indicate that the RSM is reset and it enters pairable state

3.5 LED INDICATORS

3.5.1 State Indications

STATE	COLOR	PATTERN	INTERVAL
Connectable	Blue, Blue, Red	3 Blinks (100 ms each)	2400 ms
Pairable	Red, Green	2 Blinks (100 ms each)	100 ms
Connected	Blue, Blue, Blue	3 Blinks (100 ms each)	2400 ms
Call Setup	Purple	1 Flash (100 ms)	100 ms
Active	Blue	1 Flash (100 ms)	2400 ms
DFU Mode	Green	Continuous	-
Test Mode	White	Continuous	-
Charging	Red	Continuous	-
Low Battery	Red	Same pattern as the state would have normally, but color RED	-

3.5.2 Event Indications

EVENT	COLOR	PATTERN	NOTE
Power On	Red	LED on for 2000 ms	-
Power Off	Red	LED on for 2000 ms	-
SW Reset	Red, Red	2 Blinks (1000 ms each)	-
Link Loss	Red, Red, Red	3 Blinks (200 ms each)	Repeats on top of Connected state with approximately 15s interval.
Covert On	Red, Red	2 Blinks (1000 ms each)	-
Covert Off	Green, Green	2 Blinks (1000 ms each)	-
PTT/PTTS Pressed	Red	Continuous	continues until button released

3.6 TIMEOUTS

Some RSM states have timeouts defined that trigger an event if the timeout is exceeded. Certain events also trigger a timeout.

TRIGGER	DURATION	ACTION	NOTE
Enter Connectable State	300 s	Shutdown	-
Enter Pairable State	120 s	Shutdown	-
Link is Lost	300 s	Shutdown	Link loss is announced with beep and LED pattern every 15s

3.7 BUTTONS

Button presses have three (3) different lengths of presses:

- Short (less than 0.5 seconds)
- Long (more than 2.0 seconds)
- Very Long (more than 5.0 seconds)

Each length can trigger a different action in different states as shown in the table below:

BUTTON	STATE	LENGTH	ACTION
Power			Powers on/off RSM. In a low battery condition, the RSM may turn itself on momentarily and then turn off.
PTT			There are two PTT buttons on the RSM: PTT1 and PTT2. For LMR use, there is no difference between them and the control is the same.
MFB	Call Establishment (Incoming) (ONLY if NO SPP Link Established)	Short	Answer
MFB	Call Establishment, Active Call (ONLY if NO SPP Link Established)	Long	Reject/End
SWB1	Any (Except Covert Mode)	Long	Covert Mode Enable. When enabled, there is no speaker audio; audio from headset only.

BUTTON	STATE	LENGTH	ACTION
SWB1	Covert Mode	Very Long	Covert Mode Disable
PTT	Connectable Short	Short	Reconnect
PTTS	Connectable	Short	Reconnect
SWB1+SWB2+PTT+PTTS	Any	Very Long	Software Reset, Remove Pairings
SWB1+SWB2	Any	Very, Very Long (>10 S)	DFU Mode Enable

3.8 MICROPHONE PERFORMANCE TIP

For best results, do not hold the microphone directly in front of your mouth and do not shout. Best results are achieved when holding the microphone at 15-20 cm in front of your mouth and speaking in a normal volume.

3.9 PAIRING SPEAKER MIC



Refer to the user documentation for the radio or phone when performing the procedures described in this section.

3.9.1 First Time or New Pairing

1. Delete previously paired RSM devices through the radio or phone’s Bluetooth menu.
2. Perform a Software Reset on the RSM (see Section 3.4).
3. From the radio or phone’s Bluetooth menu, select ‘add new.’ Follow the steps displayed on the radio/phone, and select the desired RSM to pair. See Section 3.4 for indications that may aid in troubleshooting.

3.9.2 Pair RSM with an iPhone®



The RSM firmware integration with BeOn is still in BETA.

This section describes pairing the Bluetooth Remote Speaker Mic with an iPhone and connecting to BeOn®.

This procedure is comprised of three steps:

- Bluetooth pairing of your iPhone (Section 3.9.3).
- Enabling RSM controls in BeOn (Section 3.9.4).
- Selecting the RSM as the preferred audio device in BeOn (Section 3.9.5).

3.9.3 Pairing an iPhone with the RSM

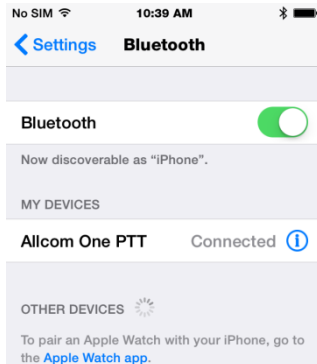
1. Turn on the iPhone
2. Turn on the RSM.
3. On the iPhone, navigate to **Settings**→**Bluetooth**. Enable Bluetooth.



4. The iPhone displays the RSM as “Allcom One PTT.”

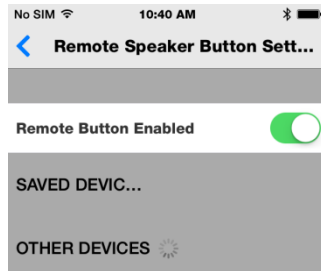


5. Tap “Allcom One PTT.” The iPhone indicates that it is now connected to the RSM.

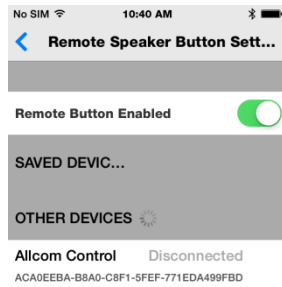


3.9.4 Enable RSM Controls

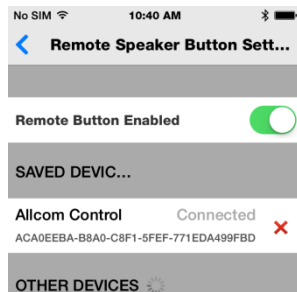
1. On the iPhone, open the **BeOn** application.
2. In BeOn, navigate to **Menu** → **Preferences** → **Remote Speaker Button Settings** and turn on **Remote Button Enabled**.



3. On the RSM, press the Primary PTT button. The RSM appears under **OTHER DEVICES** as “Disconnected.”



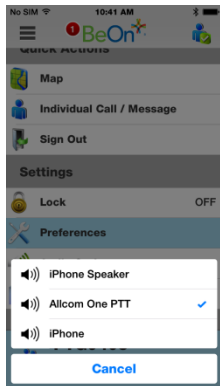
4. Select the RSM. The RSM appears under **SAVED DEVICES** as “Connected.”



3.9.5 Select the RSM for Audio Output

This section describes how to select the RSM as the preferred audio devices for BeOn.

In the BeOn app, select **Menu**→**Audio Option**→**Allcom One PTT**.



4 OPERATION

4.1 OPERATIONAL PROCEDURES

For the Beta version of the RSM, Bluetooth pairing and BeOn audio port selection is maintained between power cycles. However, the first Primary PTT press following the power on cycle of the RSM is used to establish the control connection. For this reason, the first Primary PTT following the power on cycle does not initiate a PTT. All subsequent presses of the PTT buttons initiate a PTT. Likewise, other buttons, such as emergency, are enabled following the first PTT.

When enabling the connection (first Primary PTT), care should be taken to ensure that the desired iPhone is nearby, paired, and that other paired, but unconnected iPhones are not nearby. The Beta version of the RSM does not prevent audio pairing and control connections to establish with different RSMs. If mismatched connections should occur, power off the RSM and re-establish the connection without the mismatched iPhone nearby.

4.2 NORMAL OPERATION

After Bluetooth pairing and BeOn configuration have been completed, power cycle the RSM and then press the Primary PTT to establish the connection before first use.

PTT: Following the initial Primary PTT, the PTT buttons operate as press to talk and release to listen.

Emergency/Distress: Pressing the Emergency button sends the alert to the BeOn application. The BeOn application responds according to its configuration. Distress states are cleared using the standard BeOn user interface.

All other buttons on the RSM including: call, soft button left, and soft button right do not have defined behaviors for the Beta software.

4.3 AUDIO AND PTT CONTROL

To provide low latency Bluetooth PTT response and audio presentation, the BeOn application maintains an open audio port when the RSM and iPhone are connected. The iPhone home screen indicates this open audio port with a red bar (see image below). No microphone audio is collected unless the PTT button is pressed.



5 CUSTOMER SERVICE

5.1 CUSTOMER CARE

If any part of the system equipment is damaged on arrival, contact the shipper to conduct an inspection and prepare a damage report. Save the shipping container and all packing materials until the inspection and the damage report are completed. In addition, contact the Customer Care center to make arrangements for replacement equipment. Do not return any part of the shipment until you receive detailed instructions from a Harris representative.

Contact the Customer Care center at <http://pspc.harris.com/Service/CustomerService.aspx> or:

North America:

Phone Number: 1-800-368-3277

Fax Number: 1-321-409-4393

E-mail: PSPC_CustomerFocus@harris.com

International:

Phone Number: 1-434-455-6403

Fax Number: 1-321-409-4394

E-mail: PSPC_InternationalCustomerFocus@harris.com

5.2 TECHNICAL ASSISTANCE

The Technical Assistance Center's (TAC) resources are available to help with overall system operation, maintenance, upgrades and product support. TAC is the point of contact when answers are needed to technical questions.

Product specialists, with detailed knowledge of product operation, maintenance and repair provide technical support via a toll-free (in North America) telephone number. Support is also available through mail, fax and e-mail.

For more information about technical assistance services, contact your sales representative, or call the Technical Assistance Center at:

North America: 1-800-528-7711

International: 1-434-385-2400

Fax: 1-434-455-6712

E-mail: PSPC_tac@harris.com

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