cardo
SMART H™
HIGH POWERED TECHNOLOGY
ULTRA SLIM DESIGN

cardo
communication in motion®

MANUAL

DESIGNED FOR HJC HELMETS

Dual-Core Technologies

DMC™ Dynamic Mesh Communication | Bluetooth®

For easy reference while on the road, download the Pocket Guide from cardosystems.com/quick-guides/.

This is version 1.0 of the SMART**H** Manual. The latest version of the manuals in your preferred language and various tutorials can be found at cardosystems.com/product-manuals/.

Register your SMARTH

Registering your SMART**H** allows you to download software patches, enjoy new features that are offered from time to time, and most importantly, assures smooth handling of any warranty issues you may have. In the future, your registered SMART**H** may also be eligible for free product upgrades.

It's easy, just visit www.cardosystems.com/cardo-community and you'll be done in no time. Also, rest assured: Cardo does not share your details with others.

Be SMART, register your SMARTH.

cardo

SMART**H**™

CONTENTS

cardo

SMART**H**™

1. INTRODUCTION

Thank you for choosing the Cardo SMART**H** communication and entertainment system for motorcycle helmets.

The SMART**H** is especially designed to fit HJC helmets. Please refer to www.cardosystems.com/smarth/compatibility for an updated list of compatible HJC helmets.

We wish you a great SMART**H** experience and encourage you to write to us at support@cardosystems.com regarding any questions, suggestions or comments you may have.

If you have not yet installed the SMART**H** unit in your helmet, please install it as described in the Installation Guide provided in the package.

And don't forget to register your SMART**H** at www.cardosystems.com/cardo-community.

2. ABOUT DMC TECHNOLOGY

Your SMART**H** features two distinct intercom communication modes: the traditional Bluetooth protocol and the unique DMC* technology.

Use Bluetooth to connect to devices, such as your smartphone or GPS, or to communicate with riders with headsets that don't include DMC technology. However, when connected to other DMC- powered riders, you will soon learn that it is by far the most advanced way to communicate in a group of three or more riders. In DMC mode you will instantly create a dynamically-fluid network of riders to communicate in full conference mode. Unlike Bluetooth, DMC allows anyone in the group to roam freely, overtake each other or even leave the group altogether, without affecting the ongoing conversations of the remaining fellow riders.

How Does It Work?

Any member can start a new DMC group. When in DMC mode, the group creator's device will search for other riders in DMC intercom mode within range and automatically add them to the group.

When using DMC intercom mode, whenever group members exceed range with each other, they are automatically re-connected within split seconds to a closer group member in order to "leapfrog" to the remote rider. This way, everyone remains connected to everyone else.
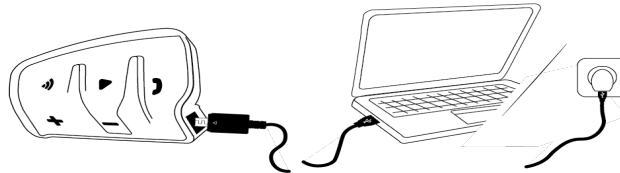
Other riders can join, leave, and rejoin existing DMC groups without affecting the ongoing conversation among the other group members.

3. CHARGING THE SMARTH

Make sure that your SMART**H** battery is charged for at least 4 hours before initial use.

To charge the SMARTH:

1. Using the supplied USB cable, connect your computer or wall charger to the SMART**H** USB port.


- Charging with the wall charger is faster than via a computer USB port.
- Charging your unit switches it off automatically. To use your unit while it is being charged, switch it on. (see Switching Your Unit On/Off on page 8).

During charging, the LED indicates charging status as follows:

- red LED on - charging

- red LED off - charging complete

SMART**H**

4. GETTING STARTED

4.1 GETTING TO KNOW YOUR SMARTH
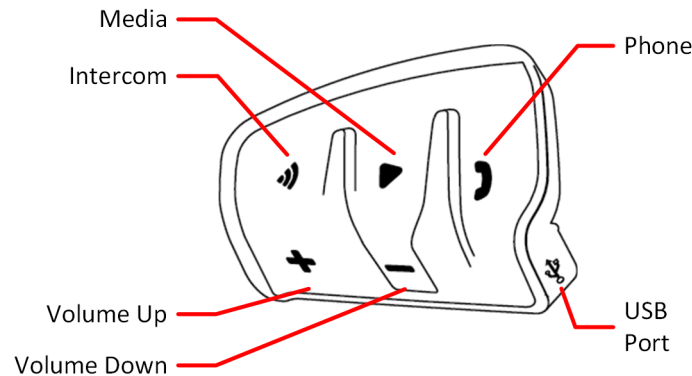
4.2 SWITCHING YOUR UNIT ON/OFF

To switch your SMARTH on:

- Press 🔵 and 🔵 for 1 second. The speaker plays an ascending tone and a voice message "Hello SMART**H**".

  The LED confirms your SMART**H** is on:

  - Normal and low battery - LED flashes blue three times repeatedly.

  - Charging - LED flashes red and purple three times repeatedly.

To switch your SMARTH off:

- Tap 🔵 and 🔵.

  In all battery states, the LED flashes red three times repeatedly, confirming that your SMART**H** is switching off. The speaker plays a descending tone and a voice message "Goodbye".

> Connecting your unit to a charger switches off the unit.

4.3 DIFFERENT WAYS TO OPERATE YOUR SMARTH

You can operate the various features by any of the following methods:

- Pressing a button or combination of buttons on the unit.

- Using the SmartSet app on your mobile device (once it is paired with the unit).

- Automatic voice recognition (by saying a command, for example "Radio On").

- Using the Voice-Assisted Menu in combination with either unit buttons or with the VOX (voice activation). VOX is for hands-free operation of your SMART**H**. You can say a word or phrase loudly when the voice-assisted menu reaches the function you want to use and your SMART**H** performs that function. You can also adjust VOX sensitivity for the microphone, see Configuring Your SMARTH Basic Settings through the SmartSet App on page 36.

LEDs, tones and voice announcements guide you while using the functions of your SMART**H**, as described in SMARTH Modes and Events - LED Indications on page 49.

This manual describes the most suitable method or methods to operate each feature.

4.4 BASIC FUNCTIONS

To turn the volume up for current audio source:

- Tap ⊕ .

  With each tap, a louder tone is played on the speaker until you reach the maximum volume, as indicated by the maximum volume tone.

To turn the volume down for current audio source:

- Tap ⊖ .

  With each tap, a quieter tone is played on the speaker until you reach the minimum volume, as indicated by the minimum volume tone.

To mute the microphone completely and lower the speaker volume to the minimal level when an audio source is active:

- Tap ⊕ and ⊖ .

  A descending tone is played on the speaker.

To unmute the microphone and raise the speaker volume to the previous level when an audio source is active:

- Tap ⊕ and ⊖ .

  A ascending tone is played on the speaker.

> Automatic Gain Control (AGC) adjusts your speaker volume according to ambient noise and riding speed. To adjust AGC sensitivity, see Configuring Your SMARTH Basic Settings through the SmartSet App on page 36.

4.5 PAIRING YOUR UNIT TO BLUETOOTH DEVICES

Your SMART**H** has two Bluetooth channels for connection to Bluetooth devices such as mobile phones, GPS devices and Bluetooth music players with A2DP.

To connect your SMART**H** to a Bluetooth device, you must first pair them while in Standby (see SMARTH Modes and Events - LED Indications on page 49). Once paired, they automatically recognize each other whenever they are within range.

4.5.1 PAIRING THROUGH THE UNIT BUTTONS

> If you are pairing more than one device, Cardo recommends that you pair the mobile phone to channel 1, and the additional device (such as GPS, music player or additional mobile phone) to channel 2.

To pair Bluetooth channel 1 to a mobile phone:

1. Enable Bluetooth on the mobile phone.

2. Press ꭍ for 5 seconds. The LED flashes red and blue.

3. Search for Bluetooth devices on your mobile phone as described in your phone's instructions.

4. After a few seconds the phone lists your SMART**H**. Select it.

5. If prompted for a PIN or Passkey, enter 0000 (four zeros).

6. The phone confirms that pairing has succeeded and the LED flashes purple for 2 seconds.

To pair Bluetooth channel 2 to another Bluetooth device:

1. Enable Bluetooth on the device (such as mobile phone, GPS device, music player).

2. Press ꭍ for 5 seconds. The LED flashes red and blue.

3. Tap ⊙ twice. The LED starts flashing red and green.

> If you are pairing a GPS device, make sure you perform the next step.

4. If you are pairing a GPS device, tap ⊕. The LED flashes slower.

5. On the device you are pairing, search for Bluetooth devices (as described in its instructions).

6. After a few seconds the device lists your SMART**H**. Select it.

7. If prompted for a PIN or Passkey, enter 0000 (four zeros).

8. The device confirms that pairing has succeeded and the LED flashes purple for 2 seconds.

> - If pairing is not completed within 2 minutes, the unit automatically returns to Standby.
> - If you have paired two different mobile phones directly to your SMART**H**, set one as default for making calls (see Setting the Default Mobile Phone on page 44).
> - Not all Bluetooth mobile phones broadcast Bluetooth Stereo music (A2DP), even if the phone has an MP3 player function. Consult your mobile phone's user manual for more information.
> - Not all Bluetooth GPS devices allow connection to Bluetooth audio devices. Consult your GPS User Manual for more information.

To cancel the pairing process:

- Press ⊙ for 2 seconds. The LED stops flashing red and blue or red and green.

To reset all Bluetooth device pairing:

> Resetting all Bluetooth device pairing also resets all Bluetooth intercom pairing.

1. Press ⊙ for 5 seconds.

2. Press ⊛ and ⊙ for 2 seconds.

    The LED flashes purple 5 times slowly, confirming that pairing has been reset.

4.5.2 PAIRING THROUGH THE VOICE-ASSISTED MENU

To pair your SMARTH with devices through the voice-assisted menu:

1. Tap ⊛ and ⊕ twice.

2. When the voice-assisted menu reaches "Advanced Features", tap ⊛ or use VOX.

3. When the voice-assisted menu reaches the required option, tap ⊛ or use VOX.

> - To reset all Bluetooth pairing, select the menu option "Reset Mobiles and GPS Pairing".

5. SETTING UP AND USING DMC INTERCOM GROUPS

You can manage DMC intercom groups to suit your riding requirements, such as creating groups, joining groups, leave and rejoin groups or change your active group.

DMC intercom groups are created and deleted by a group creator. Each group can have up to four riders: one group creator and a maximum of three group members.

Through the SmartSet app, group creators can manage up to six groups simultaneously, and group members can join up to six groups, with one group active at a time.

When creating a group, all members should be within 3 meters / 10 feet of the creator. The group continues functioning even if the creator is no longer available.

If a rider's connection is lost, the rider remains part of the group and reconnects automatically once in range.

> If you purchased the SMART**H** DUO, the retail package contains two units belonging to the same DMC intercom group.

5.1 CREATING DMC INTERCOM GROUPS

When creating a DMC group, you must coordinate with the other riders who will be the group creator. The group creator then creates the group (as defined following), and once it is created, the other riders join the created group as members (see Joining DMC intercom Groups on page 12).

To create a DMC group through the unit buttons:

1. Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press ⦿ and ▶.

2. Press ⦿ for 5 seconds. LED flashes green quickly.

3. Tap ⦿. LED flashes red and green quickly.

4. Other members must join the group within 2 minutes (for SMART**H**, see Joining DMC intercom Groups on page 12; for other Cardo products that support DMC, see their respective manuals at cardosystems.com/product-manuals/).

5. After each member joins successfully, the LED flashes purple.

> After grouping is completed, the DMC intercom conference starts automatically.

To create a DMC group through the SmartSet app:

1. Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.

2. Slide `DMC OFF` to `DMC ON`. SMART**H** is in DMC intercom mode

3. Tap ▤.

4. Tap **GROUP**.

5. Tap **NEW GROUP**.

6. Enter your New Group name and tap **OK**. Your DMC intercom group appears in group list.

7. Tap **ADD MEMBER**.

8. Other members can now join the group (for Cardo products that support DMC, see their respective manuals at cardosystems.com/product-manuals/).

To create a DMC group through the voice-assisted menu:

1. Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press 🔊 and ▶.

1. Tap 🔊 and ➕ twice.

2. When the voice-assisted menu reaches "Advanced Features", tap 🔊 or use VOX.

3. When the voice-assisted menu reaches "Create a Pack", tap 🔊 or use VOX.

4. Other members must join the group within 2 minutes (for Cardo products that support DMC, see their respective manuals at cardosystems.com/product-manuals/).

5. After each successful join, the LED flashes purple.

5.2 JOINING DMC INTERCOM GROUPS

You can join and rejoin a DMC intercom group created by another rider.

You can save up to six groups and select one of them as your active group (see Setting the Active DMC intercom Group on page 13).

If your DMC group connection is lost, you remain part of the group. Once in range of any other group member, you automatically reconnect.

If your DMC group splits with some group members remaining in range of each other but not in range of all group members, you can continue speaking with the members still in range. Once in range of any other group member, you automatically reconnect.

If you join a new DMC group, you automatically leave your existing DMC group.

If you delete a group, you must join the group again. See Deleting DMC intercom Groups on page 13.

To join an existing DMC group through the unit buttons:

1. Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press 🔊 and ▶.

2. On your unit, press 🔊 for 5 seconds. LED flashes green quickly.

3. The unit confirms that joining has succeeded and the LED flashes purple.

> If your LED flashes yellow, the group already reached the maximum of 4 riders. You cannot join the group.
>
> If your LED flashes red, joining failed.

To join an existing DMC group through the SmartSet app:

1. Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.

2. Slide DMC OFF to DMC ON. SMART**H** is in DMC intercom mode.

3. Tap ≡.

4. Tap **GROUP**.

5. Tap **JOIN GROUP**. The SmartSet app confirms that grouping started.

6.   Your DMC intercom group appears in group list.

To join an existing DMC group through the voice-assisted menu:

1.   Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press ⏺ and ▶.

2.   Tap ⏺ and ⊕ twice.

3.   When the voice-assisted menu reaches "Advanced Features", tap ⏺ or use VOX.

4.   When the voice-assisted menu reaches "Join a Pack", tap ⏺ or use VOX.

5.   After successfully joining the group, the LED flashes purple.

5.3 SETTING THE ACTIVE DMC INTERCOM GROUP

To set the active DMC group through the SmartSet app:

1.   Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.

2.   Open the SmartSet app and tap ☰ :

3.   Tap **GROUP**. The Group Manager appears.

4.   Locate the group you want to activate and in that row tap **ACTIVE**.

5.4 DELETING DMC INTERCOM GROUPS

To delete a DMC group through the unit buttons:

1.   Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press ⏺ and ▶.

1.   Press ⏺ for 5 seconds.

2.   Press ⊕ for 2 seconds.

To delete a DMC group through the SmartSet app:

1.   Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.

2.   Open the SmartSet app and tap ☰ :

3.   Tap **GROUP**. The Group Manager appears.

4.   Locate the group you want to leave and in that row tap ✖ .

To delete a DMC group through the voice-assisted menu:

1.   Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press ⏺ and ▶.

1.   Tap ⏺ and ⊕ twice.

2. When the voice-assisted menu reaches "Advanced Features", tap 🔊 or use VOX.

3. When the voice-assisted menu reaches "Leave the Pack", tap 🔊 or use VOX.

5.5 SWITCHING TO BLUETOOTH INTERCOM

To switch from DMC intercom to Bluetooth intercom through the unit buttons:

1. Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).
2. On your unit, tap 🔊 and ▶. The LED flashes blue.

To switch from DMC intercom to Bluetooth intercom through the SmartSet app:

• Slide `DMC ON` to `DMC OFF`.

To switch from DMC intercom to Bluetooth intercom through the voice-assisted menu:

1. Tap 🔊 and ➕ twice.

2. When the voice-assisted menu reaches "Switch to Bluetooth intercom mode", tap 🔊 or use VOX.

6. PAIRING THE BLUETOOTH INTERCOM

To connect your unit to another unit with a Bluetooth intercom, you must first pair their channels. Once paired, the units automatically recognize each other whenever they are in range (line of sight up to 1.2 km / 3,900 ft subject to terrain).

- Pairing a channel replaces any existing paired unit on that channel with the new unit.

- If you purchased the SMART**H** DUO, the retail package contains two pre-paired units in DMC mode.

- The Intercom range with other models is limited to the distance of the unit with the shorter range. For details on how to pair and use your SMART**H** with other Cardo units, go to www.cardosystems.com/smarthcomcompatibility.

6.1 3-WAY AND 4-WAY BLUETOOTH INTERCOM CALLS

In addition to standard 2-way Bluetooth intercom calls, you can use the SMART**H** for 3-way and 4-way Bluetooth intercom calls on Cardo and non-Cardo units. SMART**H** allows full-duplex Bluetooth intercom communication for up to 3 riders or 4 riders/passengers to communicate up to 1.2 km / 3,900 ft in line of sight (subject to terrain).

In a 3-way Bluetooth intercom, you are connected to two riders/passengers and each of those riders are connected only to you. You can call each of the two riders/passengers. If you are already in a Bluetooth intercom call with one rider/passenger, just add another. All three riders/passengers are now connected in a 3-way Bluetooth intercom call.
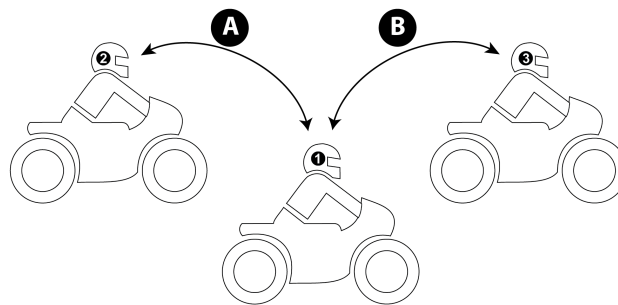
In a 4-way intercom conference call, there are two pairs of riders. In each pair, the riders are connected to each other through channel A. In each pair, one of the riders (riders 2 and 3 in the figure below) is also connected to a rider in the other pair through channel B. All four riders are now all connected in a 4-way Bluetooth intercom call.
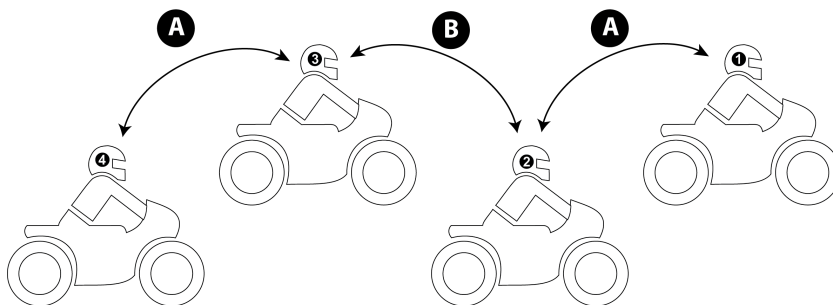
> Cardo recommends that during a 3-way or 4-way intercom conference call, a rider that is using mobile phone or GPS navigation should be connected to only one Bluetooth intercom call (riders 1 and 4 in the above diagram) so they can continue to hear mobile phone and GPS announcements.

Using parallel audio streaming, you can also speak on a 3-way or 4-way Bluetooth intercom call while listening to FM radio. The Bluetooth intercom volume remains the same while the FM radio plays at a reduced volume in the background.

For information on making Bluetooth intercom calls, see Making and Receiving Bluetooth Intercom Calls on page 21

6.2 PAIRING THE BLUETOOTH INTERCOM TO OTHER CARDO UNITS

To pair your unit with Cardo units through the unit buttons:

1. Confirm your unit is in Standby Bluetooth intercom mode (LED flashes blue slowly).

> If your unit is not in Bluetooth intercom mode, tap 🔊 and ▶. For more information see, Switching to Bluetooth Intercom on page 14.

2. On your unit, press 🔊 for 5 seconds. The LED flashes red.

3. Select the Bluetooth intercom channel you would like to pair:
   - Channel A - do not tap anything (default channel).
   - Channel B - tap 🔊 twice. The LED flashes blue.

4. On the other Cardo unit, activate Bluetooth intercom pairing mode (see the other Cardo unit user manual at cardosystems.com/product-manuals/).

5. The unit confirms that pairing has succeeded and the LED flashes for 2 seconds.

> - To cancel the pairing process, press 🔊 for 2 seconds. The LED stops flashing.
> - If pairing is not completed within 2 minutes, the unit automatically returns to Standby.
> - To reset all Bluetooth intercom pairing while in Bluetooth intercom standby mode:
>
>   > Resetting all Bluetooth intercom pairing also resets all Bluetooth device pairing.
>
>   a. Press 🔊 for 5 seconds.
>   b. When the LED flashes red, press 🔊 and 🌙 for 2 seconds. The LED flashes purple 5 times slowly, confirming that pairing has been reset.

To pair your SMARTH with Cardo units through the SmartSet app:

1. Confirm your unit is in Standby Bluetooth intercom mode (LED flashes blue slowly).

> If your unit is not in Bluetooth intercom mode, tap 🔊 and ▶. For more information see, Switching to Bluetooth Intercom on page 14.

1. Open the SmartSet app and tap ☰.

2. Tap **Bluetooth**.

3. Under **Riders**, tap **Add** (or **Change** if you are changing to whom the channel is paired) for the required channel and follow the on screen menus.

4. Select **Cardo unit**.

5. On the other Cardo unit, activate Bluetooth intercom mode (see the other Cardo unit user manual at cardosystems.com/product-manuals/).

6. The unit confirms that pairing has succeeded and the LED flashes for 2 seconds.

> • To reset all Bluetooth intercom pairing, tap **Delete all**.

To pair your SMARTH with Cardo units through the voice-assisted menu:

1. Confirm your unit is in Standby Bluetooth intercom mode (LED flashes blue slowly).

> If your unit is not in Bluetooth intercom mode, tap 🔊 and ▶. For more information see, Switching to Bluetooth Intercom on page 14.

2. Tap 🔊 and ➕ twice.

3. When the voice-assisted menu reaches "Advanced Features", tap 🔊 or use VOX.

4. When the voice-assisted menu reaches your required option ("Pair Intercom Channel A", "Pair Intercom Channel B"), tap 🔊 or use VOX.

5. On the other Cardo unit, activate Bluetooth intercom pairing mode (see the other Cardo unit user manual at cardosystems.com/product-manuals/).

6. The unit confirms that pairing has succeeded and the LED flashes for 2 seconds.

> • To reset all Bluetooth intercom pairing, select the menu option "Reset Intercom Channels Pairing".

6.3 PAIRING THE BLUETOOTH INTERCOM TO NON-CARDO UNITS

The Cardo gateway enables Cardo units to connect to non-Cardo units over Bluetooth.

To pair your SMARTH with non-Cardo units through the unit buttons:

1. Confirm your unit is in Standby Bluetooth intercom mode (LED flashes blue slowly).

> If your unit is not in Bluetooth intercom mode, tap 🔊 and ▶. For more information see, Switching to Bluetooth Intercom on page 14.

2. On your unit, press 🔊 for 5 seconds. The LED flashes red.

3. Select the Bluetooth intercom channel you would like to pair:

   • Channel A - do not tap anything (default channel).

   • Channel B - tap 🔊 twice. The LED flashes blue.

4. Tap 🔊 to activate the Cardo gateway. The LED flashes red and blue.

5. On the non-Cardo unit, activate Bluetooth mobile pairing mode (see the non-Cardo unit user manual).

6. The unit confirms that pairing has succeeded and the LED flashes purple for 2 seconds.

- To cancel the pairing process, press ◉ for 2 seconds. The LED stops flashing.

- If pairing is not completed within 2 minutes, the unit automatically returns to Standby.

- To reset all Bluetooth intercom pairing while in Bluetooth intercom standby mode:

  Resetting all Bluetooth intercom pairing also resets all Bluetooth device pairing.

  a. Press ◉ for 5 seconds.

  b. When the LED flashes red, press ◉ and ◯ for 2 seconds. The LED flashes purple 5 times slowly, confirming that pairing has been reset.

To pair your SMARTH with non-Cardo units through the SmartSet app:

1. Confirm your unit is in Standby Bluetooth intercom mode (LED flashes blue slowly).

If your unit is not in Bluetooth intercom mode, tap ◉ and ▶. For more information see, Switching to Bluetooth Intercom on page 14.

2. Open the SmartSet app and tap ☰ .

3. Tap **Bluetooth**.

4. Under **Riders**, tap **Add** (or **Change** if you are changing to whom the channel is paired) for the required channel and follow the on screen menus.

5. Select **non Cardo unit**.

6. On the non-Cardo unit, activate Bluetooth mobile pairing mode (see the non-Cardo unit user manual).

7. The unit confirms that pairing has succeeded and the LED flashes purple for 2 seconds.

- To reset all Bluetooth intercom pairing, tap **Delete all**.

To pair your SMARTH with non-Cardo units through the voice-assisted menu:

- When using voice-assisted menus, the unit automatically pairs through Channel B.

1. Confirm your unit is in Standby Bluetooth intercom mode (LED flashes blue slowly).

If your unit is not in Bluetooth intercom mode, tap ◉ and ▶. For more information see, Switching to Bluetooth Intercom on page 14.

2. Tap ◉ and ⊕ twice.

3. When the voice-assisted menu reaches "Advanced Features", tap ◉ or use VOX.

4. When the voice-assisted menu reaches "Pair Cardo Gateway", tap ◉ or use VOX.

5. On the non-Cardo unit, activate Bluetooth mobile pairing mode (see the non-Cardo unit user manual).

6. The unit confirms that pairing has succeeded and the LED flashes purple for 2 seconds.

> • To reset all Bluetooth intercom pairing, select the menu option "Reset Intercom Channels Pairing".

6.4 SETTING UP ONE+8 INTERCOM

You can use One+8 Intercom for calling and switching between up to 8 riders. The riders are called "buddies". Using Cardo Community™ (see Configuring Your SMARTH Basic Settings through Cardo Community on page 41), you can to set your name, preset your buddies in your "buddy list" with any name you choose and set each buddy's phone number.

If a phone number is set for a buddy, SMART**H** will call the buddy by phone if Bluetooth intercom is not available and if:

• SMART**H** is in Bluetooth intercom mode.

• Intercom-to-Phone is enabled (see Personalizing Your Device on page 33).

You can then connect with your buddies directly by saying a buddy name from your buddy list. If your buddy is not in intercom range, One+8 Intercom automatically makes a phone call to the buddy.

> Cardo recommends to define your unit's name.

6.4.1 MANAGING YOUR ONE+8 INTERCOM BUDDY LIST

You must add riders to your buddy list before using One+8 Intercom.

To add a buddy to your One+8 buddy list through the unit buttons:

a. Press 🔊 and ➕ for 5 seconds. The LED flashes purple.

b. The unit confirms that the buddy is added to the buddy list and the LED flashes purple for 2 seconds.

To add a buddy to your One+8 buddy list through the SmartSet app:

a. Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.

b. Tap ☰.

c. Tap **Bluetooth**.

> If your SMART**H** is not in Bluetooth intercom mode, the SmartSet app prompts you to change to Bluetooth intercom.

d. In **BUDDIES**, tap **Add**.

e. The SmartSet app prompts you to confirm you are entering Buddy Pairing mode. Tap **YES**.

To add, change or remove a buddy from your One+8 buddy list through Cardo Community:

• In the Cardo Community (see Configuring Your SMARTH Basic Settings through Cardo Community on page 41), go to Buddy Lists and perform the required action.

cardo

cardo

SMART**H**™

7. ON THE ROAD

7.1 USING DMC INTERCOM

You can use DMC intercom to speak with other riders in your DMC group (for more information on creating DMC intercom groups, see Setting Up and Using DMC intercom Groups on page 11

Using DMC intercom, all riders in a group speak hands-free. A rider in a group performs no additional operation to speak or to hear other riders in the group.

Setting Up and Using DMC intercom Groups on page 11

- mute/unmute DMC intercom groups, see Muting DMC intercom Groups on page 20.

- leave DMC intercom groups, see Setting the Active DMC intercom Group on page 13.

- delete DMC intercom groups, see Deleting DMC intercom Groups on page 13

- stream music while in DMC intercom groups, see Streaming Music in DMC intercom Mode on page 21

- switch between DMC intercom and Bluetooth intercom, see Switching to Bluetooth Intercom on page 14

> You must enable VOX when using DMC intercom. To enable VOX, see Configuring Your SMARTH Basic Settings through the SmartSet App on page 36.

7.1.1 MUTING DMC INTERCOM GROUPS

To mute the DMC group through the unit buttons:

1. Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press 🔶 and ▶.

2. On your unit, press 🔶 for 2 seconds.

To mute the DMC group through the SmartSet app:

1. Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.
2. Open the SmartSet app and tap the **DMC**
3. Tap **MUTE GROUP**.

To mute the DMC group through the voice-assisted menu:

1. Tap 🔶 and ➕ twice.

2. When the voice-assisted menu reaches "Mute the Pack", tap 🔶 or use VOX.

> Muting DMC intercom mutes your microphone and speaker.

7.1.2 UNMUTING DMC INTERCOM GROUPS

To unmute the DMC group through the unit buttons:

1. Confirm your SMART**H** is in DMC intercom mode (LED flashes green slowly).

> If your SMART**H** is not in DMC intercom mode, press 🔶 and ▶.

2. On your unit, tap 🔶.

To unmute the DMC group through the SmartSet app:

1. Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.

2. Open the SmartSet app and tap **DMC**.

3. Tap **UNMUTE GROUP**.

To unmute the DMC group through the voice-assisted menu:

1. Tap 🔊 and ➕ twice.

2. When the voice-assisted menu reaches "Unmute the Pack", tap 🔊 or use VOX.

7.1.3 STREAMING MUSIC IN DMC INTERCOM MODE

7.1.3.1 BACKGROUND AUDIO LEVEL AND AUDIO SOURCE PRIORITIES

The SMART**H** can use parallel audio streaming to stream audio from two connected sources simultaneously, so that you can listen to your music or the FM radio while holding a DMC intercom conversation. SMART**H** automatically manages your music and FM radio volume while using DMC intercom. SMART**H** also automatically manages DMC intercom volume with mobile phone calls and GPS. For more information on background audio level and audio source priorities, see Using Parallel Audio Streaming on page 43.

7.2 MAKING AND RECEIVING BLUETOOTH INTERCOM CALLS

- Confirm your SMART**H** is in Bluetooth intercom mode (blue LED flashes slowly).

- To make and receive Bluetooth intercom calls, you must first pair the Bluetooth intercom (see Pairing the Bluetooth Intercom on page 15).

- During a 3 or 4-way Bluetooth intercom conference call while riders are range (1.2 km / 3,900 ft), riders using both Bluetooth intercom channels cannot receive phone calls, GPS instructions or listen to music while the call is in progress.

7.2.1 MAKING A BLUETOOTH INTERCOM 2-WAY CALL

To start a Bluetooth intercom call with a passenger/rider, do one of the following:

- To use the unit buttons:

  - To start a call on Channel A, tap 🔊 .

  - To start a call on Channel B, tap 🔊 twice.

- To use the SmartSet app: On the **INTERCOM** screen, select the required channel (A or B).

- To use the voice-assisted menu:

  a. Tap 🔊 and ➕ twice.

  b. When the voice-assisted menu reaches "Call Intercom", tap 🔊 or use VOX. A Bluetooth intercom call with the passenger/rider on Channel A, B, or A+B starts.

To end a Bluetooth intercom call, do one of the following:

- To use the unit buttons:

  - To disconnect Channels A or B, tap 🔊 .

- To use the SmartSet app: On the **INTERCOM** screen, select the required channel to disconnect.

> If you initiated the Bluetooth intercom call using VOX and remain silent for at least 30 seconds, the call ends.

7.2.2 MAKING BLUETOOTH INTERCOM 3-WAY OR 4-WAY CALLS

> For recommendations on making Bluetooth intercom 3-way and 4-way calls and pairing units for Bluetooth intercom calls, see Pairing the Bluetooth Intercom on page 15.

To start a Bluetooth intercom 3-Way call, do one of the following:

- To use the unit buttons :

  - To start a conference call on Channels A and B, press 🔘 for 2 seconds.

  - To start a call on Channel A, tap 🔘 .

  - To start a call on Channel B tap 🔘 twice.

  - To add Channel A or Channel B to a Bluetooth intercom call, tap 🔘 twice.

- Use VOX. A Bluetooth intercom call on Channels A+B starts (if the riders/passengers are paired and in range).
- To use the SmartSet app: On the **INTERCOM** screen, select Channels A+B.
- To use the voice-assisted menu:

  a. Tap 🔘 and ➕ twice.

  b. When the voice-assisted menu reaches "Call Intercom", tap 🔘 or use VOX.

To start a Bluetooth intercom 4-Way call, do one of the following:

> In a 4-way intercom conference call, there are two pairs of riders. In each pair, the riders are connected to each other through channel A. In each pair, one of the riders (riders 2 and 3 in the figure below) is also connected to a rider in the other pair through channel B. All four riders are now all connected in a 4-way Bluetooth intercom call.
>
>
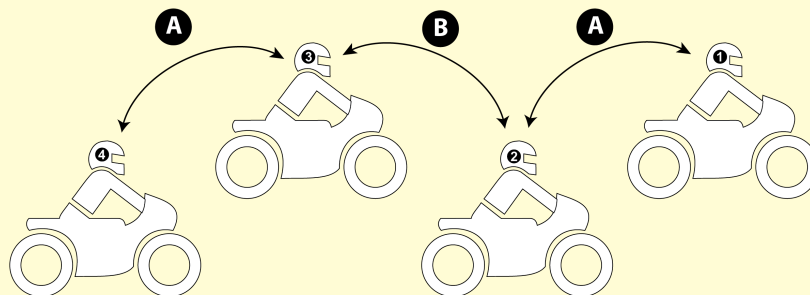
- To use the unit buttons :

  a. Rider 2 presses 🔴 for 2 seconds. A Bluetooth intercom 3-way call with rider 1 and rider 3 starts.

  b. Rider 3 taps 🔴 twice. Rider 4 is added to the Bluetooth intercom call.

- To use the SmartSet app:

  a. On the **INTERCOM** screen, rider 2 selects Channels A+B. A Bluetooth intercom 3-way call with rider 1 and rider 3 starts.

  b. On the **INTERCOM** screen, rider 3 selects Channel A. Rider 4 is added to the Bluetooth intercom call.

To end a Bluetooth intercom call, do one of the following:

- To use the unit buttons:

  - To disconnect rider A, tap 🔴 .

  - To disconnect rider B, tap 🔴 twice.

  - To end all active Bluetooth intercom connections, press 🔴 for 2 seconds.

- If you initiated the Bluetooth intercom call using VOX: remain silent for at least 30 seconds. Any open call is disconnected.

7.2.3 RECEIVING BLUETOOTH INTERCOM CALLS

- If another paired unit calls you via Bluetooth intercom, the call begins instantly.

- To receive Bluetooth intercom calls from unpaired units, see Click-To-Link Calls on page 24.

7.2.4 HOLDING A MOBILE/BLUETOOTH INTERCOM CONFERENCE CALL

You can hold a conference call between a mobile call and Bluetooth intercom (single channel) call.

To add a Bluetooth intercom call to the current mobile call:

- To use the unit buttons:

  - To add rider A to a call, tap 🔴 .

  - To add rider B to a call, tap 🔴 twice.

- To use the SmartSet app: On the **INTERCOM** screen, select the required channel (A, or B).

To disconnect the Bluetooth intercom conference call from the mobile call, do one of the following:

- To use the unit buttons:

  - To disconnect riders A or B, tap 🔴 .

- To use the SmartSet app: On the **INTERCOM** screen, disconnected the active channel.

> After disconnecting the Bluetooth intercom call, you can continue talking on the mobile call. Similarly, if you first disconnect the mobile call, you can continue talking on the Bluetooth intercom call.

7.2.5 BLUETOOTH INTERCOM BUSY SIGNAL

A busy signal is heard when you attempt a Bluetooth intercom call when the other passenger/rider is in a:

- phone call

- Bluetooth intercom call with Channels A and B

- One+8 intercom call
- Click-to-Link call

7.2.6 CLICK-TO-LINK CALLS

Click-to-Link is a spontaneous way to instantly initiate one-on-one intercom calls with a nearby passenger/rider, without being paired.

> - If other Cardo users are nearby, your next Click-to-Link call may randomly connect to any of them.
> - To block incoming Click-to-Link calls, disable Click-to-Link (see Personalizing Your Device on page 33).

To make a Click-to-Link call through the SmartSet app:

1. Open the SmartSet app and tap **Intercom**.
2. Tap **CLICK TO LINK**.

To end a Click-to-Link call through the unit buttons:

- Tap .

To accept a Click-to-Link call through the unit buttons:

- Tap .

To reject a Click-to-Link call through the unit buttons:

- Press for 2 seconds.

To accept a Click-to-Link call through VOX:

- Say a word loudly.

7.3 MAKING AND RECEIVING PHONE CALLS

> You can use your mobile phone normally to make and receive phone calls while paired to your SMART**H**.

7.3.1 MAKING PHONE CALLS

> - If you connected two mobile phones to your unit, you cannot make an additional phone call from the other phone while a phone call is already active.
> - During Bluetooth intercom 3 or 4-way calls, riders that are connected on both channels A and B (see 3-Way and 4-Way Bluetooth Intercom Calls on page 15) cannot receive phone calls.

To make a phone call through the unit buttons (not available during mobile calls or Bluetooth intercom 3 or 4-way calls):

- With your mobile phone's voice dialing - tap .

- Dialing the default speed dial number - tap three times.

- Redialing the last number called - tap twice.

To make a phone call through the SmartSet app:

- In the SmartSet app, tap **Phone** then do either of the following:
  - tap the required speed dial (to define speed dials, see Configuring Speed Dial Numbers on page 37).
  - tap **REDIAL**.

- tap **VOICE DIAL**.

To make a phone call through the voice-assisted menu:

1. Tap 🔊 and ➕ twice.

2. When the voice-assisted menu reaches your required choice ("Voice Dial", "Redial" or "Speed Dial"), tap 🔊 or use VOX.

7.3.2 ANSWERING PHONE CALLS

To answer a phone call through the unit buttons:

- Tap or 🔊 or 🔄 or ▶.

To answer a phone call through VOX:

- Say a word loudly.

7.3.3 REJECTING PHONE CALLS

To reject a phone call through the unit buttons:

- Press 🔄 for 2 seconds.

To reject a phone call through VOX:

- Remain silent for 30 seconds.

7.3.4 ENDING PHONE CALLS

To end a phone call through the unit buttons:

- Tap 🔄.

To end a phone call through the SmartSet app:

1. In the Home screen, tap **PHONE**.
2. Tap **END CALL**.

7.3.5 TOGGLING BETWEEN TWO CALLS ON TWO MOBILE PHONES PAIRED TO YOUR UNIT

Your SMART**H** can toggle between two calls on two mobile phones when both mobile phones are paired to your unit.

To toggle between two calls on two mobile phones through the unit buttons:

- Tap 🔄 twice.

7.3.6 DISCONNECTING THE CURRENT CALL AND SWITCHING TO THE SECOND CALL

To disconnect the current call and switch to the call on the second phone when two mobile phones are paired to your unit, through the unit buttons:

- Tap 🔄.

7.4 MAKING AND RECEIVING ONE+8 INTERCOM CALLS

1. Confirm your unit is in Standby Bluetooth intercom mode (LED flashes blue slowly).

> If your unit is not in Bluetooth intercom mode, tap and . For more information see, Switching to Bluetooth Intercom on page 14.

To make a One+8 Intercom call through the voice command:

2. Tap and or use VOX. You hear a beep.

3. Say the buddy name loudly.

4. You will hear the buddy name and your buddy connects.

> If you hear an incorrect buddy name, tap and to abort the call.

To make a One+8 Intercom call through the SmartSet app:

1. Open the SmartSet app and tap **Intercom**.

2. Tap **1+8**.

3. Tap the required buddy.

To make a One+8 Intercom call through the voice-assisted menu:

1. Tap and twice.

2. You will hear the buddies in the list. When you hear the buddy you want, tap .

3. Your buddy connects.

7.5 LISTENING TO MUSIC AND RADIO

7.5.1 LISTENING TO MUSIC

To start music streaming from your paired device, do one of the following:

- To use the unit buttons: tap .

- To use the SmartSet app: tap **MUSIC**.

- To use the voice-assisted menu:

  a. Tap and twice.

  b. When the voice-assisted menu reaches "Music On", tap or use VOX.

To stop music streaming, do one of the following:

- To use the unit buttons: press for 2 seconds.

- To use the SmartSet app: on the **MUSIC** screen, tap .

To skip to the next track (while streaming music), do one of the following:

- To use the unit buttons: tap .

- To use the SmartSet app: on the **MUSIC** screen, tap .

To skip to the previous track (while streaming music), do one of the following:

- To use the unit buttons: tap ▶ twice.

- To use the SmartSet app: on the **MUSIC** screen, tap ⏮.

To forward auto scan tracks (while streaming music) and then play your desired track, do one of the following:

- To use the unit buttons:

  a. Press ⊕ for 2 seconds. Forward scan plays a few seconds of each track.

  b. When you hear a track that you want to play, tap ▶ or use VOX.

- To use the SmartSet app:

  a. On the **MUSIC** screen, under **MUSIC SCAN**, tap ⏩. Forward scan plays a few seconds of each track.

  b. When you hear a track that you want to play, on the **MUSIC** screen, under **MUSIC SCAN**, tap ⏹.

- To use the voice-assisted menu:

  a. Tap ⸙ and ⊕ twice.

  b. When the voice-assisted menu reaches "Scan Tracks Up", tap ⸙ or use VOX.

  c. When you hear a track that you want to play, tap ▶ or use VOX.

To backward auto scan tracks (while streaming music) and then play your desired track:

- To use the SmartSet app:

  a. On the **MUSIC** screen, under **MUSIC SCAN**, tap ⏪. Backward scan plays a few seconds of each track.

  b. When you hear a track that you want to play, on the **MUSIC** screen, under **MUSIC SCAN**, tap ⏹.

- To use the voice-assisted menu:

  a. Tap ⸙ and ⊕ twice.

  b. When the voice-assisted menu reaches "Scan Tracks Down", tap ⸙

  c. When you hear a track that you want to play, tap ▶ or use VOX.

7.5.1.1 SWITCHING MUSIC SOURCES

If two music (A2DP) audio sources are paired, SMART**H** uses the audio source from which you last played music.

To switch to the other audio source:

1. Stop music (A2DP) playback from the current device (see) Listening to Music on page 26.
2. Play music (A2DP) from the other device.

SMART**H** automatically remembers your last played device.

7.5.2 LISTENING TO FM RADIO

> You can mute the DMC intercom while listening to the FM radio by pressing ⸙ for 2 seconds. Unmute DMC intercom by pressing ⸙

To turn on the FM radio, do one of the following:

> When you switch on your FM radio, the station that was playing when you last switched off resumes playing.

- To use the unit buttons: tap ▶ twice.

- To use the SmartSet app: on the **FM** screen, tap ON/OFF.
- To use the voice-assisted menu:

  a. Tap 📶 and ➕ twice.

  b. When the voice-assisted menu reaches "Radio On", tap 📶 or use VOX.

To turn the FM radio off, do one of the following:

- To use the unit buttons: press ▶ for 2 seconds.

- To use the SmartSet app: on the **FM** screen, tap the On/Off button.
- To use the voice-assisted menu:

  a. Tap 📶 and ➕ twice.

  b. When the voice-assisted menu reaches "Radio Off", tap 📶 or use VOX.

To play a different preset station:

- To use the unit buttons, do one of the following:

  - tap ▶ for the next preset

  - tap ▶ twice for the previous preset

- To use the SmartSet app: On the **FM** screen, tap the desired preset.

To seek the next available station:

- To use the SmartSet app: On the **FM** screen, do one of the following:
  - tap 🔘.
  - tap 🔘.

To scan available stations and select your desired station:

- To use the unit buttons:

  a. Press ➕ for 2 seconds. The FM radio plays each station that it finds for several seconds.

  b. When you hear a station you want to select, tap ▶ or use VOX.

- To use the voice-assisted menu:

  a. Tap 📶 and ➕ twice.

  b. When the voice-assisted menu reaches "Scan Stations Up", tap 📶 or use VOX.

To store a scanned station in the active preset:

- To use the unit buttons: tap 🔘 within 20 seconds of stopping the scan.

> To set all presets efficiently using Cardo Community, see Configuring Your FM Radio through Cardo Community on page 42.
>
> To set all presets efficiently using the SmartSet app, see Configuring Your FM Radio Manually on page 39.

Temporarily Storing New FM Radio Preset Stations Using Auto Tuning

You can temporarily store new FM radio stations in the presets using auto tuning and restore the original presets when you want.

To temporarily store new stations in the presets (auto tuning):

- To use the unit buttons: press 🔘 for 5 seconds.

- To use the SmartSet app: on the **FM** screen, tap 🔲.

- To use the voice-assisted menu:

    a. Tap 🔘 and ➕ twice.

    b. When the voice-assisted menu reaches "Auto Scan 6 Stations", tap 🔘 or use VOX.

To restore the original presets (following auto tuning):

- To use the unit buttons: switch your unit off then turn it back on.

7.5.3 SHARING MUSIC AND RADIO

You can share music and FM radio with a passenger or other rider. Music sharing is more suitable for rider/passenger combinations, while FM radio is also intended for rider/rider combinations.

> - You can share music only in Bluetooth intercom mode.
> - Music and radio can be shared with only one passenger/rider.
> - Bluetooth intercom calls are disabled when sharing music.
> - FM radio sharing opens a Bluetooth intercom call automatically.
> - While sharing music, you cannot use Bluetooth intercom.
> - If you paired your unit to two mobile phones, music will be shared from the mobile phone through which you last played music.
> - When sharing FM radio, either passenger/rider can change station while the Bluetooth intercom call remains open.
> - When you stop sharing FM radio, the Bluetooth intercom call remains open and the FM radio continues to play independently on each passenger/rider's unit.
> - When stop music sharing, music continues on your unit only.

To start/stop sharing, do one of the following:

- To use the unit buttons:

    a. Confirm your SMART**H** is in Bluetooth intercom mode (LED flashes slowly).

> If your SMART**H** is not in Bluetooth intercom mode, press 🔊 and ▶.

    b.   Start playing music or the FM radio.

    c.   Press ⊖ for 2 seconds to start sharing on Channel A (by default).

> To manually select the channel on which to share music or radio:
>
> 1.   Start playing music or the FM radio.
>
> 2.   Start a Bluetooth intercom call on the desired channels (A or B).
>
> 3.   Press ⊖ for 2 seconds.

    d.   To stop sharing, press ⊖ for 2 seconds.

- To use the SmartSet app:

    a.   Confirm your SMART**H** is in Bluetooth intercom mode (LED flashes slowly).

> If your SMART**H** is not in Bluetooth intercom mode, press 🔊 and ▶.

    b.   Start playing music or the FM radio.

    c.   Either:

        - on the **MUSIC** screen, tap .

       or

        - on the **FM** screen, tap .

    d.   Music is shared on Channel A (by default).

> To manually select the channel on which to share music or radio:
>
> 1.   Start playing music or the FM radio.
>
> 2.   Start a Bluetooth intercom call on the desired channels (A or B).
>
> 3.   Either:
>
>   - on the **MUSIC** screen, tap
>   or
>   - on the **FM** screen, tap .

    d.   To stop sharing, either:

        - on the **MUSIC** screen, tap .

       or

        - on the **FM** screen, tap .

- To use the voice-assisted menu (applicable only for Channel A):

    a.   Confirm your SMART**H** is in Bluetooth intercom mode (LED flashes slowly).

> If your SMART**H** is not in Bluetooth intercom mode, press 🔸 and ▶.

b. Start playing music or the FM radio.

c. Tap 🔸 and ➕ twice.

d. When the voice-assisted menu reaches:

- "Start Music Sharing", tap 🔸 or use VOX.

    or

- "Start Radio Sharing", tap 🔸 or use VOX.

e. To stop sharing, do one of the following:

- FM radio - tap 🔸 . The Bluetooth intercom call ends.

- FM radio or music - press ➖ for 2 seconds. If FM radio was shared, the Bluetooth intercom call remains on.

7.6 USING VOICE COMMANDS

You can use voice commands for hands-free operation of certain SMART**H** features. Voice commands use voice recognition. You loudly say a command and SMART**H** performs the action. Voice commands are available in various languages. English is the default language. You can change the language to another available language.

> To select a language that is not in your region, you must first change your region through Cardo Community (see Configuring Your SMARTH Basic Settings through Cardo Community on page 41).

SMART**H** uses pre-defined voice commands. The voice commands for each mode are as follows:

In Mode	To Perform The Action	Say
Standby mode	Hear voice the command list	"Command List"
	Start A2DP music streaming	"Music On"
	Turn on the FM radio	"Radio On"
	Check battery status	"Battery Status"
Standby / FM / Music mode	Connect an One+8 Bluetooth intercom call	<<Say Buddy Name>>[1]
	Connect an Bluetooth intercom conference call with A and B	"Call Intercom"[1]
FM Radio	Turn off the FM radio	"Radio Off"
	Jump forward to the next preset station	"Next Station"
	Jump backward to the previous preset station	"Previous Station"
A2DP Music	Stop/pause A2DP music streaming	"Music Off"
	Play the next music track	"Next Track"
	Play the previous music track	"Previous Track"
DMC	Mute the DMC intercom group	"Mute the Pack"[2]
	Unmute the DMC intercom group	"Unmute the Pack"[2]

[1]You must be in Bluetooth intercom mode.

[2]You must be in DMC intercom mode. For more information, see Setting Up and Using DMC intercom Groups on page 11

To use a voice command:

1. Tap 🔊 and ➕ or use VOX. You hear a beep.

> If you are in DMC mode, you can only use unit buttons to activate a voice command.

2. Say the voice command loudly.

3. The unit confirms your voice command with a voice announcement repeating the voice command.

> If you say the incorrect command, you can cancel by tapping 🔊 and ➕.
>
> If you do not cancel, SMART**H** performs the voice command.

8. PERSONALIZING YOUR DEVICE

Get the most out of your SMART**H** by changing the settings and customizing your unit according to your own personal preferences, using either of the following methods:

- SmartSet App on iOS / Android (see Configuring Your SMARTH through the SmartSet App on page 36).

- Cardo Community on Windows / Mac - minimum requirements - Windows® 7 / Mac OS X 10.8 (see Configuring Your SMARTH Basic Settings through Cardo Community on page 41).

- Unit buttons.

- Configuration voice menu on your unit.

> Cardo recommends customizations and settings before getting out on the road. You can adjust any of these settings as required after experiencing them under road conditions.

Object	Default Value	Description	SmartSet App (iOS/Android)	Cardo Community	Configuration Voice Menu
AGC sensitivity (Off/Low/Medium/High)	Medium	AGC automatically adjusts speaker volume according to ambient noise and riding speed. For example, when set to Low, higher ambient noise will cause the volume increase to kick in at a higher level.	✔	✔	✔
Audio priority (A2DP/Bluetooth intercom)	Bluetooth intercom	Priority of audio source playing through speakers. Either music is not interrupted by an intercom call, or vice-versa.	✔	✔	✔
Background Audio Level	N/A	Sets the background audio volume when parallel audio streaming is on (see Parallel audio streaming (Enable/Disable) below).	✔	✖	✖
Bluetooth friendly name	SMART**H**	Sets the name that appears on your phone while pairing and in the SmartSet app.	✔	✔	✖

Object	Default Value	Description	SmartSet App (iOS/Android)	Cardo Community	Configuration Voice Menu
Click-to-Link settings (Enable/Disable)	Enable	Spontaneous way to instantly initiate one-on-one intercom calls with another Cardo passenger/rider, without being paired.	✓	✓	✓
Create, join or leave a group of passengers/riders	Empty	DMC intercom groups. For more information, see Setting Up and Using DMC intercom Groups on page 11.	✓	✗	✓
Download the latest firmware upgrade	N/A	Stay up-to-date by downloading software updates whenever a new version is available (, see Configuring Your SMARTH Basic Settings through Cardo Community on page 41.	✗	✓	✗
FM Band	According to Your Region	If you are in Japan, select **Japan**. Otherwise, select **Worldwide**.	✓	✓	✗
Intercom-to-Phone (Enable/Disable)	Disable	Automatically divert intercom calls to mobile calls.	✓	✓	✗
Intercom Mode (DMC/Bluetooth)	Bluetooth Intercom	DMC intercom and Bluetooth intercom.	✓	✗	✓
Language	According to Your Region	Voice announcements and voice-assisted menus language (see "Spoken Status Announcements" below).	✓	✓	✓

cardo
SMART**H**™

Object	Default Value	Description	SmartSet App (iOS/Android)	Cardo Community	Configuration Voice Menu
Mobile priority	Mobile 1	If you paired your unit to two mobile phones, you must set one of them as the default phone for outgoing calls.	✓	✗	✗
Parallel audio streaming (Enable/Disable)	Enable	You can hear two audio sources simultaneously. For example, hear GPS while listening to music. Limitations may apply when using certain iOS devices.	✓	✓	✓
RDS (Enable/Disable)	Disable	Radio Data System allows the radio to automatically retune to the strongest frequency available for the FM station you are listening to when the signal becomes too weak.	✓	✓	✓
Set speed dial numbers	Empty	Pre-set phone numbers for automatic dialing.	✓	✓	✗
Set the 6 FM radio presets	107.5	Pre-set FM radio stations.	✓	✓	✗
Spoken Status Announcements (Enable/Disable)	Enable	Voice announcements inform you to whom or to what device you are connected.	✓	✓	✓
VOX activation (Enable/Disable)	Enable	Enables voice activation of certain features for hands-free operation.	✓	✓	✓

Object	Default Value	Description	SmartSet App (iOS/Android)	Cardo Community	Configuration Voice Menu
VOX sensitivity (Low/Medium/High)	Medium	Adjusts your microphone sensitivity for voice activation while riding. For example, in high ambient noise situations, setting VOX sensitivity to low requires speaking loudly.	✓	✓	✓
VOX operation mode (Voice Command/Call Intercom)		Set if VOX opens Intercom or activates voice command function.	✓	✓	✓

> AGC and VOX performance vary based on environmental conditions, including riding speed, helmet type and ambient noise. For improved VOX performance, minimize the wind impact on the microphone by closing the visor and using the large microphone sponge.

8.1 CONFIGURING YOUR SMARTH THROUGH THE SMARTSET APP

Using the SmartSet app is a great way to customize and operate your SMART**H**. It is also very comfortable as a remote control on your handle-bar. The SmartSet app available at Google Play Store and Apple App Store

The minimum operating system requirements for the SmartSet app are:

- Android: 4.0 and higher
- IOS: 8 and higher

8.1.1 CONFIGURING YOUR SMARTH BASIC SETTINGS THROUGH THE SMARTSET APP

To configure your SMARTH through the SmartSet app:
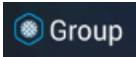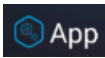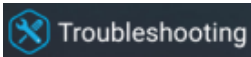
1. Make sure that your unit is paired to the mobile device on which the SmartSet app is installed.

2. Open the SmartSet app and tap ☰ :
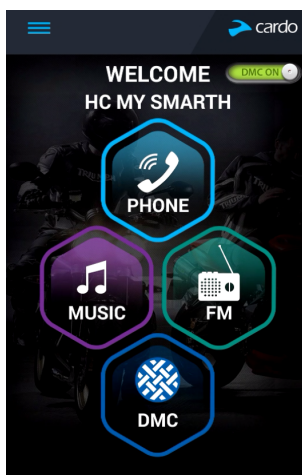
3. Use the appropriate menu to configure your SMART**H** settings:

- **Settings** - SMART**H** features:

Group	Description/Options
MY DEVICE	• Change **Device Name**.
LANGUAGE	• Set **Language**.
Spoken Status Announcements	• Enable/disable.
VOX	• Enable/disable **VOX Activation**. • Set **VOX Sensitivity** (low, medium, or high). • Set **VOX Operation** (**Voice command** or **Intercom call**).
AGC	• Enable/disable **AGC Activation**. • Set **AGC Sensitivity** (low, medium, or high).
FEATURES	• Enable/disable **Click-to-link**. • Enable/disable **IC to Phone**. • Enable/disable **Parallel Audio Streaming**. • Set **A2DP/IC Priority** (**A2DP** or **Intercom**). • Set **FM Band Region** (Worldwide or Japan).
Reset to Factory	• Resets the unit to factory defaults.

- **Bluetooth** - manage devices and passengers/riders, manage One+8 Buddy List.

- **Volume** - sets the level for each audio source (mobile phone, intercom, music, FM, announcements, parallel audio streaming).

- **Group** - DMC intercom group manager - list of groups you created, list of groups you joined, active groups, create a **New Group**, **Join Group**.

- **App** - SmartSet app preferences and general information.

- **Troubleshooting** - **FAQ**, email Cardo **SUPPORT**, **FEEDBACK**.

8.1.2 CONFIGURING SPEED DIAL NUMBERS

To configure the speed dial numbers:

1. In the Home screen, tap **PHONE**.
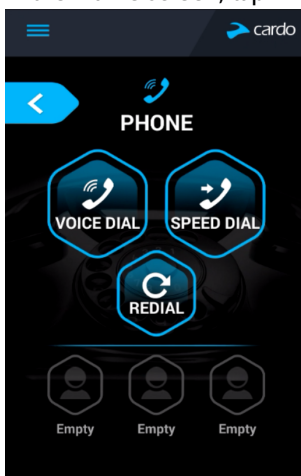
2. Press **SPEED DIAL** or one of the three speed dial icons (at the bottom of the screen) until the following screen appears:
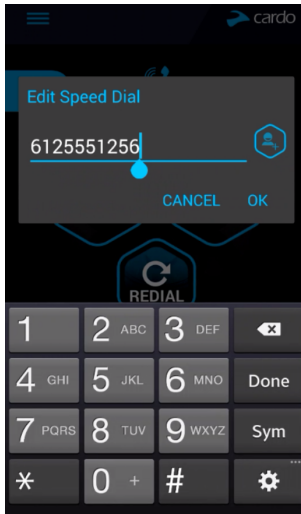
3. Enter the desired phone number and tap OK.

> The three speed dial numbers you configure are only available through the SmartSet app.

8.1.3 CONFIGURING YOUR FM RADIO

Your SMART**H** includes a built-in FM radio with six presets and Radio Data System (RDS), as described in the following sections.

8.1.3.1 SETTING THE FM BAND

The FM Band Frequency is set to Worldwide FM frequencies by default. In Japan, you must change the FM Band.

To set the FM Band:

1. Open the SmartSet app and tap :

2. Tap .

3. Under **FEATURES**, scroll to **FM Band Region** and tap **Worldwide** or **Japan** as required.

cardo

SMART**H**™
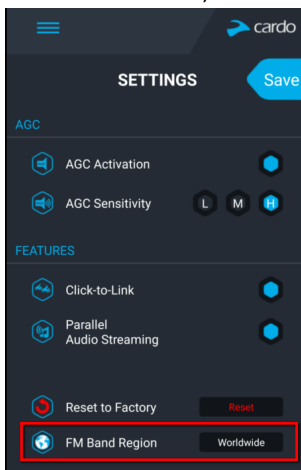
8.1.3.2 CONFIGURING YOUR FM RADIO MANUALLY

You can configure your FM radio preset stations manually or by using auto tuning (see Configuring Your FM Radio Using Auto Tuning on page 39).

To configure the six FM radio preset radio stations manually:

1. In the Home screen, tap **FM**.

2. Press the required preset until the following screen appears:
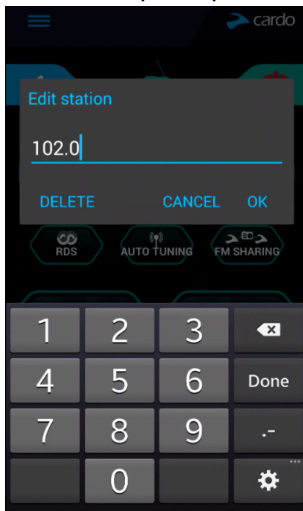
3. Enter the desired FM station's frequency and tap OK.

4. To delete a preset station, tap **DELETE**.

- Preset radio station 1 cannot be deleted.
- When scanning or seeking stations, deleted preset radio stations are skipped. The station scan automatically advanced to the next defined preset station. For more information, see Listening to FM Radio on page 27.

8.1.3.3 CONFIGURING YOUR FM RADIO USING AUTO TUNING

You can configure your SMART**H** FM radio preset stations using auto tuning, which automatically locates FM stations and temporarily stores them.

To temporarily configure the six FM radio preset stations using Auto Tuning through the unit buttons:

- Press ⊝ for 5 seconds.

To temporarily configure the six FM radio preset stations using Auto Tuning through the SmartSet app:

1. In the Home screen, tap **FM**.

2. Press . The presets are temporarily set to FM stations with the strongest signal available.

To temporarily configure the six FM radio preset stations using Auto Tuning through the the voice-assisted menu:

1. Tap and twice.

2. When the voice-assisted menu reaches "Advanced Features", tap or use VOX.

3. When the voice-assisted menu reaches "Auto scan 6 stations", tap or use VOX.

8.1.3.4 CONFIGURING FM RADIO RDS THROUGH THE SMARTSET APP

RDS allows the FM radio to automatically retune to the strongest frequency available for the FM station you are listening to when the signal becomes too weak.

To enable/disable RDS:

1. In the Home screen, tap **FM**.

2. Tap . RDS is enabled/disabled.

8.2 CONFIGURING YOUR SMARTH THROUGH CARDO COMMUNITY

You can configure your SMART**H** unit by connecting the unit to a computer with the supplied USB cable and running the **Cardo Updater** while your computer is connected to the Cardo Community website.

The minimum operating system requirements for the Cardo Updater are:

● Windows® 7

● Mac OS X 10.8

8.2.1 INSTALLING THE CARDO UPDATER ON YOUR COMPUTER

To install the Cardo Updater on your computer:

1. Go to http://cardosystems.com/cardo-community/, register and login.

2. Download the Cardo Updater from the provided link and install it on your computer.

8.2.2 CONFIGURING YOUR SMARTH BASIC SETTINGS THROUGH CARDO COMMUNITY

To configure your SMARTH through the Cardo Community:

1. Run the Cardo Updater.

2. Using the supplied USB cable, connect your unit to the computer USB port.

3. If this is the first time you are connecting your unit, the **Edit my Profile** screen appears. Click **SETTINGS**.

4. The **GENERAL SETTINGS** window appears:

5. Set your preferred options for each feature and refer to the provided explanations as a guide.

> If a new firmware version is available, follow the instructions on the screen to update your SMART**H** with the latest features.

8.2.3 CONFIGURING YOUR FM RADIO THROUGH CARDO COMMUNITY

To configure the six FM radio preset radio stations using Cardo Community:

1. Scroll down to **FM RADIO PRESETS** section.
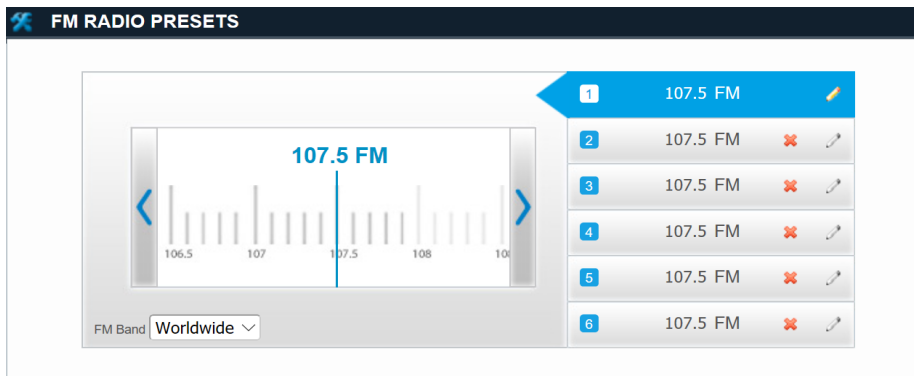
2. On **FM Band**:

   - If you are in Japan, select **Japan**.

   - Otherwise, select **Worldwide**.

3. On the preset station you want to edit, click [pencil icon].

4. Enter the desired FM station's frequency and press **Enter**.

> You can also use the left and right blue arrows on the frequency scale to update the preset frequency.

5. To delete a preset station, click [X icon].

> Preset radio station 1 cannot be deleted.

8.3 CONFIGURING YOUR SMARTH THROUGH THE CONFIGURATION VOICE MENU

You can configure your SMART**H** using the configuration voice menu in combination with either unit buttons or using VOX.

To configure your SMARTH through the Configuration Voice Menu:

1. Confirm your unit is in Standby (LED flashes slowly).

> In the next step, make sure you release the buttons after you hear the second beep, otherwise unit configuration will be reset.

2. Press [icon] and [icon] for 2 seconds.

3. When the voice-assisted menu reaches your required option ("Language", "A2DP Audio Priority", "Spoken Status Announcements", "Click-to-Link", "AGC", "RDS", "VOX Sensitivity", "VOX", "Parallel Audio Streaming", "VOX Operation Mode"), tap [icon] or use VOX to select.

8.4 USING PARALLEL AUDIO STREAMING

With parallel audio streaming, you can hear GPS instructions during a mobile or Bluetooth intercom call, or while listening to other audio sources, such as music or FM radio.

> Limitations may apply when using certain iOS devices.

Your SMART**H** sets the various audio sources to either foreground (volume remains the same) or background (volume reduced) as described in the following table:

Mobile Phone 1/2	GPS	Intercom 1	Intercom 2	Music	FM Radio
Foreground	Foreground				
Foreground[1]		Foreground[1]			
	Foreground	Foreground			
	Foreground			Background	
	Foreground				Background
		Foreground		Background	
		Foreground			Background
		Foreground[2,3]	Foreground[2,3]		Background
				Foreground [4]	
					Foreground [5]

[1]If you add an intercom call to a mobile phone call creating a conference call, the volume for both audio sources is the same.

[2]If you make two intercom calls simultaneously creating an intercom conference call, the volume for both audio sources is the same.

[3]If you make two intercom calls simultaneously creating an intercom conference call, you cannot hear the mobile phone or GPS.

[4]If you play music only, the music volume is not reduced.

[5]If you play the FM radio only, the FM radio volume is not reduced.

> In some cases, parallel audio streaming may not work properly due connected device limitations (music player or GPS navigator). For more information, see FAQ on page 46.

> Cardo recommends that during a 3-way or 4-way Bluetooth intercom conference call, the rider who is connected to only one intercom call listens for mobile phone and GPS announcements.

> You cannot use music sharing for voice audio with riders during parallel audio streaming.

> Music can be streamed in the background during an active DMC intercom call.

To configure parallel audio streaming:

- SmartSet app - see Configuring Your SMARTH Basic Settings through the SmartSet App on page 36.
- Cardo Community - see Configuring Your SMARTH through Cardo Community on page 41.

8.5 AUDIO SOURCE PRIORITIES

If Parallel Audio Streaming is disabled, SMART**H** manages the audio sources you hear through the speakers according to the following audio source priorities.

Priority	Audio Source
Higher Priority	Mobile phone, GPS device instructions[1]
	Intercom (Click-to-Link/DMC and Bluetooth modes) or Music[2]
↑	Music or Intercom (Click-to-Link/DMC and Bluetooth modes)[3]
	FM Radio
Lower Priority	

[1]Phone calls and GPS temporarily mute DMC intercom, but group members remain part of the DMC intercom group.

[2]When audio priority is set to Intercom, you cannot hear navigation app or SMS messages from your phone during an ongoing intercom call.

[3]When audio priority is set to A2DP (music), the intercom is disabled while listening to music (via A2DP). A rider calling you by intercom hears a sound indicating you are not available.

- Intercom modes all have the same priority, so ongoing intercom calls will not be interrupted by any other intercom call.
- Bluetooth intercom and Click-to-Link calls have the same priority, so Click-to-Link calls will not interrupt any Bluetooth intercom call in progress, and vice versa.

If you paired your unit to two mobile phones (see Setting the Default Mobile Phone on page 44), music will be shared from the mobile phone through which you last played music.

When sharing FM radio (see Sharing Music and Radio on page 29), either rider can change station and Intercom (Click-to-Link/DMC and Bluetooth modes).

8.6 SETTING THE DEFAULT MOBILE PHONE

If you paired your unit to two mobile phones, you must set one of them as the default phone for outgoing calls.

If you do not set a default phone, the phone that you first paired with your unit is automatically set as the default phone.

To set the default phone through the SmartSet app:

1. Open the SmartSet app and tap :

2. Tap .

3. Tap **PRIORITY** for the default mobile phone.
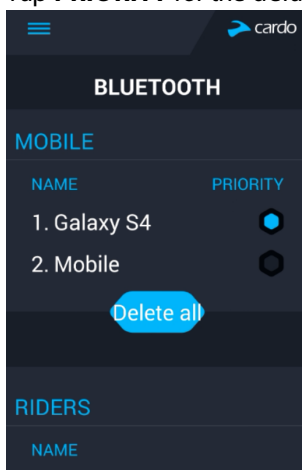
To set the default phone through the unit:

- During a mobile call, press ( ) for 5 seconds.

8.7 CHECKING BATTERY STATUS THROUGH THE SMARTSET APP

Battery Status on Your Mobile Phone

If you installed the SmartSet app on your mobile phone, the unit battery indicator appears in the SmartSet app bottom right-corner, as well as in the notification bar.
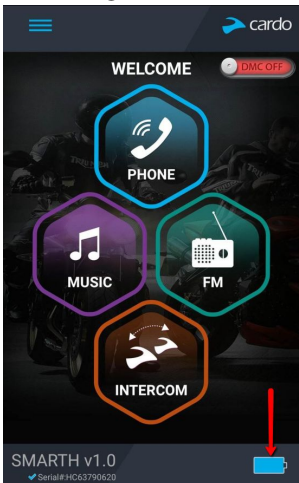
If your SMART**H** battery level reaches 20%, you hear a battery status voice announcement warning you that your battery is low.

9. TROUBLESHOOTING

9.1 SOFT RESET

If your SMART**H** stops responding, reset it by either:

- Turning it off and then on again (see Switching Your Unit On/Off on page 8).
- Using the supplied USB cable, connect your computer or wall charger to the SMART**H** USB port for 30 seconds.

9.2 RESET PAIRING

This option deletes all paired units and devices.

To reset pairing:

1. While in standby mode, press 🔊 for 5 seconds.

2. When the LED flashes red, press 🔊 and 🔆 for 2 seconds. The LED flashes purple 5 times slowly, confirming that pairing has been reset.

9.3 RESET TO FACTORY SETTINGS

This option deletes all paired units, devices and all configuration settings.

To perform a factory reset through the unit, do one of the following:

- To use the unit buttons:
  a. Check that your SMART**H** is in Standby (see SMARTH Modes and Events - LED Indications on page 49).
  b. Simultaneously press 🔊 + ➕ + ➖ for 5 seconds

- To use the SmartSet app:
  a. Check that your SMART**H** is in Standby (see SMARTH Modes and Events - LED Indications on page 49).
  b. Open the SmartSet app and tap ☰.
  c. Tap **Settings**.
  d. Tap **Reset to Factory**.
- To use the voice-assisted menu:
  a. Tap 🔊 and ➕ twice.
  b. When the voice-assisted menu reaches "Advanced Features Menu", tap 🔊 or use VOX.
  c. When the voice-assisted menu reaches "Reset to Factory Settings", tap 🔊 or use VOX.

9.4 FAQ

Additional answers to common problems can be found at www.cardosystems.com/faqs.

10. SUPPORT

For additional information:

💻 www.cardosystems.com

✉ **support@cardosystems.com**

☎ USA and Canada: 1-800-488-0363 / International: +49 89 450 36819

> To avoid potential problems and to receive our support and warranty coverage, we strongly recommend buying our products only from authorized Cardo dealers.
>
> Your favorite brick-and-mortar store is always your best bet. Unauthorized online resellers and online auction sites such as eBay are not among Cardo's authorized dealers, and purchasing our products from such sites will be at your own risk. Cardo strives to provide quality products and exceptional customer service. We select dealers who share that vision. Buying grey market items from unauthorized online dealers is counterproductive and also adversely affects unsuspecting online consumers who may be purchasing used, counterfeit or defective products or devices whose warranties are void. Protect your investment by purchasing genuine Cardo and scala rider® products only from authorized dealers.

11. GLOSSARY

Term/Abbreviation	Description
A2DP	Advanced Audio Distribution Profile (for music). A protocol for playing music over Bluetooth.
AGC sensitivity	AGC (Automatic Gain Control) automatically adjusts speaker volume according to ambient noise and riding speed.
Click-to-Link	Spontaneous way to instantly initiate one-on-one intercom calls with another Cardo passenger/nearby rider, without being paired.
Device	Mobile phone, GPS or music player.
IC	Intercom.
Intercom-to-Phone	Automatically divert intercom calls to mobile calls.
Intercom Mode (DMC/Bluetooth)	DMC intercom and Bluetooth intercom.
Language	Voice announcements and voice-assisted menus language.
RDS	Radio Data System allows the radio to automatically retune to the strongest frequency available for the FM station you are listening to when the signal becomes too weak.
Unit	Cardo or non-Cardo Bluetooth Communication system.
VOX	Voice activation (by saying a word or phrase loudly) of certain features for hands-free operation.
VOX sensitivity	Adjusts your microphone sensitivity for voice activation while you are riding.

APPENDIX A. SMARTH MODES AND EVENTS - LED INDICATIONS

Your SMARTH operates in various modes. Each mode consists of a group of features currently available for your use. For example, when SMARTH plays music, it will be in music playing mode, enabling features related to playing music such as skipping to the next and previous tracks.

"Events" are considered to occur whenever you operate a feature and when SMARTH's responds. For example, turning on music is an "event".

SMART**H**'s current mode is indicated by the unit LEDs. You also hear voice announcements on your unit for mode changes and events.

The following table shows LED indications for modes and events according to the current battery state.

LED	Flashing	Battery State	Mode or Event
Blue	For 2 seconds	Normal	• Rider B connected • Set VOX to enabled
Blue	Fast (3 times)	Normal Low Battery Charging	• Power on
Blue	Fast (repeating fast)	Normal, Low Battery Charging	• Pairing intercom rider B
Blue	Slow (repeating every 3 seconds)	Normal	• Standby
Blue	Slow twice (repeating slowly every 3 seconds)	Normal	• Incoming/outgoing call (intercom or mobile) • Audio active (intercom, FM, A2DP, GPS, Feature/Settings menu)
Green	Fast three times (repeating every 1 second)	Normal or Low Battery	• Active DMC intercom call
Green	Fast (repeating)	Normal or Low Battery	• Pairing DMC intercom
Off	Off	Normal Low Battery	• Off
Orange	Slow twice (repeating slow, every 3 seconds)	Normal or Charging	• DMC intercom Incoming/outgoing call (intercom or mobile) • DMC intercom Audio active (intercom, FM, A2DP, GPS, Feature/Settings menu)
Orange	Fast (repeating slow)	Normal or Charging	• DMC intercom Active mobile call, voice via mobile • DMC intercom Standby
Orange	Fast (repeating fast)	Normal, Low Battery, or Charging	• DMC intercom Grouping
Purple	For 2 seconds	Normal Low Battery Charging	• Mobile pairing successful • Mobile connected
Purple	Slow (5 times)	Normal Low Battery	• Reset pairing
Purple/Red	Purple twice slowly and red on	Charging	• Incoming/outgoing call (intercom or mobile) • Audio active (intercom, FM, A2DP, GPS, Feature/Settings menu)
Purple/Red	Slow purple and red (repeating)	Charging	• Standby

LED	Flashing	Battery State	Mode or Event
Red	Slow twice (repeating slowly every 3 seconds)	Low Battery	• Incoming/outgoing call (intercom or mobile) • Audio active (intercom, FM, A2DP, GPS, Feature/Settings menu)
Red	For 2 seconds	Normal or Low Battery	• DMC intercom pairing failed
Red	Fast (repeating slow, every 3 seconds)	Low Battery	• Standby DMC intercom
Red	Fast (repeating slowly every 3 seconds)	Low Battery	• Standby
Red	Fast (repeating fast)	Normal Low Battery Charging	• Pairing intercom rider A
Red	Fast (3 times)	Normal Low Battery Charging	• Power off
Red	For 2 seconds	Normal Low Battery Charging	• Rider A connected • Set VOX to disabled
Red	Remains on	Charging	• Off
Red/Blue	Alternating fast	Normal Low Battery Charging	• Pairing Mobile 1
Red/Blue	Alternating slow	Normal Low Battery	• Pairing GPS 1
Red/Green	Alternating fast	Normal Low Battery Charging	• Pairing Mobile 2
Red/Green	Alternating slow	Normal, Low Battery	• Pairing GPS 2
Yellow	Fast (repeating)	Normal Low Battery Charging	• Incoming/outgoing Click-to-Link
Yellow	For 2 seconds	Normal Low Battery Charging	• Intercom call attempted without microphone or audio kit connected. • DMC intercom pairing successful

© 2017 Cardo Systems

The unit weighs 80 g (2.8 oz).