ModCom™1 Pro User Manual

Contents

Thank You

We appreciate your purchase of the Trident™ ModCom1-Pro Bluetooth® Headset. This rugged wireless Headset combines high-quality audio performance, environmental durability, and lightweight comfort without sacrificing stability during active use.
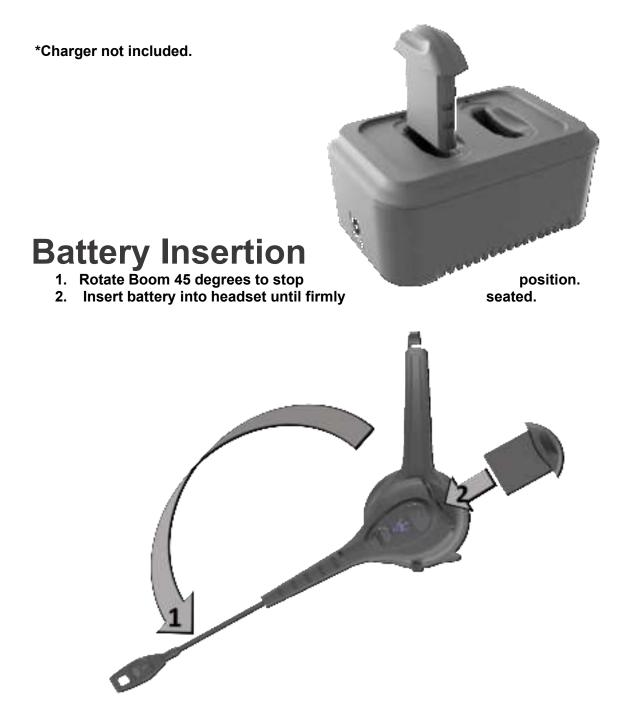
Please Read this Reference Manual

Please take the time to follow the instructions in this reference guide carefully. It will help you set up and operate your Headset properly and enjoy its advanced features. Please save this guide for future assistance.

Features

Charge the Battery*

1. Connect charging cable to Wall Mount USB adapter and 10 or 2-Bay Charger.
2. Insert Battery into the charger. Charge for 3 hours prior to use.

*Charger not included.

Battery Insertion

1. Rotate Boom 45 degrees to stop   position.
2. Insert battery into headset until firmly   seated.

Battery Extraction

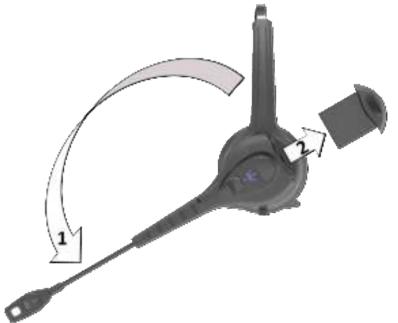1. Pivot Headset Module 45 degrees downward until it stops.
2. Remove Battery from Bluetooth Headset Module.

Connecting Headset to Device

To use the ModCom One Headset with a Bluetooth Device (or "Host"), such as a mobile computer or industrial tablet, you must first establish a wireless connection between the Headset and the intended Device. This process is called "Pairing".

Pairing

The Headset may be paired with Bluetooth devices in the following three ways:
1. Standard Bluetooth pairing where the headset is discovered by the Host.
2. Touch-to-Pair with devices supporting an NFC Connection.
3. Scan-to-Pair with devices supporting Bluetooth Mac Address Scanning.

Headset must be within close proximity of the host to complete pairing. To initiate pairing, Headset must be powered off. If the headset is on, turn off by pressing the Multi-Function Button (MFB) for 2.5 seconds. All three pairing methods require user to Initiate Standard Bluetooth Pairing

1. Initiate Standard Bluetooth pairing by pressing the Multi-Function Button for 5.5 seconds until you hear "Pairing" and the LED alternately flashes red and blue. Use the Host's Bluetooth search and pairing functionality (refer to the Host documentation if necessary) and select **"MC1-Pro"**. If necessary, enter four zeros (0000) for the passcode and accept connection.
2. For Touch-to-Pair, press the Multi-Function Button for 5.5 seconds until you hear "Pairing" and the LED alternately flashes red and blue **before** touching Headset NFC tag to NFC tag of Host. NFC Tag is located in Microphone Assembly.

3. For Scan-to-Pair, press the Multi-Function Button for 5.5 seconds until you hear "Pairing" and the LED alternately flashes red and blue **before** activating Host scanning function and scan Headset Bluetooth Mac Address Barcode Label.

Once successfully paired, you will hear "Pairing Successful" and the LED will flash blue, once every two seconds indicating the Headset and Host are connected. The Headset may be paired to a new Host using the above procedure. Note that this will undo the pairing to the current Host, as the Warehouse specific FW only stores one Mac Address.

Once the Headset and Host have been paired, the Headset and Host will automatically reconnect the next time they are both powered on and near each other.

Custom User Functions

Changing Language
Change Language by pressing Multi-Function Button (MFB) and Vol+ for 1 second. This function can only be activated in standby or connected mode. ModCom One supports the following languages: English, French, German, and Spanish.

Microphone Mute
During phone calls, the microphone can be muted by rotating the boom up.

End Call
To end a call, press the MFB for 1 second.

Voice Activation
To initiate the hosts Voice Recognition, double press the MFB.
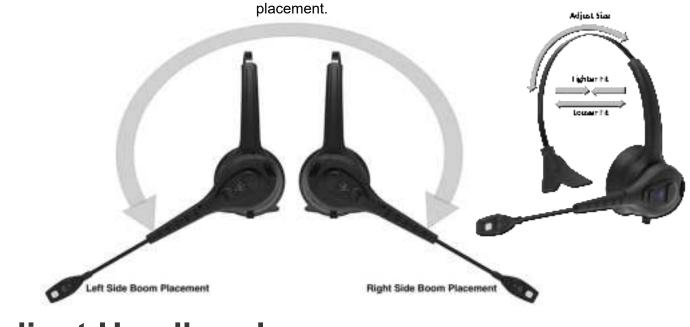
Understanding LED Lights and Tones

Primary Features	Headset Control	LED Light	Tones
Pairing	Powered Off, Press MFB for 5 Seconds	Blue and Red Alternate Flash	"Pairing, please wait"
Pairing Complete	Automatic	No LED Output	"Device Connected"
Pairing Failure	Automatic	No LED Output	"Pairing Incomplete"
Power On/Off	Press MFB for 2.5 Seconds	Blue/Red Flash 3 Times	"Power On", "Power Off"
Volume	Press Volume + or Volume - to Increase or Decrease Volume	No LED Output	< Increase Volume >Decrease Volume
Connected	Automatic	Blue Flash Once Every 2 Seconds	"Device Connected"
Microphone Mute	Rotate Boom Up	No LED Output	N/A
Change Language	Press MFB and Vol+ for 1 second	No LED Output	"English Selected"
Not Connected	Automatic	Blue Solid	"Lost Connection"
Link Lost	Automatic	No LED output	"Lost Connection"
Low Battery Warning	Automatic	Red Flash Twice Every 2 Seconds	"Battery Low"
Low Battery Shutdown	Automatic	Red Flash 3 Times	4 Descending
A/V Playback Features	**Headset Control**	**LED Light**	**Tones**
A/V Streaming	Automatic	Blue Flash Twice	N/A

		Every 2 Seconds	
Play or Pause	Press MFB for 0.5 Seconds	No LED Output	Short High
Track Forward	Press Volume Up for 1 Second	No LED Output	Short High
Track Backward	Press Volume Down for 1 Second	No LED Output	Short High
Phone Call Features	**Headset Control**	**LED Light**	**Tones**
Answer/End Call	Press MFB for 0.5/1 Second	No LED Output	One Short/Two Short
Call Ongoing	Automatic	Blue Flash Once Every 3 Seconds	N/A
Ignore 1st Call/2nd Call	Press MFB for 1 Second	No LED Output	Long Low
Answer Second Call/Hang up Ongoing Call	Double Press MFB	No LED Output	One Short
Answer Second Call/Hold Ongoing Call	Double Press MFB	No LED Output	Long Low
2nd Call Ongoing	Automatic	Flash Red On 1 Second, Off 1 Second	N/A
Transfer Audio Between Headset and Host	Triple Press MFB	No LED Output	N/A
Last Number Redial	Press Volume + and Volume – for 0.5 Seconds	No LED Output	Long Low
Voice Activation	Double Press MFB	No LED Output	One Short

Position the Boom

Do not rotate the boom beyond the stop point.
*Applies to Mono and Binaural Model. The Behind the Neck model has only left side boom placement.

Adjust Headband

The headband can be squeezed for a tighter or a looser fit to the head.
The stainless-steel head band will click as it is lengthened or shortened

into a comfortable position.
When adjusting the headband:
- Position the ear cushion in the center of the ear.
- Position the T-Bar above the ear, halfway between the top of the ear and the top of the head.

Headband Disassembly

1. **Loosen the Headband Set Screw Counterclockwise**
2. **Remove Bluetooth Headset Module from Headband Module**

Microphone Mute.

1. **Rotate Boom up for mute.**

Install Windscreen and Ear Cushion

Microphone Orientation

Talk Side

Speech Recognition Microphone

Talk Indicator

Noise Cancellation Side

NFC Tag

Noise Cancellation Microphone

Patents

US Patent: 9,813,799, D760,689, D76090, D755,122, and D749,042

Bluetooth The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Trident™ is under license. Other trademarks and trade names are those of their respective owners.

Operating Specifications

The ModCom One Bluetooth Headset operates in the Bluetooth Band of 2.402 ~ 2.480 GHz with an RF Output Power of <10dBm.

Cleaning and Maintenance

To maintain the ModCom One Headset we suggest the following guidelines:

- Do not expose the Headset to harsh chemicals or cleaning agents.
- The Battery must be fully inserted and locked into place for it to become IP67 Waterproof. Do NOT immerse the Headset in water beyond 3 feet (1 meter) for beyond 30 minutes per IP-67 Specifications.
- If the Headset becomes dirty, wipe it with a soft damp cloth. Do not use soap, cleaning fluids or chemicals.
- Keep dust, dirt and debris out of the Headset Battery Slot and the Battery Charger Slots.
- When handling the Headset Battery, keep the Battery Contacts free of dirt, grease, oil and other substances that can affect the Battery from making proper contact with the Headset or Charger.
- Battery contacts must be covered with protective sleeve to prevent short circuit and discharge after the Battery is removed from the headset.

Troubleshooting

Operation	Problem	Possible Solution
Operating	Headset will not Turn On.	Make sure Battery is fully seated in Headset.
		Make sure Battery is charged by placing Battery in Battery Charger and follow the Battery charging instructions.
		Backup Battery is below minimum operating voltage. Allow 1 minute for Main Battery to charge Backup Battery.
Pairing	Does not Pair.	Headset should be off when beginning pairing process.
		Make sure intended Host's Bluetooth is turned on.
		Make sure Headset is within 12 inches of intended Host.
		Make sure you select "MC1-Pro" on your Host's Bluetooth search menu.
	Headset appears to be connected but cannot communicate with intended Host.	Headset may be connected with different Host. 1. Make sure intended Bluetooth Device is within 12 inches of Headset. 2. Make sure all other non-intended Bluetooth Devices are 6 feet away from Headset. 3. Turn off Headset and start pairing process again.
Charging Battery	Battery does not seat properly in the Charging Slot.	Rotate Battery and re-insert into Charging Slot.
	No LEDs Light on Charger when Battery is inserted.	Check Power Cable connection to Charger. Battery may be faulty. Replace Battery.
NFC	NFC Does not Pair	For Touch-to-Pair, initiate Standard Bluetooth Paring **before** touching Headset NFC tag to NFC tag of Host. NFC Tag is located in Microphone Assembly.

Battery Safety Guidelines

- The area in which the Batteries are charged should be clear of debris and combustible materials or chemicals. Improper Battery use may result in a fire, explosion, or other hazard.
- To charge the Headset Battery, the Battery and Charger temperatures must be between 41°F – 95°F (5°C – 35°C).
- Do not use incompatible Batteries and/or Chargers. Use of an incompatible Battery or Charger may present a risk of fire, explosion, leakage, or other hazard. If you have any

- questions about the compatibility of a Battery or a Charger, contact your Distributor Customer Support.
- N'utilisez pas de batteries et / ou chargeurs incompatibles. L'utilisation d'une batterie ou d'un chargeur incompatible peut présenter un risque d'incendie, d'explosion, de fuite ou tout autre danger. Si vous avez des questions sur la compatibilité d'une batterie ou d'un chargeur, contactez le service client de votre distributeur.
- Do not disassemble, open, crush, bend, deform, puncture, or shred.
- Severe impact from dropping any Battery-Operated Device on a hard surface could cause the Battery to overheat.
- Do not short circuit a Battery or allow metallic or conductive objects to contact the Battery terminals. Use the supplied protective Battery Sleeve when Battery is removed from Headset.
- Do not modify or remanufacture, attempt to insert foreign objects into the Battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Do not leave or store the Battery in or near areas that might get very hot, such as in a parked vehicle, near a radiator or other heat source.
- Do not place Battery into a microwave oven, conventional oven, toaster oven, washer, dryer, dishwasher, or other mechanical devices.
- Battery usage by children should be supervised.
- Please follow local regulations to promptly dispose of used re-chargeable Batteries.
- Do not dispose of Batteries in fire.
- Seek medical advice immediately if a Battery has been swallowed.
- In the event of a Battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact is made, wash the affected area with large amounts of water and seek medical advice.
- If you suspect damage to your Headset or Battery, contact your Distributor Customer Support to arrange for inspection.

Warranty and Customer Support

- For the complete Trident Communication Technology, LLC. hardware product warranty statement, visit: http://www.tridentcomtech.com/warranty
- If you have problem using your equipment in North America, contact Trident Customer Support at _customer.support@tridentcomtech.com_

  Trident Communication Technology
  8 Faulkner Hill Road, Acton, MA 01720 USA

- If you have problem using your equipment in Europe, contact D3 Technical Support at _customer.support@tridentcomtech.com_

  D3 Technical Partners, LLC.
  Ruysdaelplein 3
  Naarden 1411RD Noord Holland Netherlands
- For the latest version of this User Manual visit: http://www.tridentcomtech.com/manuals

Safety and Regulatory Information

- **Warnings for use of Wireless Devices**. Please observe all warning notices with regard to the usage of wireless devices.
- **Avertissements pour l'utilisation des appareils sans fil**. Veuillez respecter tous les avertissements concernant l'utilisation des appareils sans fil.
- **Potentially Hazardous Atmospheres – Vehicles Use.** You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders) and any other area where you would normally be advised to **turn off your vehicle engine.**
- **Potentially Hazardous Atmospheres – Fixed Installations.** You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).
- Contains small parts which can be a choking hazard.
- Not suitable for children under age 3.
- This product contains magnets which can be harmful to pacemakers, or similar medical devices.
- To reduce the risk of fire or electrical shock, do not expose the product to rain or moisture.
- As with any electronic products, use care not to spill liquids into any part of the system. Liquids can cause a failure and/or a fire hazard.
- Do not place any naked flame sources, such as lighted candles, on or near the apparatus.
- Use caution when using your headset while operating a vehicle or engaging in any activity that requires your full attention. Check and follow local laws regarding mobile phone and headset use. Some jurisdictions impose specific limitations, such as single earpiece configuration, on the use of such products while driving.
- Soyez prudent lorsque vous utilisez votre casque lorsque vous conduisez un véhicule ou que vous livrez à une activité qui requiert toute votre attention. Vérifiez et suivez les lois locales concernant l'utilisation des téléphones portables et des écouteurs. Certaines juridictions imposent des limitations spécifiques, telles que la configuration d'un seul écouteur, à l'utilisation de ces produits pendant la conduite.
- Sounds that you rely on as reminders or warnings may sound different when using a headset. Be aware of how these sounds may vary in character so you can recognize them as needed.
- Les sons que vous utilisez comme rappels ou avertissements peuvent avoir un son différent lorsque vous utilisez un casque. Soyez conscient de la façon dont ces sons peuvent varier en caractère afin que vous puissiez les reconnaître au besoin.
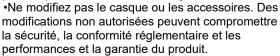- Do not leave a battery on prolonged charge when not in use.

CAUTION:

- Do not make modifications to the headset or accessories. Unauthorized alterations may compromise safety, regulatory compliance, and product performance and warranty.
- Ne modifiez pas le casque ou les accessoires. Des modifications non autorisées peuvent compromettre la sécurité, la conformité réglementaire et les performances et la garantie du produit.

- **Prevention of Hearing Loss**

To prevent possible hearing damage, do not listen at high volume levels for long periods.
- Use only with the supplied power supply meeting local regulatory requirements (ex. UL, CSA, VDE, CCC).
- Use caution when using a Headset while operating a motor vehicle or anywhere the inability to hear outside sounds may present a danger to you or others.
- Soyez prudent lorsque vous utilisez un casque lorsque vous conduisez un véhicule à moteur ou n'importe où l'incapacité d'entendre des sons extérieurs peut présenter un danger pour vous ou pour les autres.
- The ModCom One Headset does not require scheduled cleaning. Should cleaning be necessary, simply wipe the outside surfaces with a soft damp cloth.

Regulatory Information
All Trident Communication Technology, LLC.™ devices are designed to be compliant with rules and regulations in the locations they are sold and will be labeled as required. This regulatory information applies to Model number MC1BTMO-W, MC1BTMO-BTN-W, MC1BTMO-W-F.

International
This device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices.

Wireless Device Country Approvals
Regulatory markings, subject to certification, are applied to the device signifying the radio (s) is/are approved for use in the following countries: United States, Canada, and Europe. **Note**: Europe includes Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania,

Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CE NOTICE TO USERS

Trident Communication Technology, LLC.™ hereby declares that this product is in compliance with the essential requirements and other relevant provisions EU RED - DIRECTIVE 2014/53/EU & EU-LOW VOLTAGE DIRECTIVE 2014/35/EU and all other applicable EU directive requirements.
http://www.tridentcomtech.com/CE_Declaration

FCC NOTICE TO USERS

This device complies with FCC and Industry Canada RF radiation exposure limits set forth for general population. It must not be   co-located or be operating in conjunction with any other antenna or transmitter.

In the United States:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, this 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, you are 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 Headset Charger to an outlet on a different circuit than the one to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
Changes or modifications not expressly approved by Trident Communication Technology, LLC.™ could void the user's authority to operate this equipment.

In USA and Canada:

This device complies with part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
  1. This device may not cause harmful interference.
  2. This device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de

licence. L'exploitation est autorisée aux deux conditions suivantes:
  1. l'appareil ne doit pas produire de brouillage, et
  2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le functionnement.
This class B digital apparatus complies with CAN ICES-3 (B) / NMB-3 (B)

Waste Electrical and Electronic Equipment

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

FCC regulatory conformance：

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

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 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

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

The SAR limit of USA (FCC) is 1.6 W/kg for head averaged over one gram of tissue. Device types MC1BTMO-W (FCC ID: 2AEABMC1V3) has also been tested with 0mm against this SAR limit.

IC regulatory conformance
This device complies with CAN ICES-003 (B)/NMB-003(B).
This device complies with Industry Canada licence-exempt RSS standard(s). 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.
Cet appareil est conforme à la norme CAN ICES-003 (B)/NMB-003 (B).
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The SAR limit of Canada (ICES) is 1.6 W/kg for head averaged over one gram of tissue. Device types MC1BTMO-W (IC: 12773A-MC1V3) has also been tested with 0mm against this SAR limit.

EU regulatory conformance： :

RF exposure information: The EIRP power of the device at maximal case is below the exempt condition, 20mW specified in EN62479: 2010. RF exposure assessment has been performed to prove that this unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation(1999/519/EC).

To prevent possible hearing damage, do not listen at high volume levels for long periods.

CE DOC
Hereby,Trident Communication Technology, LLC declares that the radio equipment type MC1BTMO-W is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
http://www.tridentcomtech.com/CE_Declaration

Manufacturer information:
Company name:Trident Communication Technology, LLC

Address：8 Faulkner Hill Road, Acton, MA 01720, USA

Operation frequency(Max power)
Bluetooth: 2402-2480 (9.8dBm)

Operation temperature: -20-60℃