

# INVISIO M80

Wireless Push-To-Talk

---

USER MANUAL

# Contents

---

<b>Disclaimer</b>	<b>4</b>
<hr/>	
<b>Overview</b>	<b>6</b>
<hr/>	
<b>Attachment</b>	<b>7</b>
<hr/>	
<b>PTT Assignment</b>	<b>8</b>
Examples .....	9
<hr/>	
<b>Pairing</b>	<b>10</b>
<hr/>	
<b>Storage and Maintenance</b>	<b>11</b>

---

# Disclaimer

The information in this INVISIO User Manual (the “User Manual”) is subject to change without notice and INVISIO is under no obligation to provide the user with updates, amendments or modifications.

This User Manual describes the use of the INVISIO System (the “Product”) which includes headset, control unit, cables and accessories.

EXCEPT WHERE PROHIBITED BY LAW, THE WARRANTY EXPRESSLY GRANTED AS A PART OF INVISIO’S GENERAL TERMS AND CONDITIONS FOR DELIVERY, AS TO PERFORMANCE, RESULT, OR OTHERWISE IS THE USER’S EXCLUSIVE WARRANTY REMEDY.

INVISIO EXPRESSLY DISCLAIMS, AND USER EXPRESSLY WAIVES, ALL OTHER WARRANTIES, DUTIES, AND OBLIGATIONS IMPLIED IN LAW, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, OR THOSE ARISING FROM A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE, EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT. THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.

By assembling and/or using the Product, the user agrees that he or she has read and understood the entire User Manual, including, without limitation, all instructions and warnings contained herein, prior to using the Product. The user also agrees that he or she will ensure that any additional or subsequent user of the Product will read, understand, and comply with the User Manual, including, without limitation, all instructions and warnings contained therein, prior to allowing that person to use the Product. The Product is designed exclusively for use by trained, professional personnel (“Authorized Personnel”) performing their duties in their official capacity. Under no circumstances should the Product be used in any manner other than that described in this User Manual.

Opening or otherwise tampering with one or more of the control units, headsets, or accessories voids any warranty. Only original, manufacturer-approved accessories and batteries may be used with the Product. The user must activate, adjust, clean, and maintain the Product in accordance with this User Manual. Failure to activate, adjust, clean, and maintain the Product in accordance with this User Manual voids any warranty. In consideration of receiving the Product, the user hereby agrees to the fullest extent permitted by law, as follows:

THE USER WAIVES ANY AND ALL CLAIMS AGAINST INVISIO AND ALL RELATED PARTIES RESULTING FROM USE OF THE USER MANUAL, THE PRODUCT, AND/OR ANY OF ITS COMPONENTS.

IN NO EVENT WILL INVISIO OR ITS RELATED PARTIES BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE USER MANUAL OR THE PRODUCT.

The user releases INVISIO and all related parties from any and all liability for any loss, damage, injury, or expense that the user may suffer, as a result of the use of the User Manual or Product, due to any cause whatsoever, including, without limitation: strict liability, misrepresentation, negligence, gross negligence, or breach of contract on the part of INVISIO and all related parties in the design or manufacture of the Product and any of its components.

In the event of the user’s death or incapacity, all provisions contained herein shall be effective and binding upon the user’s heirs, next of kin, executors, administrators, beneficiaries, assigns and representatives (the “User’s Representative”).

In any event, INVISIO’s liability to any user or User’s Representative for any reason and upon any cause of action or any claim in contract, tort, or otherwise with respect to the User Manual or the Product shall be limited to the price paid to INVISIO for the unit that caused any alleged damage. No cause of action which accrued more than one (1) year prior to the filing of a suit alleging such cause of action may be asserted against INVISIO or any party which designed or manufactured any component of the Product. All parties waive to the fullest extent permitted by law any right to a trial by jury as to any claims relating or referring in any way to the Product including, without limitation, any claims based in strict liability, negligence, gross negligence, breach of warranty, and any other claim based in law or equity.

## Overview

### PTT1

Keys first radio connected to control unit. Normally COM 1.



### Rifle Mounting Strap

Slot for a strap to connect to rifle or other equipment.

### PTT2

Keys second radio connected to control unit. Normally COM 2.

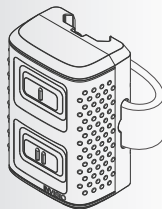
### Picatinny Rail Bracket

Slot for attaching remote PTT onto a picatinny rail.

## The INVISIO M80 Wireless PTT

Enables remote PTT of the V-Series control unit. It has a Picatinny Rail attachment, as well as a Mounting Strap attachment. The M80 uses a secure encryption and up to six M80 remote PTTs can be paired to a single V-Series Control Unit. The M80 is 20 meters submersible. Battery lifetime is up to 10 years, after which the M80 must be replaced.

## Attachment

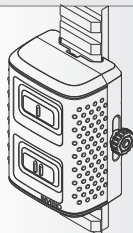


### M80 Remote PTT with Mounting Strap

1. Insert mounting strap through the remote PTT.
2. Position PTT where required and secure strap.

### M80 Remote PTT with Picatinny Rail

1. Slide the remote PTT onto the weapon's Picatinny rail.
2. Insert screw and tighten nut securely.



## Caution

Ensure the screw and nut are tighten securely to avoid the remote PTT coming loose.

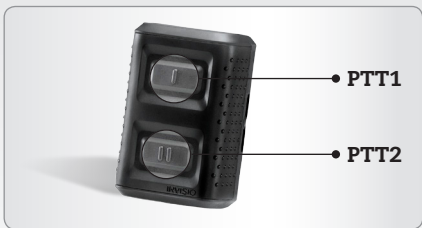
# PTT Assignment

## PTT Assignment

PTT1 and PTT2 are assigned as follows:

- The first two radios connected, if two or more radios are connected.
- The first two radio nets, if only one radio is connected.
- PTT buttons are not assigned to intercoms.

The first connected radio is based on COM1 being first and COM3 being last.



### Note

PTT button assignment is dependent on the individual cable settings. Please consult INVISIO for more information.

# Examples

## PTT Assignment - Examples

### Single Net Radio Only

- **COM1:** Single Net Radio
- **COM2:** -
- **COM3:** -

#### PTT Assignment:

- **PTT1:** COM1/Net1
- **PTT2:** Nothing

### Dual Net Radio Only

- **COM1:** Dual Net Radio
- **COM2:** -
- **COM3:** -

#### PTT Assignment:

- **PTT1:** COM1/Net1
- **PTT2:** COM1/Net2

### Single Net Radio + Intercom

- **COM1:** Single Net Radio
- **COM2:** Intercom
- **COM3:** -

#### PTT Assignment:

- **PTT1:** COM1/Net1
- **PTT2:** Nothing

### Dual + Single Net Radio

- **COM1:** Dual Net Radio
- **COM2:** Single Net Radio
- **COM3:** -

#### PTT Assignment:

- **PTT1:** COM1/Net1
- **PTT2:** COM2

## Pairing

### Pair Remote PTT

Any M80 remote can be paired and re-paired to a control unit.

1. Turn control unit Off (turn radio off or disconnect power).
2. Press and hold control unit Mode Button.
3. Turn control unit On (turn radio on or attached power supply).
4. Release control unit Mode Button.
5. Within 12 seconds a series of beep tones is heard. Both devices are now ready for pairing.
6. Press and release M80 Remote PTT buttons in quick succession:

PTT2

PTT1

PTT2

PTT1

7. Successful pairing is followed by three fast beeps.
8. Unsuccessful pairing is indicated by the beeps stopping. If this happens, please go to step 1 again.

### Pair Multiple Remote PTTs

Pair up to six remote PTTs to a single control unit:

- Pairing a seventh remote PTT will delete the first one paired (first in - first out).
- Remove pairing to all other remotes by pairing the same remote twice in a row.

### Caution

- Pairing multiple units simultaneously may result in inadvertently pairing the incorrect units.
- Control unit cannot be operated during the pairing sequence.

## Storage and Maintenance



### Protected from Force

To avoid damaging the system, store in a protected area without excess weight.



### Dry and Ventilated

Store the system in a dry and ventilated area to avoid moisture build-up in connectors.



### Clean in Fresh Water

If system becomes dirty or exposed to salt water, rinse in fresh water.

[www.invisio.com](http://www.invisio.com)

INVISIO®