INVISIO R30

Wireless Remote PTT

USER MANUAL

Contents

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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.

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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:
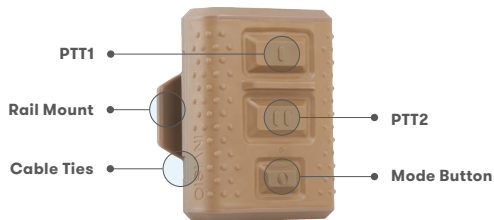
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PTT1

Rail Mount

Cable Ties

PTT2

Mode Button

R30 remote PTT with rail mount
1. attach the remote PTT onto the weapon's rail mount.

R30 remote PTT with cable ties
1. Remove the rail mount holder by unscrewing it.
2. Insert mounting strap through the remote PTT.
3. Position PTT where required and secure strap.

INVISIO R30
The INVISIO R30 wireless PTT enables remote keying of the Gen II V-Series control units. It mirrors the key combos and modes of the control units and comes with rail mount, as well as cable ties. It uses the Bluetooth Low Energy (BLE) protocol for communication and up to seven R30's can be paired to a single control unit. The INVISIO R30 is submersible to 2 meters and has a battery lifetime of up to 2 years.

PTT Assignment

Single radio
PTT buttons are assigned according to cable settings.

Multiple net radios
PTT buttons are assigned according to cable settings.

ICS

Intercom
Intercoms are supported by use of appropriate intercom cables for the control unit. PTT buttons are assigned according to cable settings.

Note
PTT button assignment is dependent on the individual cable settings and the amount of connected devices to the control unit.
Please consult your radio datasheet and control unit user guide for more information or consult your INVISIO representative.

COM Port	Radio Configuration	PTT Assignment
Example 1		
COM1	Single net radio	PTT1
COM2	-	-
COM3	-	-
Example 2		
COM1	Single net radio	PTT1
COM2	Single net radio	PTT2
COM3	-	-
Example 3		
COM1	Dual net radio Net1 Dual net radio Net2	PTT1 PTT2
COM2	-	-
COM3	-	-
Example 4		
COM1	Dual net radio Net1 Dual net radio Net2	PTT1 -
COM2	Single net radio	PTT2
COM3	-	-
Example 5		
COM1	Single net radio	PTT1
COM2	Intercom	PTT2
COM3	-	-

Pairing of remote PTT

1. Place the R30 in near proximity to the control unit.
2. Turn the control unit off by disconnecting the radio cables or power supply device.
3. Connect the headset and put it on.
4. Press and hold control unit PTT1.
5. Turn the control unit on.
6. Release control unit PTT1.
7. You will receive a voice prompt, "PTT pairing mode initiated". A 60 second pairing window now starts.
8. Turn the R30 remote on by making a short button push.
9. After 3 seconds the R30 is ready to pair. Now, make four short PTT1 button pushes on the R30.
10. You will receive a voice prompt – either: "PTT Pairing Successful" or "PTT Pairing Failed".
11. Push PTT1 on the control unit to exit pairing.

Repeat steps to pair another R30 or in case the pairing failed.

• To cancel pairing mode - press PTT1 on the control unit.
• To remove all pairing from the control unit: Press and hold the mode button, short press PTT1, PTT2, PTT1, PTT2 and then release mode button.

Caution
• Pairing multiple control systems simultaneously may result in an incorrect R30 being paired to the control unit.
• The control unit cannot be operated during the pairing sequence.

Extended pairing

Extended pairing allows two wireless, remote PTTs to work togehter (any combination of the R30 Single Button and the R30).

1. Place the remote PPT in near proximity to the control unit.
2. Turn the control unit off by disconnecting the radio cables or power supply device.
3. Connect the headset and put it on.
4. Press and hold control unit PTT1.
5. Turn the control unit on.
6. Release control unit PTT1.
7. You will receive a voice prompt, "PTT pairing mode initiated". A 60 second pairing window now starts.
8. Turn the R30 remote on by making a short button push.
9. After 3 seconds the R30 is ready to pair. Now, make four short PTT1 button pushes on the R30 to enter pairing mode.
10. You will receive a voice prompt - either: "PTT pairing successful" or "PTT pairing failed".
11. If successfully paired, a 60 second extended pairing window starts. A new R30 remote can now be paired as an extension to the previously paired remote. Please repeat steps 8 through 9.
12. You will receive a voice prompt - either "Extended PTT pairing successful" or "extended PTT pairing failed"

Note
To cancel pairing or extended pairing mode press PTT1 on the control unit.
A maximum of 7 wireless, remote PTTs can be paired.

Extended pairing

Extended pairing allows two R30's to work together for a total of four designated PTT buttons. These can operate PTT1 through to PTT4 on the control unit.

COM Port	Radio Configuration	PTT Assignment
Example 1		
COM1	Single net radio	PTT1
COM2	-	-
COM3	-	-
Example 2		
COM1	Single net radio	PTT1
COM2	Single net radio	PTT2
COM3	Dual net radio Net1 Dual net radio Net2	PTT3 PTT4
Example 3		
COM1	Dual Net Radio Net1 Dual Net Radio Net2	PTT1 PTT2
COM2	-	-
COM3	Single net radio	PTT3
Example 4		
COM1	Dual net radio Net1 Dual net radio Net2	PTT1 PTT2
COM2	Single net radio	PTT3
COM3	Single net radio	PTT4
Example 5		
COM1	Single net radio	PTT1
COM2	Intercom	PTT2
COM3	Dual net radio Net1 Dual net radio Net2	PTT3 PTT4

Not sure of pairing status

If in doubt, please remove all pairing from the control unit:
1. Press and hold the mode button, short press PTT1, PTT2, PTT1, PTT2 and then release the mode button.

Perform the desired pairing according to the section "Pairing".

Disable/enable R30
The wireless PTT can be disabled (e.g. for security reasons) and enabled again via a key combination

Key combo
Use this key combo on the control unit to disable or enable R30 wireless operation:
1. Press and hold: Mode button
2. Short press: PTT1
3. Long press: PTT1
4. Release: All buttons

Voice prompt
You will receive a voice prompt - either:
Wireless PTT disabled
or
Wireless PTT enabled

R30 wireless operation
To disable R30:
No action needed. The R30 is automatically disabled 3 min. after the "Wireless PTT disabled"-voice prompt.

To enable R30:
Press any R30 button after the "Wireless PTT enabled"-voice prompt.

Automatic power saving mode
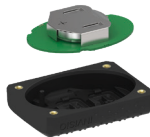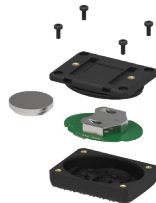Power saving mode occurs:
1. After 8 hours with no button presses.
2. 3 minutes after it has lost connection to the control unit.

Press any R30 button to power it on again. After a few seconds the R30 is connected to the control unit.

Changing battery
Battery change must be done in a dry and clean environment:

1. Remove backplate screws.
2. Separate backplate and housing.
3. Carefully remove the circuit board.
4. Change the battery. Please ensure correct battery orientation.

5. Put circuit board back in place. Match the hole in the circuit board with the small guidance pin in the housing.
6. Screw the backplate on again.

Caution
INVISIO recommends that the battery should be changed in a clean and ESD safe environment. When attaching the backplate, make sure that the screws are properly tightened.

Protect from force
To avoid damaging the R30, store in a protected area without excess weight.

Dry and ventilated
Store the R30 in a dry and ventilated area.

Clean in fresh water
If the R30 becomes dirty or exposed to salt water, rinse in fresh water.

PTT
Push-to-talk is used when transmitting during a 2-way radio communication. Pressing the PTT button enables transmission. Releasing enables monitoring.

PTT Mode
PTT Mode allows communication in both directions, but not simultaneously. When receiving, the user must wait for the signal to end, before begin transmitting.

ESD safe environment
An ESD safe environment is an environment where there is no risk of Electrostatic discharge (ESD) - a sudden flow of electricity between electrically charged objects caused by contact, an electrical short, or dielectric breakdown.

CE UK CA	This appliance complies with European and UK Directives 2014/35/EU, 2014/30/EU, 2011/65/EU (+ 2015/863/EU).
❄	This device is approved by Bluetooth SIG.
FC	FCC-ID: 2AUGTASM17582 INVISIO Communications AS has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment. INVISIO Communications AS n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur. This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. 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. This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

	Cet appareil est conforme aux limites d'exposition aux rayonnements de l'ISDE pour un environnement non contrôlé. L'antenne doit être installée de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur. 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.
IC	This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de classe B est conforme à la norme canadienne NMB-003. IC: 25405-ASM17582
△	This device complies with RCM rules.

The WEEE symbol indicates that this product may not be treated as household waste. Instead it must be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Disposal must be carried out in accordance with local environmental regulations for waste disposal. For more detailed information about treatment, recovery and recycling of this product, please contact your local city office, your household waste disposal service or the seller from whom you purchased the product.

Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.

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