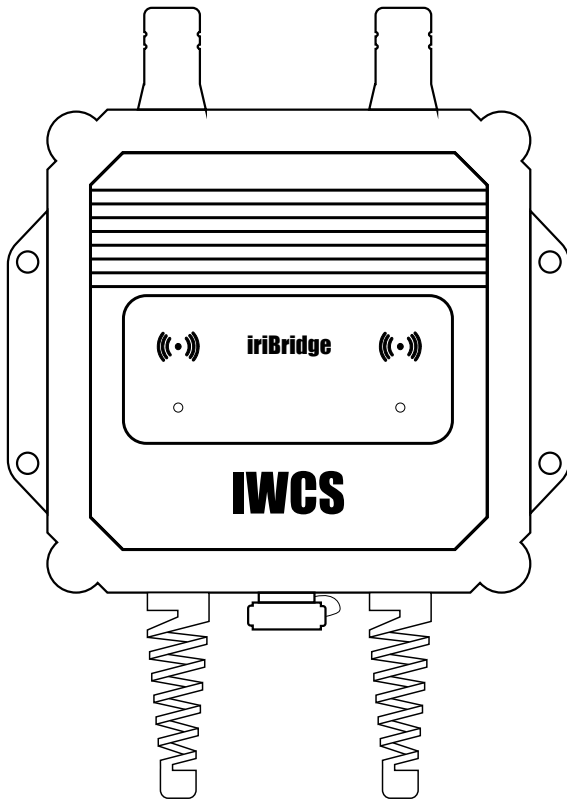


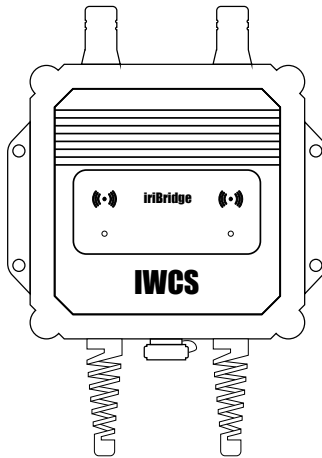
User manual



iriBridge & iriBridge-R

CONGRATULATIONS ON YOUR NEW PRODUCT FROM
IRIDIUM WATERPROOF COMMUNICATION SYSTEMS

iriBridge & iriBridge-R



*IWCS HOPE YOU WILL ENJOY THE BENEFITS OF TROUBLE FREE
HIGH QUALITY INTERCOM. PLEASE READ THESE
INSTRUCTIONS CAREFULLY BEFORE FIRST USE.
IF INSTALLED, OPERATED AND MAINTAINED
ACCORDING TO THIS MANUAL THE iriBridge WILL BE A
RELIABLE PARTNER FOR MANY YEARS TO COME.*

**THOMAS B SVENNINGSSEN
CO-FOUNDER OF IWCS**

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4 Introduction

1.1 Disclaimer

Any responsibility or liability for loss or damage in connection with the use of this product and the accompanying documentation is disclaimed by IWCS.

The information in this manual is provided for information purposes only, is subject to change without notice and may contain errors or inaccuracies.

Manuals issued by IWCS are periodically revised and updated.

Anyone relying on this information should acquire the most current version e.g. upon request at info@iwcs.eu

IWCS is not responsible for the content or accuracy of any translations or reproductions, in the whole or in part, of this manual from any other source.

1.2 Copyright

2025 Iridium Waterproof Communication Systems ApS. All right reserved.
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1.3 Trademark

iriBridge is a Trademark by Iridium Waterproof Communication Systems ApS.

| Revision | Release date | Release note |
|----------|--------------|------------------------------|
| 1.1 | 19-03-2024 | General Revisit |
| 2.0 | 16-01-2025 | General Revisit / New Design |



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1.4 Safety warning

The following general safety precautions must be observed during all phases of operation, service and repair of this equipment. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the equipment. IWCS assumes no liability for the customer's failure to comply with these requirements.

- **EMC / RF EXPOSURE**

IriBridge is CE certified as stated in the Declaration of Conformity.



- **FIRE**

In case of fire, harmful gases and fumes may occur.
One should immediately leave the area and seek help.
In case of suspected smoke in the lungs, a doctor should be consulted



- **POWER LOSS**

Power interruptions limited to IriBridge will not affect other users communication. A general power outage will turn off the entire intercom system. IWCS is not responsible for any power outages or consequences thereof, of any kind.



- **WARRANTY LIMITATIONS**

IMPORTANT - This unit is a sealed waterproof unit (classified IP67). To create and maintain its waterproof integrity it has been assembled in a controlled environment using special equipment. This unit is NOT a user serviceable unit, and under no circumstances should the unit be opened except by authorized personnel. Unauthorized opening of the unit will invalidate the warranty.



- **DISPOSAL**

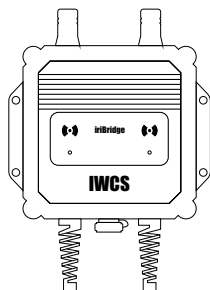
When disposing of IriBridge and related equipment, it must happen in accordance with applicable national law.



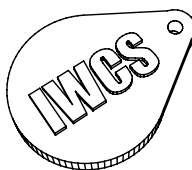
6 Unboxing

2.1 In The Box

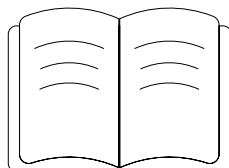
1 x iriBridge



1 x Magnet



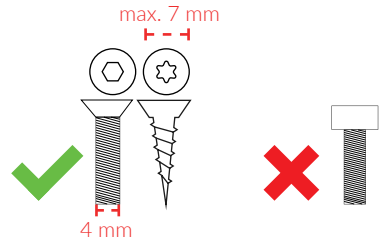
1 x User Manual



3.1 Tools

Before installation please prepare the following tools:

- Tape
- 4,5 or 3,3 mm drill bits
- Drill
- Screw heads may not exceed 7 mm



3.2 Screws and screw holes

When mounting the IriBridge, it is essential to consider the material and the appropriate drill bit size. Please note the following guidelines:

If you are using wood screws, you will need:

- 4x 4 mm screws.
- Drill 3.2 mm holes.

If you are using machine screws, you will need:

- 4x 4 mm screws.
- 4x locking bolts.
- 4x washers.
- Drill 4.5 mm holes.

3.3 Installation

Find a flat surface for mounting your iriBridge. Make sure that the antennas are not positioned close to reflecting metal surfaces (e.g. aluminum, steel, carbon fiber).

Drill 4 x holes (4,5 mm or 3,2 mm depending on type of screw). Mount the selected screws.

If mounted in a very bumpy/shaky location, mount iriBridge on shock mounts (available from IWCS or your local dealer).

Seal the holes with non-toxic industrial silicone.

3.1 Main Description

Dual Digital Accesspoint:

iriBridge is the digital Audio link between two wireless headsets, like iriComm headsets or 3rd party headsets/earpieces.

3.2 Setting Up

iriBridge / iriBridge-R:

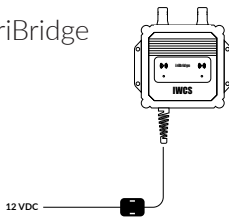
Connect the power cables to a suitable 12 VDC outlet. iriBridge turns on automatically and after a few seconds both indicator LEDs will be flashing green.

iriBridge-R only:

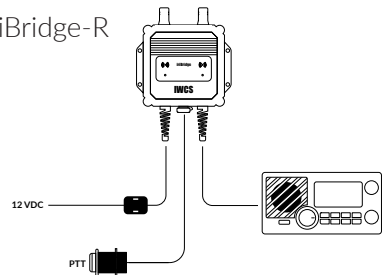
Connect the radio cable to the radio. The connector type depends on the ordered iriBridge. Connect the PTT cable.

3.3 Wiring

iriBridge



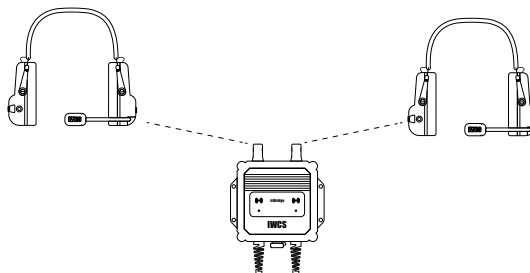
iriBridge-R



3.4 Pairings

Pairing (of two headsets):

Before you can use your iriBridge, you must setup pairing with two suitable Bluetooth headsets - one at a time. Preferably, the headset(s) should allow local volume control as iriBridge does not perform any volume control.



Pairing 1:

1. Put your headset into Bluetooth pairing (by following the instructions for the chosen headset).
2. Place the blue magnet in front of the (*) mark for channel 1. The LED indicator will change from a flashing green to a steady blue light. Remove the magnet as soon as the indicator LED changes to green. The LED indicator will now be fast-flashing blue indicating that iriBridge is in pairing mode.
3. Wait for the headset and iriBridge to find each other and connect. This can take anywhere from a few seconds to a about a minute.

Pairing 2:

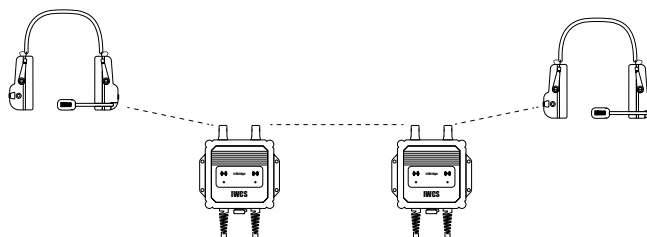
Repeat the same procedure as indicated above for channel 2.

Your two headset devices will now both be paired to iriBridge and bi-directional audio will be passed between the two headsets. Adjust volume on the individual headset as required.



After use, simply turn off the power to iriBridge and turn off both headsets. Next time you turn on iriBridge and the headsets, they will automatically reconnect. No additional pairing procedures are required.

Advanced Set-up:

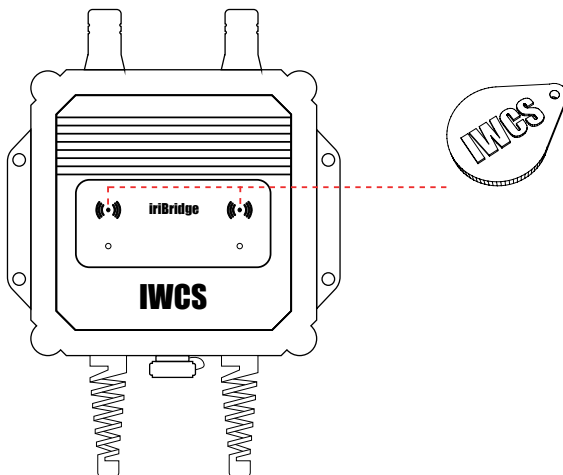
iriBridge also has the feature of acting as a wireless link between e.g. two vessels each equipped with an iriBridge. In this case, channel 2 on each iriBridge is used for connecting to the other iriBridge.



Pairing with another iriBridge:

1. Place the blue magnet in front of the  mark for channel 2 on the first iriBridge. The LED indicator will change from a flashing green to a steady blue light. Remove the magnet as soon as the indicator LED changes to green. The LED indicator will now be fast-flashing blue indicating that iriBridge is in pairing mode.
2. On the second iriBridge, place the blue magnet in front of the  mark for channel 2. The LED indicator will change from a flashing green to a steady blue light. Wait for the LED to change from steady blue to steady green and then back to steady blue again. Remove the magnet as soon as the indicator LED changes to blue. The LED indicator will now be fast-flashing blue indicating that iriBridge is in pairing mode.
3. Wait for the two iriBridge units to find each other and connect. This can take anywhere from a few seconds to a about a minute.

For pairing of a headset to channel 1 on each iriBridge, follow the instructions under "PAIRING (of two headsets).



Indicates Power ON



Place and hold the magnet until steady blue light turns green - remove immediately



Indicates that Channel 1 is in pairing mode



Connection established



FOLLOW THE SAME STEPS ON CHANNEL 2

12 Service and Maintenance

4.1 Troubleshoot

| Problem | Cause | Action |
|----------------------------|--|---|
| No light in LED Indicators | Power cable not plugged in, Cable defective, iriBridge is defect | Replace iriBridge |
| RED light indication | Other failure | Restart the system |
| No Audio | Paired device too far away, iriBridge defect | Move paired device closer, Replace iriBridge |

For other troubles - contact your local dealer support.

4.2 Technical Specifications

| iriBridge | iriBridge | iriBridge R |
|-------------------|---------------|---------------------|
| Weight | 600 g | 800 g |
| Wireless | 2,4 GHz | 2,4 GHz |
| Waterproof | IP67 | IP67 |
| Temperature range | -30 to +60 °C | -30 to +60 °C |
| Power | 12 VDC | 12 VDC |
| Antenna connector | SMA | SMA |
| Wireless range | >100 m LOS | >100 m LOS |
| Part number | IR-20-1061-01 | IR-20-1060-01-xxxxx |

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manufactured by

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