Manuals+ — User Manuals Simplified.

IWCS IR-20-1060-01 iriBridge 2 Channel Intercom Unit User Manual

Contents

IWCS IR-20-1060-01 Ironbridge 2 Channel Intercom Unit

INTRODUCTION

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.

COPYRIGHT

TRADEMARK ACKNOWLEDGEMENTS
Ironbridge is a Trademark by Iridium Waterproof Communication Systems ApS

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 warning elsewhere in this manual violates safety standards of design, manufac-ture and intended use of the equipment. IWCS assumes no liability for the customer's failure to comply with these requirements.

EMC / RF EXPOSURE
Ironbridge is CE certified as stated in the Declaration of Conformity which is accessible on request.

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
In the event of a power outage, iriBridge will turn off and will automatically restart when power is restored. 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 meet the IP classification and to ensure corrosion resistance when used in a vet and/or salty environment, the end user must apply an environmentally applicable silicone sealant completely covering the exposed metal base of the two antenna connectors after installing either antennas or an optional antenna cable for remote antenna placement.
To create and maintain its waterproof integrity, the unit has been assembled in a con-trolled 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.

INSTALLATION AND SERVICE
Installation and general service must be done by skilled service personnel only.

DISPOSAL
When disposing of iriBridge and related equipment, it must happen in accordance with applicable national law or be returned to IWCS for proper recycling. There are no batte-ries in iriBridge.

INSTALLATION

UNBOXING
The following items are included in the delivery of your new iriBridge from IWCS

- Ironbridge
- 2 Antennas
- Magnet
- User manual

TOOLS
The tools mentioned below are needed for installation
4,5 mm drill for machine screws or 3,2 mm drill for self tapping screws

- Power drill
- Screwdriver and spanner (depending on type of screw)
- 4 x M4 machine screws, 4 x 4,0 mm washer, 4 x M4 nuts in stainless steel or
- 4 x M4 self tapping screws

INSTALLATION
MOUNTING IRONBRIDGE
Find a flat surface for mounting your Ironbridge. Make sure that the antennas are not positioned close to reflecting metal surfaces.

Use the Cutting Template (Appendix), to secure the area for mounting. Fasten the templa-te, with tape, to the desired surface. 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 Ironbridge on schockmounts (available from IWCS or your local dealer).
Seal the holes with non-toxic industrial silicone.

OPERATION

MAIN DESCRIPTION DUAL DIGITAL ACCESS POINT
Ironbridge is the digital Audio link between two wireless Bluetooth headsets, like iriComm headsets or 3rd party headsets/earpieces.

SETTING UP INITIAL STARTUP

- Mount the two included antennas on iriBridge. Operating iriBridge without sui-table antennas attached may damage the unit.
- Connect the USB power cables to a suitable 5V/0.5A USB outlet. iriBridge turns on automatically and after a few seconds both indicator LEDs will be flashing green.

PAIRINGS
PAIRING (of two headseets)
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

- Put your headset into Bluetooth pairing (by flowing the instructions for the chosen headset).
- 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.
- 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.
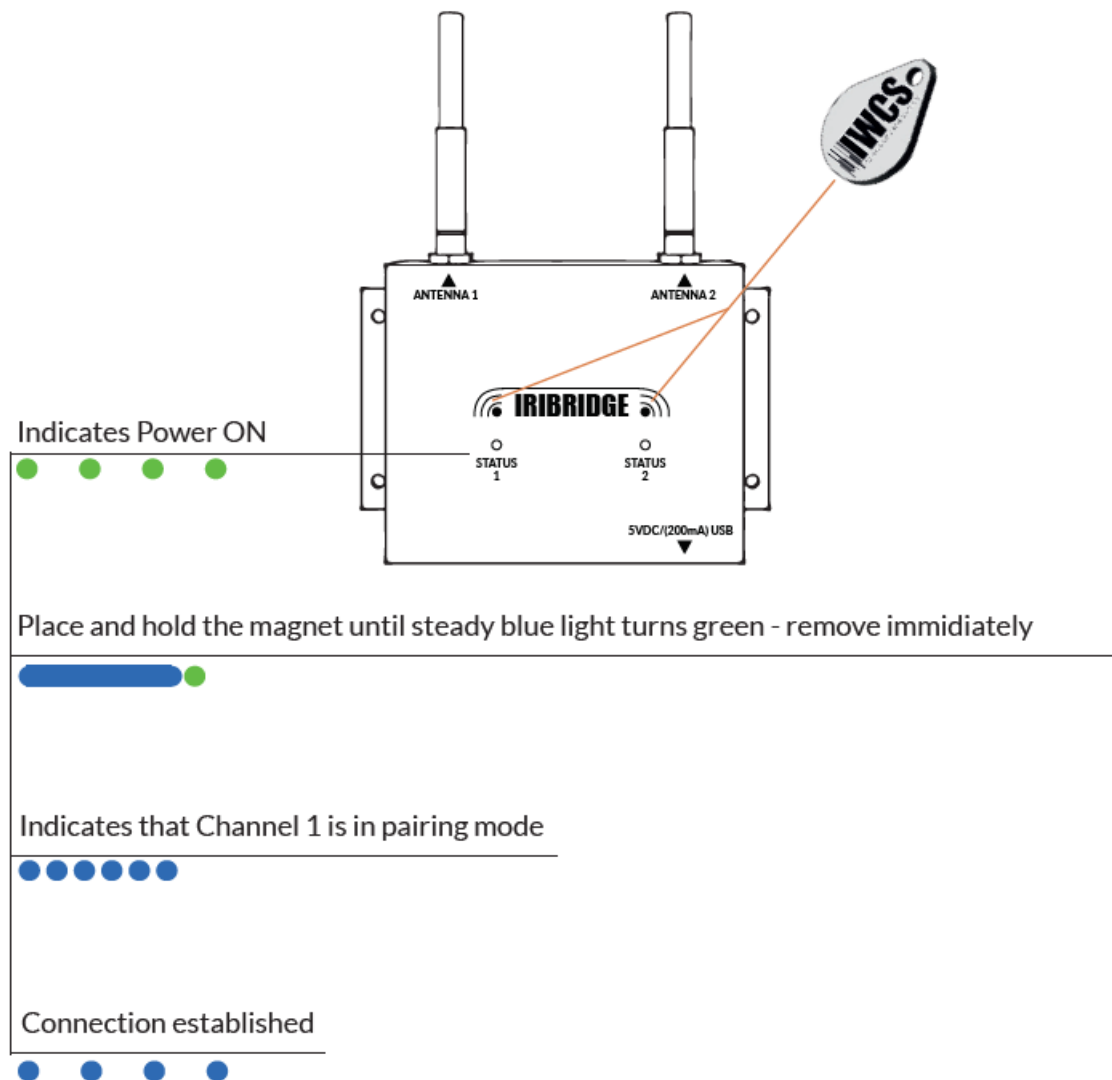
After use, simply turn off the power to iriBridge and turn off both headsets. Next time you turn on iriBridge and the headsets, they will automatically reconnect. No additional pairing procedures are required.
ADVANCED SETUP
iriBridge also has the feature of acting as a wireless link between e.g. two 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
PAIRING:

Indicates Power ON

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

Indicates that Channel 1 is in pairing mode

Connection established

- 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.
- 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.

  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).

FOLLOW THE SAME STEPS ON CHANNEL 2

SERVICE AND MAINTENANCE

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

SPECIFICATIONS

Specifications	iriConnect
Model	IR-20-1060-01
Width	120/150 mm
Depth	37 mm
Height – wo antennas/cables	100 mm
Height – w standard 3dBi antennas	270 mm
Weight	452 g
Temp. range	-20 to +65
IP Rating	IP67 (see comments in the section "WARRANTY LIMITATIONS")
Bluetooth Class	Class II
Power	5VDC/(200mA) USB
Antenna connector	RP-TNC
Release – Revision	03.02.2021 Rev. 1.0

CLEANING / MAINTENANCE

Do not use chemicals or solvents to clean your iriBridge. Use only fresh water. Pressure, friction, sharp objects, etc. can damage the product and the warranty may be void.
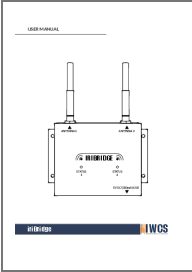
WARRANTY

Ironbridge is covered by a limited two (2) year warranty.

DECLARATION OF CONFORMITY

Refer to relevant section on www.iwcs.eu

Documents / Resources

IWCS IR-20-1060-01 iriBridge 2 Channel Intercom Unit [pdf] User Manual
IR-20-1060-01, iriBridge 2 Channel Intercom Unit, 2 Channel Intercom Unit, Intercom Unit, IR-20-1060-01, iriBridge

References

- 〽️ **Waterproof Intercom Solutions - IWCS - Heavy Duty Intercoms**