

User Manual

SERVICE / UPGRADES

Any Service or additional Upgrades must be handled by IWCS

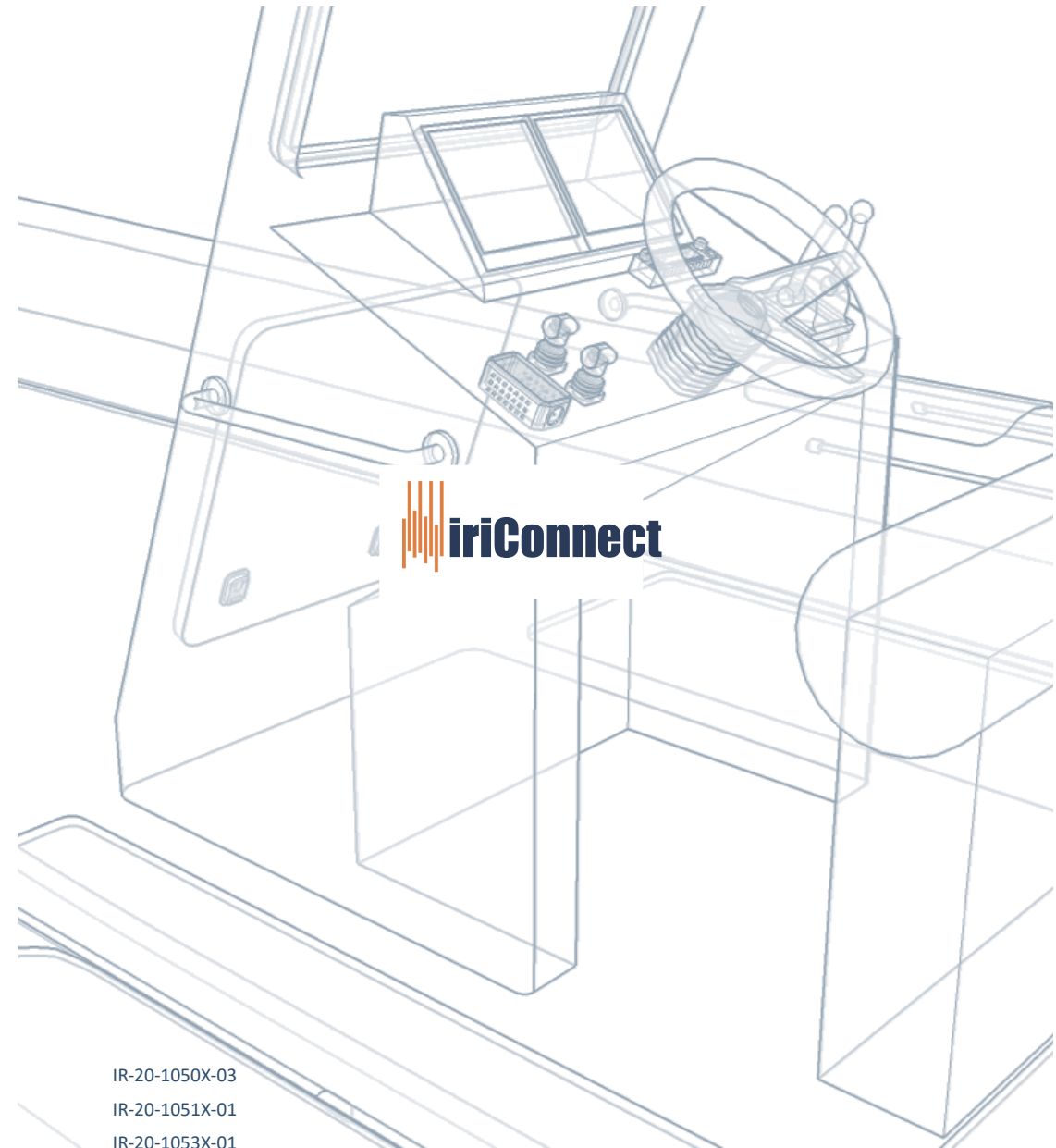
Do not try to open or modify the IWCS product

Call our Hot-Line at +45 43 43 26 26 or send us an email at support@iwcs.eu

IRIDIUM WATERPROOF COMMUNICATION SYSTEMS APS

PORTHUSVEJ 7A - 3490 KVISTGAARD - DENMARK

+45 43 43 26 26 - WWW.IWCS.EU - INFO@IWCS.EU



IR-20-1050X-03

IR-20-1051X-01

IR-20-1053X-01

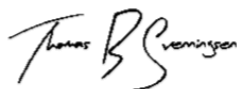
IRIDIUM WATERPROOF COMMUNICATION SYSTEMS APS



CONGRATULATIONS ON YOUR NEW PRODUCT FROM
IRIDIUM WATERPROOF COMMUNICATION SYSTEMS

iriConnect

*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,
IRICONNECT WILL BE A RELIABLE
PARTNER IN MANY YEARS TO
COME.*



THOMAS B SVENNINGSEN
CO-FOUNDER OF IWCS



4.2 SPECIFICATIONS

Specifications	iriConnect
Model	IR-20-1050X-03 / IR-20-1051X-01 / IR-20-1053X-01
Width	71 mm
Depth	39 mm
Height	112 mm
Weight	220 g
Enclosure material	Silicone NE7160
Temp. range	-20 to +65
IP Rating	IP67
Automatic Light Control - Dimmer	No
Transmit power	6 dBm
Power	Powered by iriSound
Interface	IWCS Data Bus
Release	Januar 2019

CLEANING / MAINTENANCE

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

WARRANTY

iriConnect is covered by a limited warranty. A two (2) year full warranty *



4.1 TROUBLESHOOT

PROBLEM	CAUSE	SOLUTION
<ul style="list-style-type: none"> ▪ No light in LED Indicator 	<ul style="list-style-type: none"> ▪ Interface cable not plugged in ▪ Cable defective ▪ iriConnect is defect 	<ul style="list-style-type: none"> ▪ Secure correct assembling of iriSelect ▪ Check the rear connector is not twisted ▪ Try another cable ▪ Try another Audio Port on iriSound ▪ Replace iriConnect
<ul style="list-style-type: none"> ▪ RED light indication 	<ul style="list-style-type: none"> ▪ Data failure ▪ Cable defect defect 	<ul style="list-style-type: none"> ▪ Restart the system ▪ Replace cable
<ul style="list-style-type: none"> ▪ No Audio 	<ul style="list-style-type: none"> ▪ Paired device too far away ▪ Data Cable defect ▪ iriConnect defect 	<ul style="list-style-type: none"> ▪ Move paired device closer ▪ Replace Audio/Data Cable ▪ Replace iriConnect
<ul style="list-style-type: none"> ▪ No Data (PTT) 	<ul style="list-style-type: none"> ▪ Paired device too far away ▪ Data Cable defect ▪ iriConnect defect 	<ul style="list-style-type: none"> ▪ Move paired device closer ▪ Replace Audio/Data Cable ▪ Replace iriConnect

For other troubles - contact your local dealer support

CONTENT

CHAPTER 1	INTRODUCTION	
1.1	Disclaimer	Page 4
1.2	Copyright	Page 4
1.3	Trademark	Page 4
1.4	Safety Warning	Page 5
CHAPTER 2	INSTALLATION	
2.1	Unboxing	Page 6
2.2	Tools	Page 6
2.3	Installation	Page 7
CHAPTER 3	OPERATION	
3.1	Main Description	Page 10
3.2	Panel overview	Page 11
3.3	Dimmer	Page 12
3.4	Radio PTT	Page 12
3.5	Mode Sector	Page 13
3.6	AVAD	Page 15
3.7	Error messages	Page 17
CHAPTER 4	SERVICE AND MAINTENANCE	
4.1	Troubleshoot	Page 18
4.2	Specifications	Page 19

Document number: IR-UM-010-01

Release date: January 22, 2019

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

2019 Iridium Waterproof Communication Systems ApS. All right reserved. Printed in Denmark.

1.3 TRADEMARK ACKNOWLEDGEMENTS

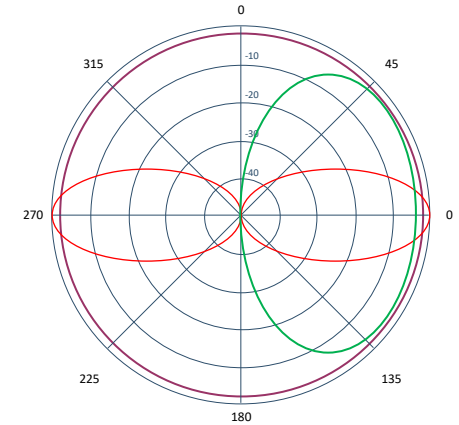
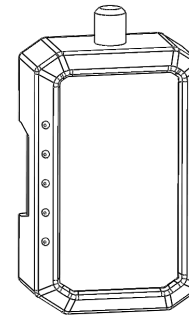
iriConnect is a Trademark by Iridium Waterproof Communication Systems ApS

3.2 EXTERNAL ANTENNA

FOR IR-20-1051X-01 ONLY

iriConnect with external antenna is delivered with a TNC connector.

Connect a selected antenna



Omni Directional

IMPORTANT

Maximum antenna gain must be <2.7 dBi

Radiation Pattern is for graphic explanation only, and does not reflect specific antennas



Directional

IMPORTANT

Maximum antenna gain must be <2.7 dBi

Radiation Pattern is for graphic explanation only, and does not reflect specific antennas

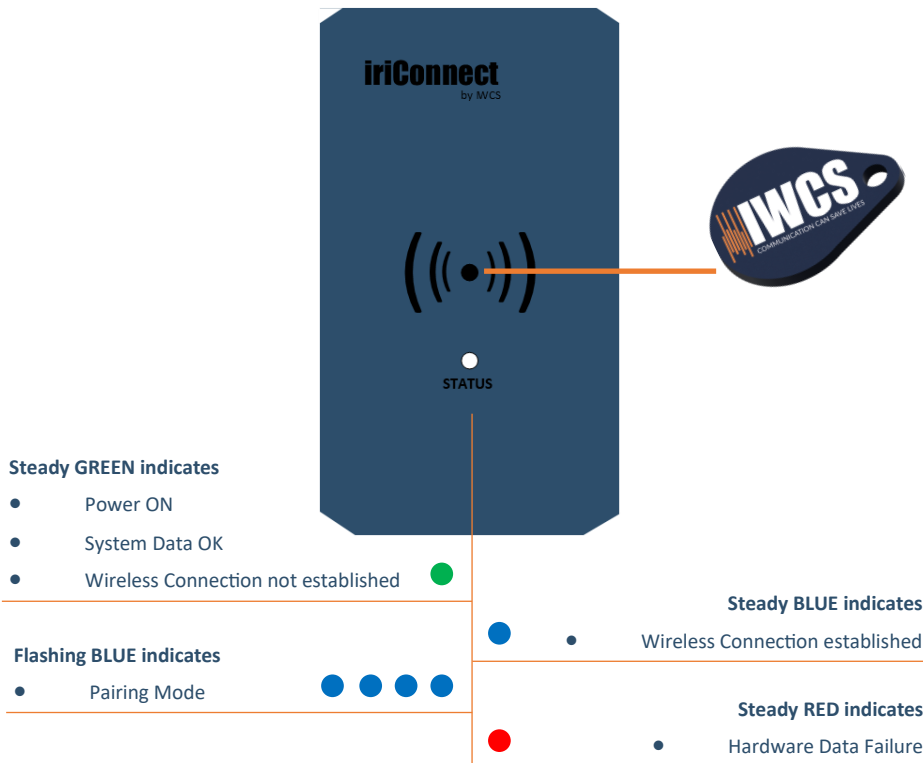
3.1 PAIRINGS AND INDICATIONS

DIGITAL ACCEPOINT WITH MULTIPLE FUNCTION

iriConnect has an LED indicator, giving important information.

iriConnect is powered from iriSound, and will have a steady GREEN indication when the Audio/Data cable is connected and iriSound is turned ON.

For pairing iriConnect with onother device, iriConnect must be set into pairing mode.



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 warning 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

iriConnect 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, iriConnect will turn off and will automatically restart when power is restored. Power interruptions limited to iriSelect will not affect existing communications. 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.

INSTALLATION AND SERVICE

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

DISPOSAL

When disposing of iriConnect and related equipment, it must happen in accordance with applicable national law. There are no batteries in iriConnect.

3.1 MAIN DESCRIPTION

DIGITAL ACCEPOINT WITH MULTIPLE FUNCTION

iriConnect is the digital Audio/Data link between a wireless unit (Wireless headsets, radios, Mobile Phones) and an existing iriSound Intelligent Intercom System

iriConnect routes the Audio from the external paired unit to iriSound and from the Mixed iriSound to the external paired unit.

iriConnect is also a gateway for a wireless PTT in a headset.



2.3 INSTALLATION

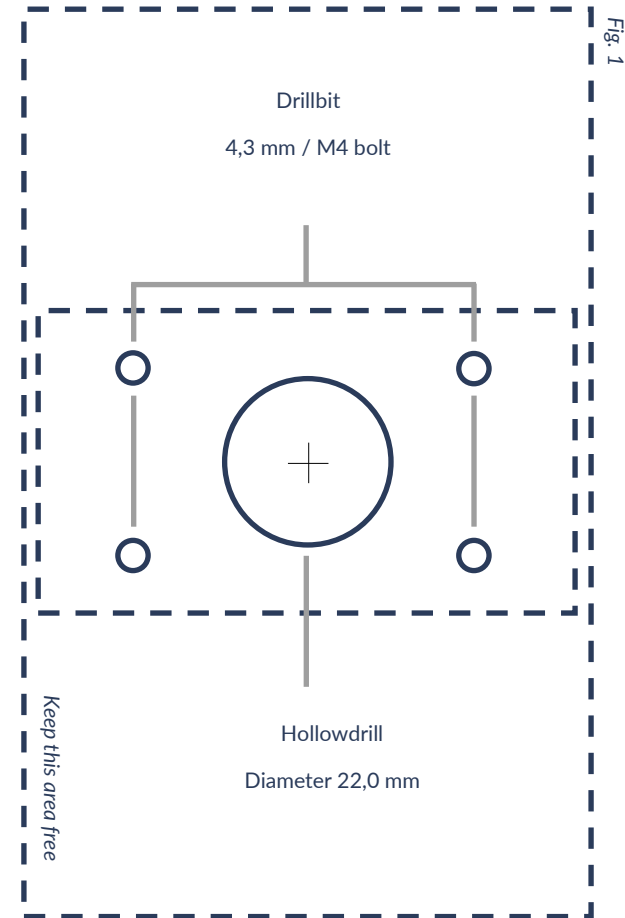
MOUNTING THE BRACKET

IMPORTANT: Position the iriConnect referring to “iriSound Intercom Installation Guide”

Use the Cutting Template below (Fig.1), to secure the area for mounting. Fasten the template, with tape, to the desired surface. Drill 4 x holes (4,3 mm or 3,2 mm depending on type of screw)

Drill the centerhole with a 22,0 mm hollow drill. Seal the holes with

DRILL TEMPLATE



BACKSIDE OF DRILL TEMPLATE

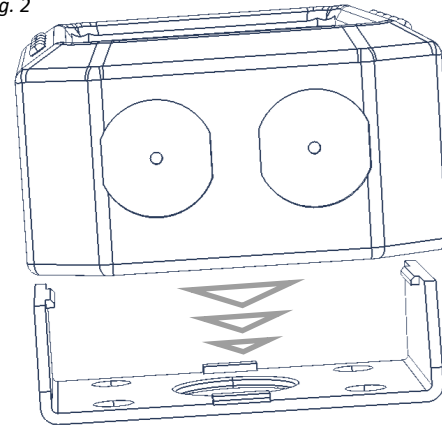
MOUNTING IRICONNECT - FOR FIXED INSTALLATIONS ONLY

When the bracket is fastened, an IWCS Data Bus cable is pulled from the inside, through the 22,0 mm center hole.

Connect the IWCS DataBus cable to the Interface in the bottom of your iriConnect. Make sure that the bajonet closes and there is an O-ring inside the connector. The other end of the cable must be connected to Channel 1 - 8 on your iriSound (refer to your schematic)

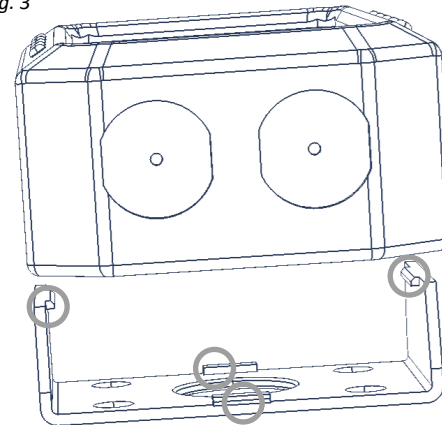
Then carefully slide the iriConnect over the bracket (*Fig. 2*), and make a soft pressure to the edges of iriConnect, until the taps (*Fig. 3*) on the bracket click into place.

Fig. 2



Slide and press softly

Fig. 3



Taps

If the 2 lower taps (underneath the enclosure) are not fully clicked in place, carefully lift and pull the ends away from each other.