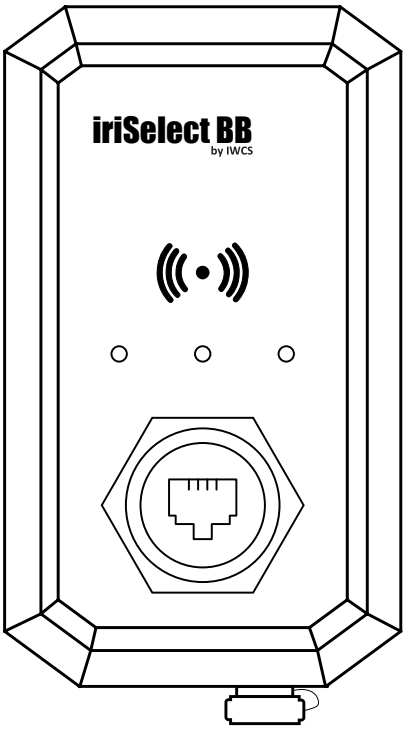
User manual



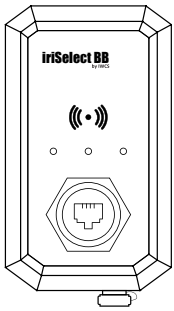
iriSelect Black Box

IWCS
COMMUNICATION CAN SAVE LIVES

CONGRATULATIONS ON YOUR NEW PRODUCT FROM

IRIDIUM WATERPROOF COMMUNICATION SYSTEMS

iriSelect Black Box



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, iriSelect Black Box WILL BE A RELIABLE PARTNER IN MANY YEARS TO COME.

THOMAS B SVENNINGSEN
CO-FOUNDER OF IWCS

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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 informational purposes only, is subject to change without notice and may contain errors or inaccuracies.

Manuals issued by IWCS are periodically revised and updated. It is recommended that anyone relying on this information acquires the most current version by requesting it at info@iwcs.eu.

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

Graphics and layouts may vary depending on the MFD (Multi-Function Display), tablet or mobile device you are using, as well as the versions of software installed.
The appearance, functionality and user interface elements may differ based on the specific device and software configurations. Please note that the illustrations, screenshots or examples provided in this documentation are for general reference and may not precisely reflect the actual user interface or display on your specific device.

This product should only be installed by professionals. IWCS cannot be held responsible for any system malfunctions or damages resulting from improper installations.
It is recommended to seek assistance from qualified technicians or authorized personnel to ensure the correct installation and operation of the product.

1.2 Copyright

2023 Iridium Waterproof Communication Systems ApS. All right reserved.
Printed in Denmark.

1.3 Trademark

iriSelect Black Box is a Trademark by Iridium Waterproof Communication Systems ApS.

Revision	Date	Firmware Version
0	27-06-2023	
1	01-02-2024	Address Changed
2	15-02-2024	Firmware v.1.1.0
3	04-04-2024	Firmware v.1.1.1
4	09-04-2024	Firmware v.1.2.0
5	13-01-2025	Firmware v.2.2.0/1.2.0
6	01-07-2025	Firmware v.2.3.0/1.3.0

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.

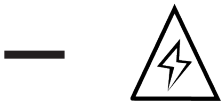
- EMC / RF EXPOSURE
  iriSelect Black Box is CE and UKCA certified as stated in the Declaration of Conformity, which is included in this manual.



- 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, iriSelect Black Box will turn off and will automatically restart when power is restored.
  Power interruptions limited to iriSelect Black Box 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 IPX7). 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.



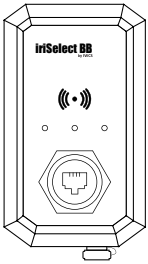
- DISPOSAL
  When disposing of iriSelect Black Box and related equipment, it must happen in accordance with applicable national law.



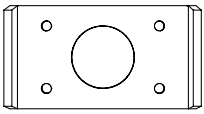
Unboxing

2.1 What's in the box

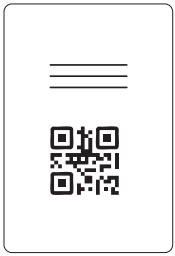
1 x iriSelect Black Box



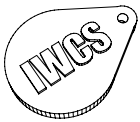
1x Mounting Bracket



1 x User Manual



1 x Magnet



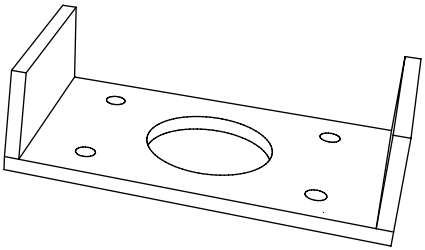
Installation

3.1 Installing the Bracket

Before installing the iriSelect Black Box, it's essential to determine whether you will be using it via a Ethernet cable or wireless. If you opt for a Ethernet cable connection, ensure that you have ample space for the cable to connect to the front of the iriSelect Black Box and consider the length of your LAN cable. If you choose to do a wireless connection, it's crucial not to hide or cover the unit to maintain a stable connection between the iriSelect Black Box and your MFD (Multi-function display), mobile device or computer.

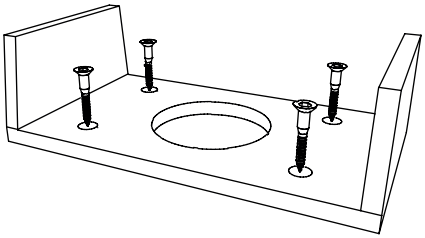
Placing the Bracket

The bracket serves as a secure mounting solution for the iriSelect Black Box.
It is crucial to ensure that sufficient space is provided around the bracket to accommodate cables and wiring. For detailed instructions on installing the bracket, please refer to page 8, where you will find a helpful 1:1 template indicating the precise hole locations.

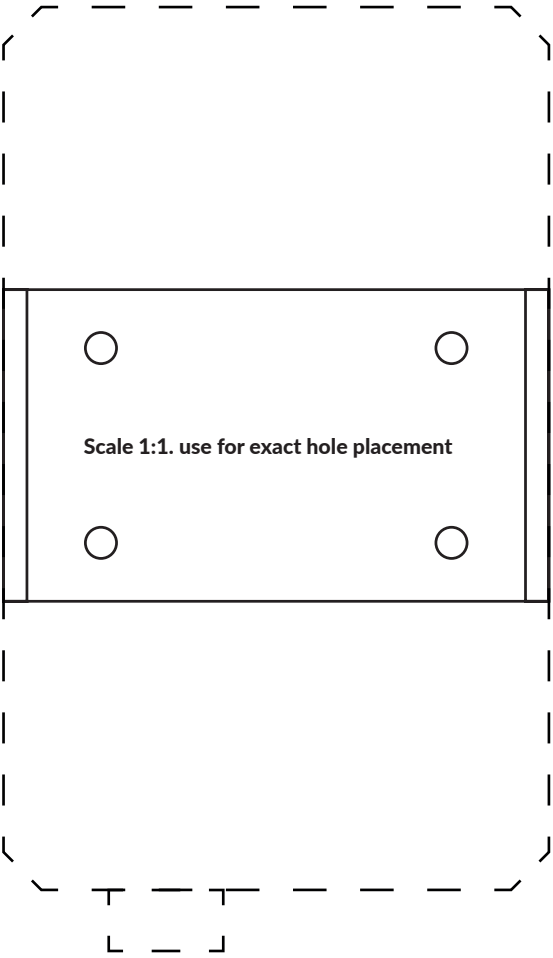


Screws and holes

After determining the desired location for the iriSelect Black Box, select screws that are appropriate for the surface you will be mounting it on. Depending on the material, you may need to drill holes prior to securing the bracket. Ensure the screws provide a secure hold to keep the iriSelect Black Box in place.



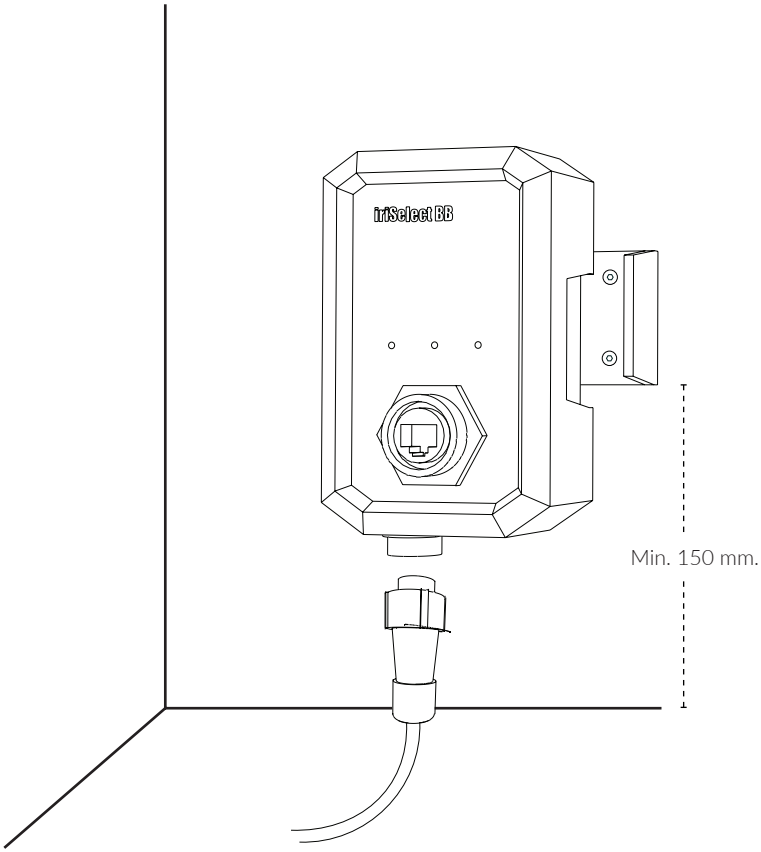
3.2 Screw holes 1:1



Backside of drill tamplate

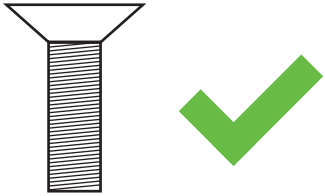
3.3 Bracket placement

The minimum distance from the underside of the bracket to the nearest surface should be no less than **150 mm** to ensure proper cable clearance.

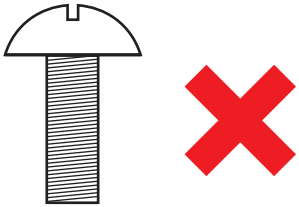


3.4 Screws

Flat head counter sunk screws



Round headed screws



3.5 Drilling holes

When mounting the bracket for the iriSelect Black Box, 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 3.3 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.

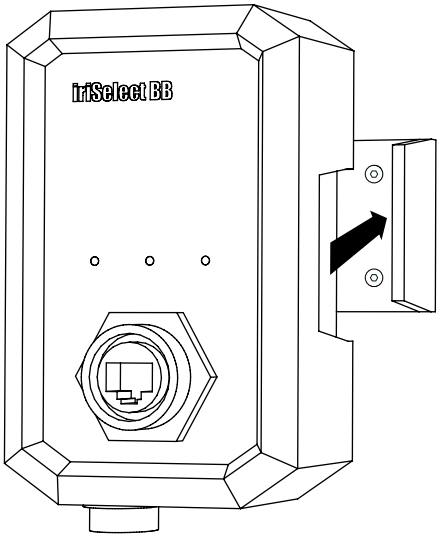
By using the recommended screw size and drill bit size, you can ensure a secure and proper installation of the bracket for the iriSelect Black Box.

3.6 Installing the iriSelect Black Box

Once the bracket is securely in place, you can proceed to inserting the iriSelect Black Box into the designated slot. You might need to wiggle the iriSelect Black Box slightly to make it fit between the bracket arms.

Securely in place

Gently use your hands to apply pressure and push the iriSelect Black Box into place within the bracket. Ensure a firm and secure fit by pressing it all the way until you feel a snap, indicating that it is properly seated in the sockets. It is important to note that this should be done manually without the use of any tools. Avoid excessive force or using tools as it may cause damage to the device or bracket.



Connection Options

4.1 Connection Options

There are two main options by which you can connect your iriSelect Black Box to your MFD/PC is wired and wireless.

Out of the box, the iriSelect Black Box is preset to 'Ethernet' (wired) connectivity. This is also our recommendation to ensure a stable connection. Refer to page 15 for more information.

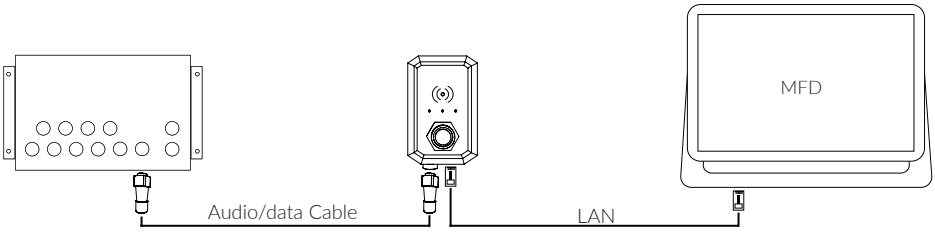
If you wish to establish a wireless connection, you have two options depending on your type of MFD. For a standard wireless connection using WiFi, refer to page 18. This connection is recommended if you intend to use your iriSelect Black Box via a PC or a tablet.

The other option is also a WiFi connection but utilizes your MFD's local WiFi accesspoint. This is recommended if you are looking to set up a wireless connection from your MFD to the iriSelect Black Box. Please refer to page 21 for instructions.

The iriSelect Black can support up to **4 devices** simultaneously, both wired and wireless. Please note that if you want to connect it via cable to multiple MFDs, the iriSelect Black Box must be routed through a switch.

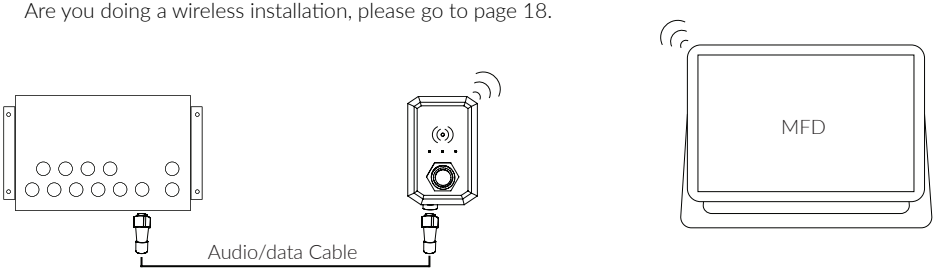
4.2 Wired Connection (Default)

Are you doing a wired connection, please go to page 15.



4.3 Wireless Connection

Are you doing a wireless installation, please go to page 18.



*Be aware of visiable SSID. Can be hidden from the settings page.

Ethernet Connection

5.1 Cable installation

Once the iriSelect Black Box is securely installed, you can proceed with inserting all the necessary cables. To ensure proper connections and waterproofness, please follow the steps below carefully.

1. Insert data cable

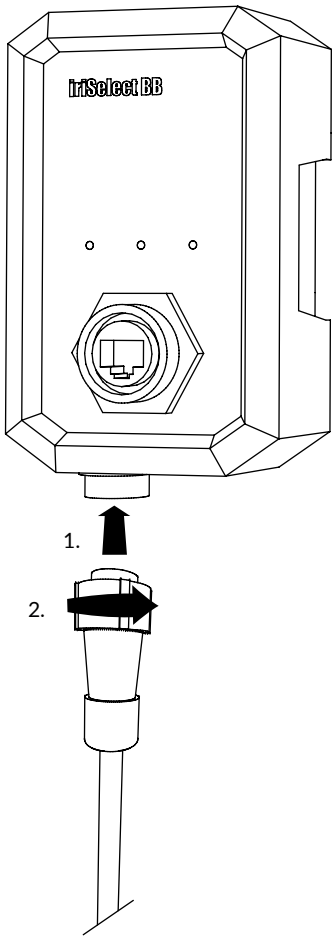
Align the white dot on the cable connector with the white dot on the flush connector. Press firmly until the connectors are fully engaged.

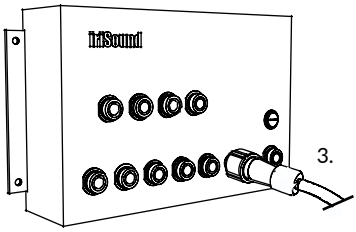
2. Turn to lock in place

Twist the end of the cable connector until you feel a click.
This step is important to ensure waterproofness.

3. Connect to iriSound

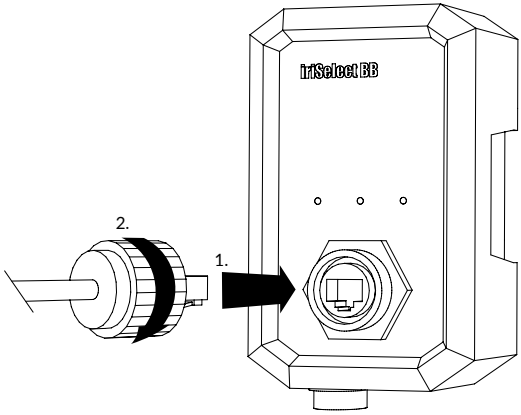
The other end of the data cable goes into one of the iriSounds AUX ports.





1. Insert LAN cable

Insert the Ethernet cable into the front of the black box.

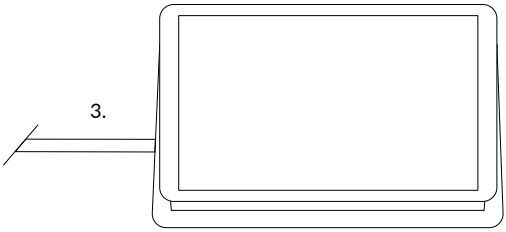


2. Tighten connector

Tighten the connector according to cable manufacturer's instructions. This is important to ensure waterproofness.

3. Connect to MFD or Router

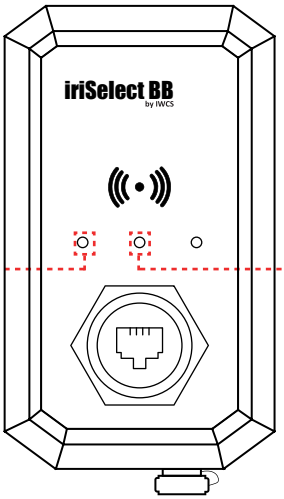
Connect the other end of the cable to an Ethernet-port on your Multi-Function-Display (MFD) or internet router.
Once the connection is established, the MFD will automatically detect the iriSelect Black Box and install the necessary software.



If connected to a PC through a router. Open a browser and go to: **"iriselect.local"**.

5.2 LED - Wired connection

When your iriSelect Black Box is connected, the two LED's (middle and left) should flash green.



LINK

LINK should be a stable green light. This indicates that the iriSelect Black Box has connection to you MFD/PC.

ACTIVITY

ACTIVITY should flash green. This Indicates that the iriSelect Black Box is handling data traffic.

WiFi Accesspoint

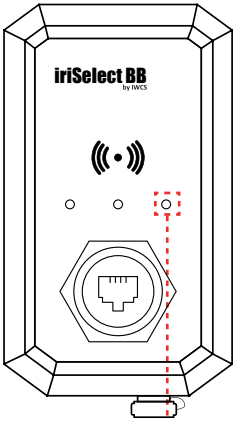
The WiFi Accesspointis the preferred method for connecting for your Phone, PC or Tablet.

6.1 Connect to iriSound

Start by connecting the iriSelect Black Box to your iriSound just like shown on page 15 to provide power to the unit. The LED on the right side should start flashing.

6.2 LED's - Wiresless connection

When making a wireless connection between the iriSelect Black Box and your PC, phone or tablet, it is important to be aware of the LED on the right. This should also be the only one flashing during this process.



LED Indicator

1. If the iriSelect is not connected to anything the LED to the right will flash:
   "3 short flashes, long break"

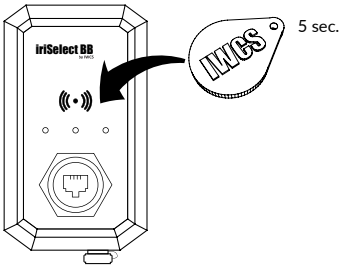
2. The iriSelect Black Box flashes 3 times in a row. Indicating it is sending out a WiFi.

3. The iriSelect Black Box has a steady red light. Indicating it is connected to a MFD/PC.

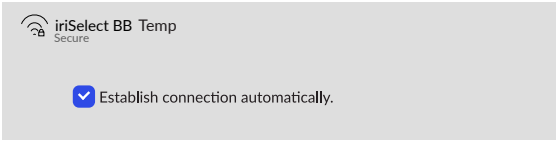
6.3 Connect to the iriSelect Wireless

To activate the WiFi on the iriSelect, hold the provided magnet on the front of the device, until the right “STATUS” LED has a steady green or *red light, then remove the magnet.

NOTE: The “iriSelect Temp” WiFi is a temporary network that automatically turns off after a restart or after 3 minutes with no connected devices. It should only be used to set up a stable connection method, such as WiFi Accesspoint, Ethernet, or Client mode.



Open op the WiFi settings on your PC or Phone and look for the WiFi “iriSelect Temp” and connect. (no password needed)



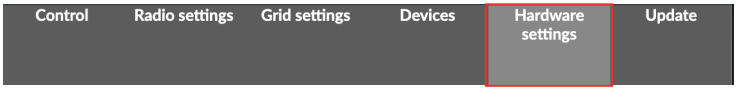
Once connected to ”iriSelect Temp” WiFi open a browser and type ”iriSelect.local/Settings” in the search bar.



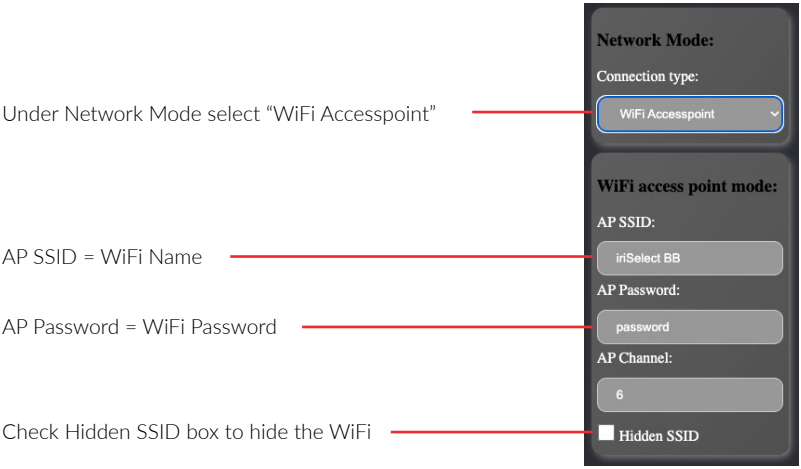
*The Status LED is red on version one and green on version two of the iriSelect Black Box.

6.4 Changing the Connection Type

From the settings page navigate to “Hardware Settings”.
From the drop-down menu, select “WiFi Accesspoint”.



Once WiFi Accesspoint has been selected, you can go ahead and fill out your preferred SSID name and password. If you don’t choose anything here, the default is:
SSID name: **iriSelect BB**
SSID Password: **password**



Press the updated button when you are done.
You will lose connection to the iriSelect.
Connect to the “iriSelect BB” WiFi.

The iriSlect Black Box has now been set to “Wifi Accesspoint”. From now on every time you power up the iriSelect you are able to connect to the “iriSelect BB” WiFi without any use of the magnet.

Client Connection

Client mode is ideal for establishing a wireless connection to an MFD or for connecting the iriSelect Black box to an existing WiFi network. If you wish to connect your MFD via the Client Mode, your MFD must have a build in WiFi. To turn this on, please refer to your MFDs Manual.

7.1 Connect to iriSound

Start by connecting the iriSelect Black Box to your iriSound just like shown on page 15 to provide power to the unit. The LED on the right side should start flashing.

7.2 Access settings site

To access the settings site please refer to page 19/20.

7.3 Set to Client mode

From the settings menu "Hardware Settings" set the Network Mode to "WiFi Client".

Click "Scan SSIDs" and select the WiFi you want to connect to. If the SSID you are looking for is not showing or is hidden, you can type it in manually at the bottom of the SSID list.

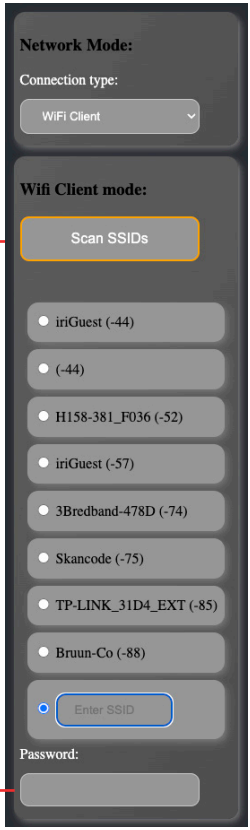
Enter the password for the selected WiFi in the password input.

Press the updated button when you are done.
You will lose connection to the iriSelect.

If connected to an MFD look for an "Intercom" app.

If connected to PC, phone or tablet, open a browser and go to "iriSelect.local"

The iriSlect Black Box has now been set to "WiFi Client". From now on every time you power up the iriSelect it will connect to the WiFi you have chosen.



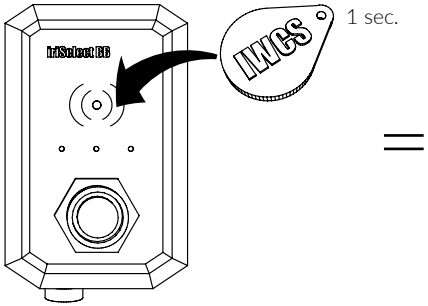
Access Settings Site

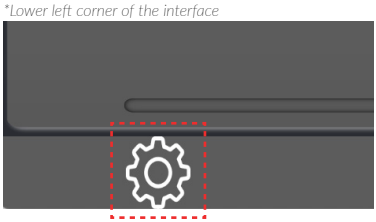
8.1 Access Settings

Once you have established a connection to the iriSelect Black Box and the interface is visible on your MFD, PC, or tablet, follow these steps to access the settings menu:

1. Hold the provided magnet against the front of the iriSelect Black Box for approximately 1 second.
2. A settings icon will appear in the lower-left corner of the interface.
3. Tap or click the icon to open the settings menu.

Note: Ensure the magnet is placed precisely on the designated sensor area for successful activation.





After clicking the settings icon, the screen will split into two sections. The left side will display the interface, while the right side will show the settings panel.

Please note that the settings panel is a sub-window, and some MFDs do not support scrolling within this type of window. If this is the case, you can click the “Start Config AP” button. This will activate a Wi-Fi network called “iriSelect Config.” Connect your mobile device, PC or tablet to this network, then open a web browser and go to **iriselect.local/settings**. From here, you can access and adjust all settings.

Each time you press the “Update” button within the settings interface, any changes made will be applied instantly and reflected on your MFD.

The “iriSelect Config” Wi-Fi network will automatically turn off when the iriSelect Black Box is powered down or if no devices have been connected to the network for five minutes.

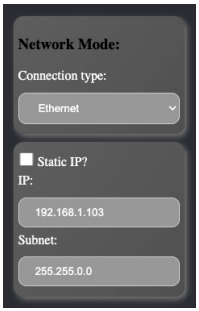


Settings Site

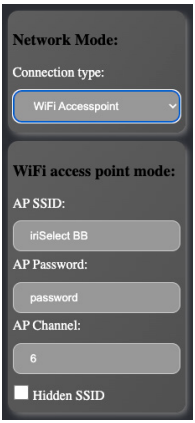
9.1 Hardware Settings

From the hardware settings you can choose how you wish to connect to the iriSelect Black Box.

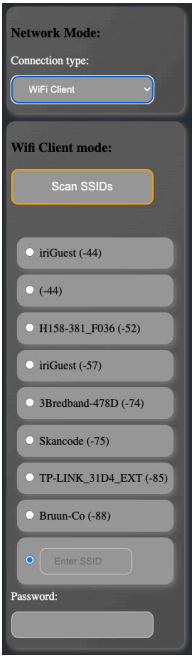
Ethernet



WiFi Accesspoint



WiFi Client



Update

When you have chosen your desired connection method, click ”update”.

After Clicking Update, you will lose connection and will have to connect to the iriSelect again via the chosen method.



9.2 Control

From the “Control” tap you have the option to:

Reboot the devices: Completely restarts the iriSelect Black Box. Saves all data.

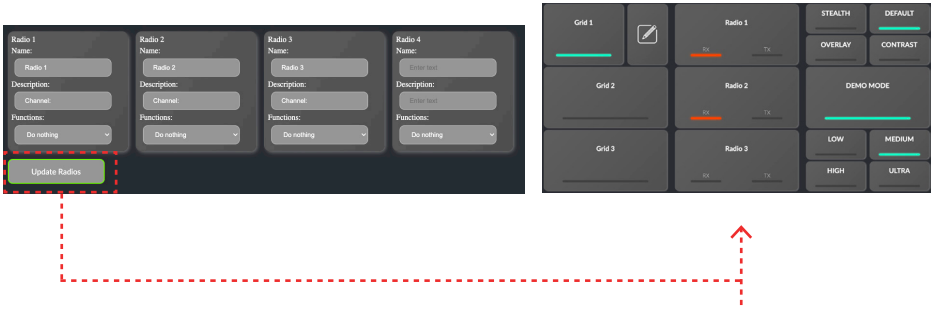
Start Config Wifi: Start a separate WiFi (SSID: iriSelect Config) that allows you configure the iriSelect via **“iriSelect.local/settings”**, while still connected via Ethernet, WiFi Accesspoint or WiFi Client.

Clear Grids: Resets all grids grid settings.

Clear User Data: Resets the iriSelect Black Box back to factory settings. Keeps the firmware version installed.

9.3 Radio Settings

Under the radio settings, you have the ability to set up and configure your different radios. This includes assigning names and descriptions to each radio for easy identification and quick usage. Furthermore, the radio settings also determine which radios will appear on your home screen.



Please note that the radio connected to the lowest channel number on your iriSound should always be assigned as ”Radio 1” in the radio settings. Meaning, if you have radios connected to channels 6, 7, and 8 on your iriSound, you should configure them as followed:

”Radio 1” = radio connected to channel 6 on the iriSound.
”Radio 2” = radio connected to channel 7 on the iriSound.
”Radio 3” = radio connected to channel 8 on the iriSound.

This configuration ensures that the assigned radio names correspond to the physical connections on your iriSound.
Please refer to your schematic.

Setting up radios

1: Give radio name

This name will appear on the "Radio 1" Button on your home screen.

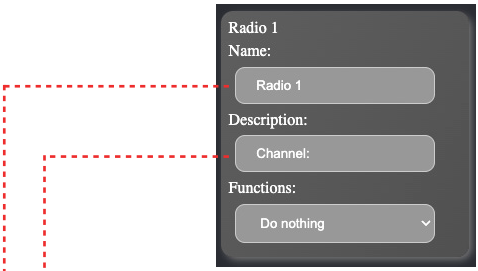
2: Add description

The description will appear underneath the name on the "Radio 1" button on your home screen.

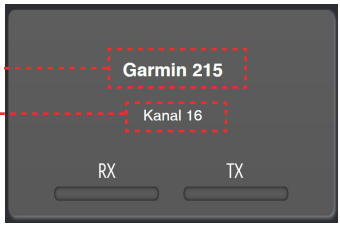
3: Functions

The "Function" feature customizes the behavior of your radio when you press the button on the home screen, allowing you to assign specific actions for quick access.

*Settings site -Radio settings



*Home Screen on MFD



4: Continue with radio 2, 3, 4

5: Press update when done

Make all your desired changes and press "Update".

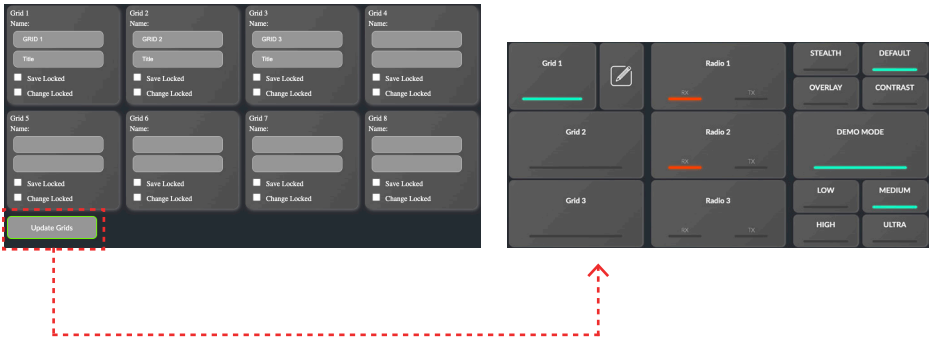


NOTE: If you don't name your radios, they will not appear on your interface.

9.4 Grid Settings

In the grid settings, you have the flexibility to determine the number of grids you would like from 1 to 8, the named grids will be visible. These grids will appear on the left side of your home screen, providing convenient access to different talk groups or communication channels.
By configuring the grid settings, you can customize the layout and organization of your talk groups to suit your specific needs.

The grids layout is edited directly from the Multi-Function Display (MFD) or a compatible device.



1: Set grid name

2: Set grid description

3: ”Save Locked”

When checked on the user is not allowed to save changes made to the grid, but can still be edited. It will change back to default when you switch grid.

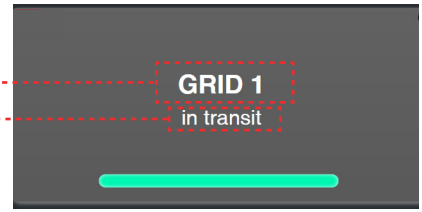
4: ”Change Locked”

When checked on the user is not allowed change the grid. They will still be able to open the grid and see its layout.

*Settings site - Grid settings



*Home Screen on MFD



5: Continue with grid 2, 3, 4,....

6: Press update when done

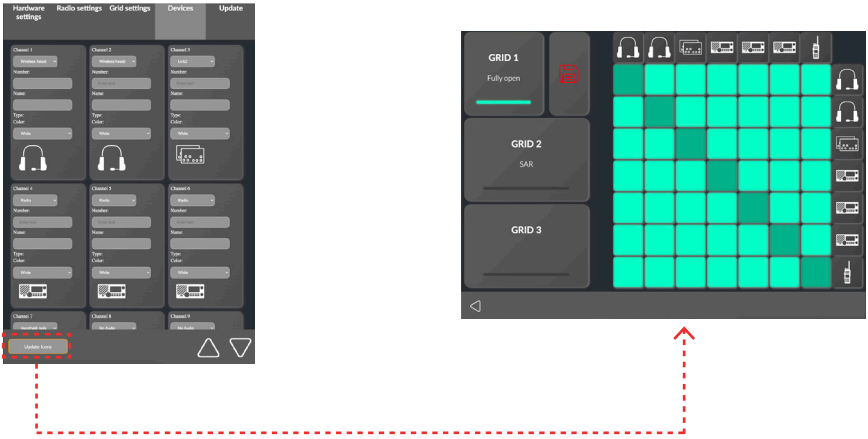
Make all your desired changes and press ”Update”.



9.5 Devices

In the grid size menu, you have the option to customize the size of your grids based on your specific needs. This feature takes into account the number of headsets and radios you have connected to the iriSound. By selecting the appropriate grid size, the system will automatically adjust to accommodate the maximum number of accessories you have.

The maximum size of your grids is 10x10.



When configuring your grid size, it is crucial to ensure that the order of settings match the physical installation. Please refer to your schematic.

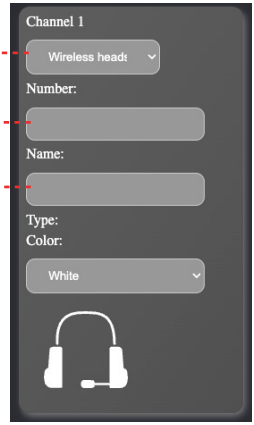
1: Set Icon Type

2: Set Icon Numbe (Optional)

3: Set Icon Name (Optional)

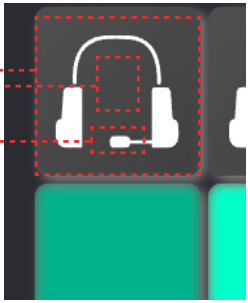
4: Set icon color (Optional)

*Settings site - Grid size



5: Continue with channel 2, 3, 4,....

*Edit Grid Site on MFD



6: Press ”Update” when done

Make all your desired changes and press ”Update”.

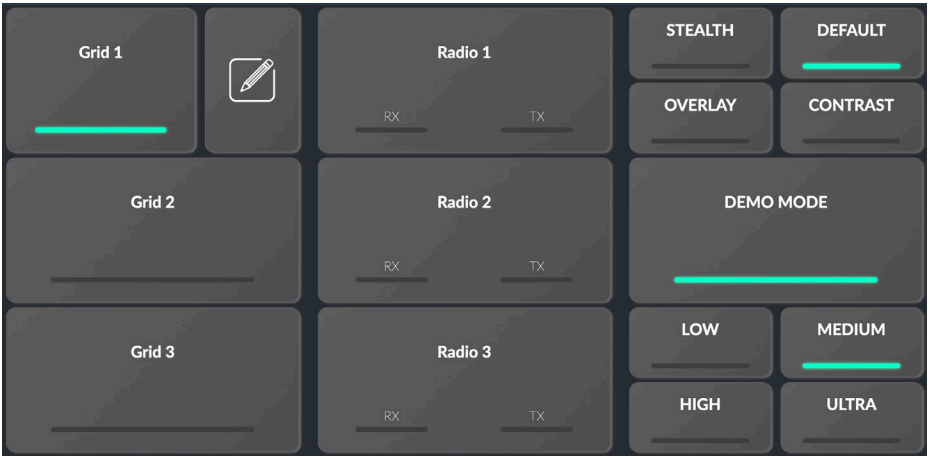


The Interface

10.1 Understanding The Interface

Home Screen

The home screen is your central control hub, providing full control over your intercom system. It displays active radios, enables push-to-talk functionality, offers AVAD controls, integrates phone calls and features a user-friendly interface for easy operation.



Graphics and layout may vary depending on the MFD (Multi-Function Display), tablet or mobile device you are using, as well as the versions of software installed. The appearance, functionality and user interface elements may differ based on the specific device and software configurations.
Please note that the illustrations, screenshots or examples provided in this documentation are for general reference and may not precisely reflect the actual user interface or display on your specific device.

10.2 Grids Selection

The ”Grid Selector” section provides you with the ability to quickly switch between your preset talk groups. These talk groups are prefigured communication channels that you can customize to meet your specific needs.

Edit Grid

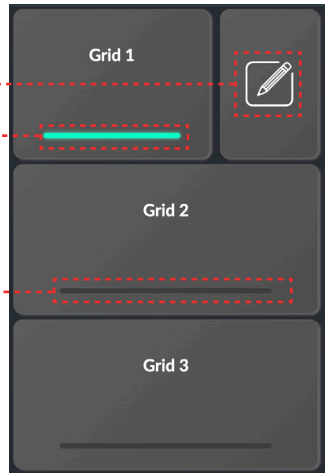
If you want to edit the currently active grid, simply click the ”Edit” button displayed on the grid interface.

Active grid

When the grid lighting is green, it indicates that the grid is active and in use.

Inactive grid

When there is no light, it means that the grid is inactive.
To activate it, simply click on it. Please note that activating a new grid will deactivate your current grid. It’s important to remember that only one grid can be active at a time.



10.3 Radios

The ”Radio” section provides you with a comprehensive overview of all your active radios. It allows you to monitor and keep track of each radio in real-time. This feature enables you to see which radios are currently being engaged in communication, providing valuable situational awareness. Additionally, the radio tabs within this section also serve as a convenient Push-to-Talk (PTT) function.

RX

When the RX light is illuminated, it indicates that you are receiving incoming communication on this specific radio.



TX

When the TX light is illuminated, it means that you can now transmit or talk out on this particular radio. Please note that this functionality is active only when the push-to-talk (PTT) button is held in.



10.4 Error

The ”ERROR” indicator will alert you if there is a loss of connection to a headset or an other device has been disconnected from your intercom system.

“B” Error’s refer to a wireless connection has been lost. Ex. headset.

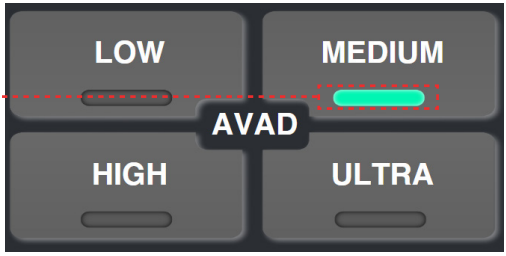
“C” Error’s refer to a channel on your iriSound has lost its connection. Ex. a cable has been pulled out.



10.5 AVAD

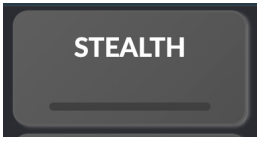
AVAD (Adaptive Voice Activity Detection) constantly adjusts to the surrounding noise level for optimal communication. Set the AVAD level based on your situation.

The green light indicates what level your AVAD is currently active.



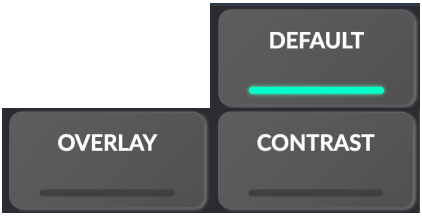
10.6 Stealth

When the "STEALTH" mode is activated, it will turn off all lights on your IWCS intercom system including headset LED's.

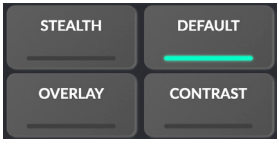


10.7 Skins

Choose between the different skins "Default, Overlay, Contrast".



Default



Overlay



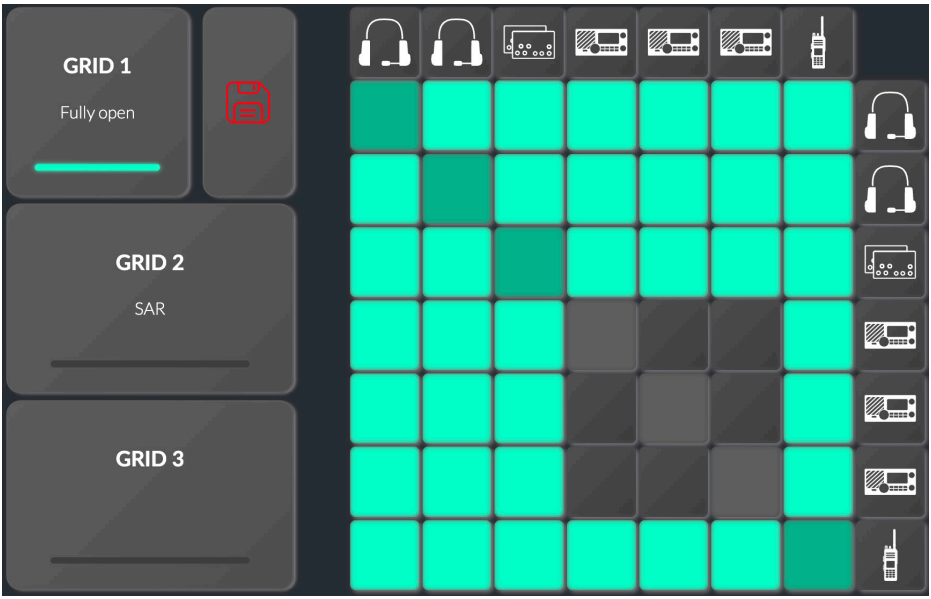
Contrast



Grid Site

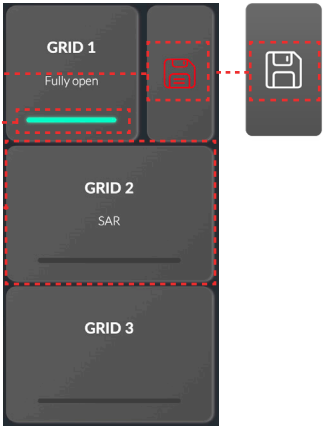
11.1 Grids

From the grid edit page you can change the layout of all your grids.



11.2 Save button

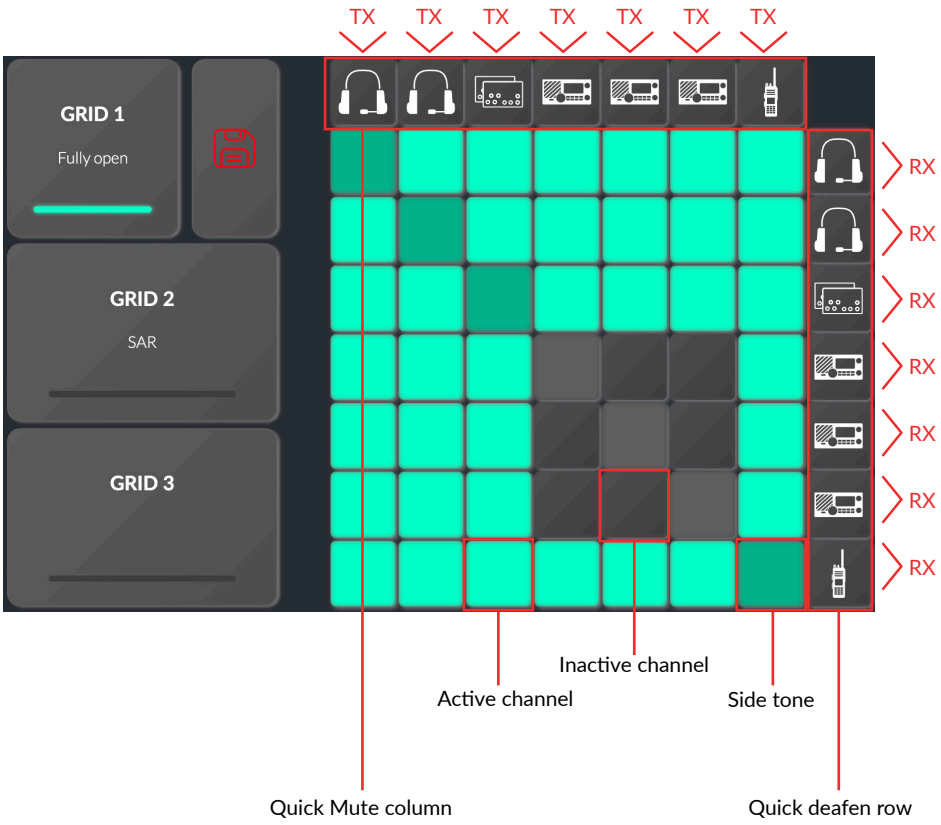
A save button will appear on the grid you have selected. If you make any changes to the grid the save button will turn red indicating you have unsaved changes. If you wish to save your changes, click the icon and it will turn white again. This is now your default on this grid.



Currently editing grid

Press to edit grid

11.3 Grid Editing



11.4 Grid Menu Bar

The menu bar in the interface adapts dynamically based on the site or page you are currently viewing. As you switch between different sites within the interface, the menu bar will reflect the context of each site

Back to home screen



Service and Maintenance

13.1 Maintenance

Please refrain from using chemicals or solvents to clean your iriSelect Black Box. Instead, use a damp cloth with cold or lukewarm freshwater to carefully wipe and rinse the visible surfaces of the device.

If there are saltwater crystals present, you can remove them by rinsing the affected areas with cold or lukewarm freshwater. Be sure to rinse thoroughly to eliminate any salt residue.

Avoid applying excessive pressure, friction or using sharp objects on the product, as these can cause damage and potentially void the warranty. Additionally, if the iriSelect Black Box remains unused for an extended period, it is advisable to reconnect it and update to the latest software version.

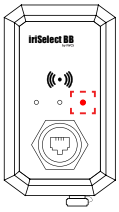
The power connector, which is gold plated, requires minimal maintenance. To ensure a secure connection, remove any salt crystals by using cold or lukewarm water. Dry the connector using a cotton swab or soft tissue. For added protection, apply a thin layer of acid-free silicone-based lubricant on the conductive gold surface.

13.2 Updating iriSelect Black Box

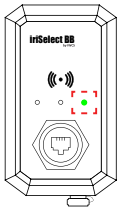
IMPORTANT

Before doing anything you first need to determine, what version of the iriSelect Black Box you are working with. This is a very crucial step. If not paid attention to, your unit will not function correctly and there is no redo.

Fortunately this is very easy. Simply power on your iriSelect Black Box and look at the "STATUS LED".



If the STATUS LED flashes RED you have a version 1 and should download the firmware 1.x.x



If the STATUS LED flashes GREEN you have a version 2 and should download the firmware 2.x.x

Download the latest firmware compatible with your iriSelect Black Box from IWCS website and unzip the folder.

Connection

Connect the iriSelect Black Box to your PC, either via LAN cable to your router or wireless via its built-in WiFi “iriSelect Temp”.

To turn on the WiFi, place and hold a magnet to the front of the iriSelect Black Box.
The “STATUS LED” will start flashing rapidly.
Remove the magnet once the LED is steady RED or GREEN - Depending on the version

Connect to the “iriSelect Temp” WiFi. (There is no password)

Once connected, open a browser and type “iriSelect.local/update” in the search bar.

Installation

Click “Choose image” and select one of the two files you just unzipped.
(it does not matter whether you start with the .BIN or the .IMG file)

Then click “update”. It will say “success” when done.

You might lose connection when a file has successfully updated. Simply reconnect and continue to the next step.

Now click on “choose image” again and select the other file and click “update” and wait for “success”.

Your iriSelect Black Box is now updated and ready to use.

13.3 Troubleshoot

Problem	Cause	Action
Settings Site not responding or loading	.IMG file incorrectly read on installation	Update only the .IMG file until the problem is fixed.
Connection Lost	Ethernet cable pulled out. Poor WiFi coverage. Audio data cable disconnected	Reinsert cable. Reconnect your black box to the WiFi.
Radios are not transmitting when clicking the radio buttons.	PTT function not enabled in the settings.	Enable PTT function under each radio in the settings menu.
I can't scroll in settings site on MFD	Some MFD does not support scrolling in sub windows	Make your settings from another device.
The grid does not do what i expect it to do when i select/deselect devices	Wrong wiring or incorrect devices set-up in settings.	Make sure that the devic-es in the settings matches the wiring to the iriSound.
I can't load "iriselect.local" on PC/Tablet/Phone.	Cashed files	Clear your browser's cache.
Keep disconnecting to the iriSelect Black Box WiFi.	Your PC/Tablet/Phone, trying to connect to other WiFi with internet access.	Tell you PC/Tablet/Phone, not to automatically connect to other WiFi's.

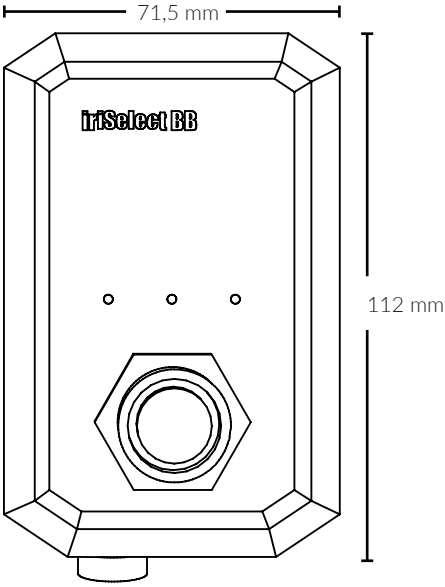
Technical Data & Specifications

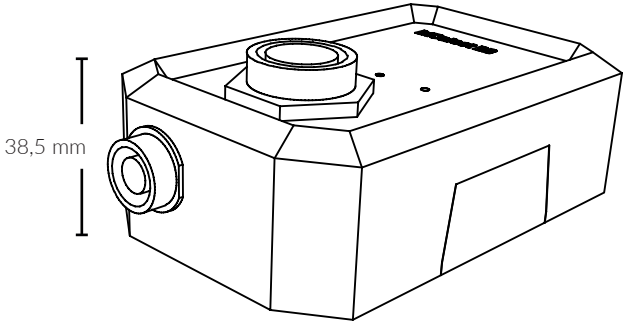
14.1 Specifications

iriSelect Black Box	
Weight	350 g
Size	L110xW75xH50 mm
Waterproof	IP67
Temperature range	-30 to +60 °C
Power Supply	IWCS Bus
IP-Setup	Static/Dynamic DHCP-server/DHCP-Client
Ethernet Connection	10/100 Mbs
Part number	IR-20-1043-01

* Can be limited by the 3rd party connector specifications. Refer to 3rd party for accurate limitations.

14.2 Measurements





14.3 Supported MFD's

Brand	Product	Display Size									
		7"	9"	10"	12"	16"	17"	19"	22"	24"	27"
Simrad	NSO evo3/3S					x		x		x	
	NSS evo3/3S	x	x		x	x					
	NSX	x	x		x						
	IDS		x		x						
	GO	x	x		x						
B&G	Zeus/3S Glass Helm					x		x		x	
	Zeus/3S		x		x	x					
	Zeus S	x	x		x						
	Vulcan	x	x		x						
Lowrance	HDS Pro		x	x	x	x					
	HDS Live	x	x		x	x					
	HDS Carbon	x	x		x	x					
	Elite FS	x	x								
Raymarine	Axiom series	x	x		x	x		x	x	x	x
Garmin	GPSmap series	x	x	x	x	x	x	x	x	x	x
Furuno	Chrome 83 Models	Any									
Tablets	Android/IOS	Any									
PC monitor	MS/MAC OS	Any									
Mobile phone	Android/IOS	Any									

**Disclaimer: Please note that this information is subject to change, and it is your responsibility to request the latest version of this document to ensure accuracy. As the data is frequently updated, we cannot guarantee the validity of the information provided herein after the date of distribution.*

iriSelect Black Box is developed, designed and manufactured by

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IWCS
COMMUNICATION CAN SAVE LIVES