Deeper Smart Sonar START

Technical Specifications

**Weight:** 2.1oz / 60g  
**Size:** 60 x 65 x 65-mm / 2.3 x 2.5 x 2.5in  
**Sonar Type:** Single beam  
**Frequency (Beam cone):** 120 kHz, 40°  
**Depth Range Max/Min:** Max 165ft / 50m, Min 1.6ft / 0.5m  
**Sonar Scan rate:** 10 scans per second  
**Operating Temperature:** 0°C to 40°C / 32°F to 104°F  
**Internal Battery:** Lithium Polymer, 3.7V Rechargeable, 850mAh  
**Power Supply input (for charging battery):** 5V DC, 650mA max  
**Power Adapter (not included in the box, recommended):** Input AC 110V/240V. Output Micro USB A, 5V 450mA

**Wireless connection type:**
Wi-Fi

**Casting Range:** Up to 165ft / 50m. Range depends on the OS and smartphone model

**Battery Life:** Up to 6 hours

**Charging Time:** 2.5 hours

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**Installing the Deeper App**

1. **Open** App Store or Google Play on your smartphone or tablet, and search for **Fish Deeper**.
2. Download and install the Fish Deeper app.

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FishDeeper app works on a wide range of devices that use iOS or Android operating systems. To check if the Deeper App will work on your device please go to **Compatibility**

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**Standard mode. Basic imaging (all models)**

In Standard mode set to basic imaging, you will be shown the bottom and Fish Icons. In this mode, your Deeper sends much less information to your phone. So, this mode can be useful for preserving battery life, improving the connection range, and also for inexperienced anglers who just need to know bottom depth and where the fish are.

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Logging in
To login to Lakebook™, go to maps.deepersonar.com. You can login using Facebook, Google or your My Deeper username and password. It is the same user name and password you use for the Deeper App.

Charging and connecting

First unscrew the top cover to open the device – please always ensure the device is dry before opening it. Now connect your Deeper Sonar to a USB power source using the cable included. For charging, please use a standard smartphone or tablet charger, or connect the cable to your personal computer, your car’s power outlet, or the USB outlet of another device.

When you connect your Deeper CHIRP to a power source, it automatically turns on. An orange light will flash in intervals to show the device is charging. The number of flashes indicates the status of the battery.

- One flash means charging just started and the battery is still empty.
- Two flashes mean 25% charged
• Three flashes mean 50% charged  
• Four flashes mean 75% charged

![Battery Icons]

• A blue light indicates that the temperature is too cold for charging. The lithium-ion battery cannot be charged at temperatures below 3°C / 37.4°F. Please take your Deeper Sonar to room temperature conditions and resume charging.
• A red light means there is a problem with charging. In this case, first please try a different charger and cable. Next, please leave the device charging for a longer period (over 1 hour). If the light is still red, please contact Support.

Once your device is charged, screw the top cover back on, ensuring it is closed tightly so that the words ‘Water’ and ‘Proof’ align perfectly.

Never put your Deeper in water when it is connected to the charger cable. This could damage the device and any damage will not be covered by the warranty. Always ensure the top cover is firmly closed and the Water Proof marks are perfectly aligned before putting your Deeper Sonar in water.

Please note you can only connect to one Deeper Sonar at a time from your phone or tablet. And your Deeper
Sonar can only connect to one phone or tablet at a time.

# How sonars work

Before you start using your Deeper device, it is important to understand some basic points about how sonars work.

1. **Sonars scan in cones.**

   ![Diagram of sonar scanning](image)

   This means when you mark a fish or feature, it is somewhere within the cone sent down by your sonar (not necessarily directly below your sonar). It also means that the deeper you scan, the wider the area you cover, because the sonar cone gets bigger as it goes down.

2. **Sonar displays constantly scroll**
When your Deeper is in the water, the sonar will be scanning constantly. This means the display continually scrolls from right to left, even if the sonar itself isn’t moving.

Read our page on how sonars work for a detailed explanation of these points, plus lots more useful information that will ensure you understand your device correctly.

Charging and connecting

First unscrew the top cover to open the device - please always ensure the device is dry before opening it. Now connect your Deeper Sonar to a USB power source using the cable included. For charging, please use a standard smartphone or tablet charger, or connect the cable to your personal computer, your car’s power outlet, or the USB outlet of another device.

When you connect your Deeper PRO or PRO+ to a power source, it automatically turns on. An orange light will flash in intervals to show the device is charging. The number of flashes indicates the status of the battery.

- One flash means charging just started and the battery is still empty.
- Two flashes mean 25% charged
Three flashes mean 50% charged  
Four flashes mean 75% charged  
A green light means the battery is fully charged.

A blue light indicates that the temperature is too cold for charging. The lithium-ion battery cannot be charged at temperatures below 3°C / 37.4°F. Please take your Deeper Sonar to room temperature conditions and resume charging.

A red light means there is a problem with charging. In this case, first please try a different charger and cable. Next, please leave the device charging for a longer period (over 1 hour). If the light is still red, please contact Support.

Once your device is charged, screw the top cover back on, ensuring it is closed tightly so that the words ‘Water’ and ‘Proof’ align perfectly.

Never put your Deeper in water when it is connected to the charger cable. This could damage the device and any damage will not be covered by the warranty. Always ensure the top cover is firmly closed and the Water Proof marks are perfectly aligned before putting your Deeper Sonar in water.

Please note you can only connect to one Deeper Sonar at a time from your phone or tablet. And your Deeper Sonar can only connect to one phone or tablet at a time.

Charging and connecting

Connect your Deeper Sonar to a USB power source using the cable included. For charging please use a standard smartphone or tablet charger or connect the cable to your personal computer or the USB outlet of another device (outlets must meet USB standards and have a voltage level of 5V).

When you connect your Deeper START to a power source, it automatically turns on. The light shown indicates the charge status of the battery:

- An orange blinking light means that the fishfinder is charging. The number of flashes shows the battery status:
  - One flash means charging just started and the battery is still empty.
  - Two flashes mean 25% charged
Three flashes mean 50% charged
Four flashes mean 75% charged
A constant light means the battery is fully charged.

If the light blinks rapidly without stopping there is a problem with charging. In this case, please follow these 2 steps.

1. Check the temperature. If it is 0°C / 32°F or lower, please try charging your Deeper START in room temperature conditions.
2. If you still see a rapidly blinking light, please contact Support.

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10x = \[\text{Temperature} \rightarrow \text{24/7}\]
Welcome to Deeper

At Deeper, our mission is to give you incredible experiences when you are fishing. So, we want to make sure you get the most from your Deeper Sonar. Our user guides and manuals will help you set up, maintain and get the best performance from your Deeper. Plus, you will discover the full range of functions and features your sonar has to offer. And if you have any further questions, our support team is on hand 24/7 to assist you.

Connection issues with Deeper’s Wi-Fi

Firstly, please bear in mind that the connection ranges of 100m / 330ft (PRO/PRO+) and 50m / 165ft (START) are maximum ranges and can only be achieved in perfect conditions and with a smartphone or tablet that has a strong reception antenna. Conditions like bad weather or using an incorrect attachment point may reduce the connection range.

To ensure a better connection range, first switch off Mobile Data on your smartphone / tablet, as this can affect the strength of your Wi-Fi signal. Mobile data strongly reduces the amount of information your device can send via its Wi-Fi connection.

For iPhones and iPads, it is very important to turn off the Wi-Fi assist feature as this feature can automatically switch off the connection with your Deeper. You can find this feature in the settings menu of your device.
Some Android phones have a similar feature, although the name of it may vary depending on the model of the phone. On Samsung phones, it is called **Smart network switch**. Other Android phones may have a similar feature with a different name. Please make sure that you **turn off** any settings that make your smartphone automatically disconnect from Wi-Fi networks with a poor internet connection. **Other possible names for this feature include:** Adaptive Wi-Fi / Auto Network Switch / Wi-Fi+.

If you’re using any VPN services that may require a Wi-Fi connection it is better to turn them off. If you don’t, the Deeper App may have difficulties connecting to the device automatically.

Do not to keep your smartphone or tablet on the ground while using the Deeper, as this can also reduce the strength of the signal. To maximize connectivity you should use the Deeper Smartphone Mount.

Please also note that it is only possible to connect to the Deeper using one smart device at a time. This means it will be impossible to connect to a Deeper Sonar if it is already connected to another phone or tablet. To switch off all current connections, simply take the Deeper out of the water, wipe it and wait for 5 minutes for the unit to turn off. Then, put it in the water again and connect.

**For the 3.0/PRO/PRO+ models only,** make sure you are using the correct attachment point in order to ensure a stable. When fishing from a dock or bridge, screw your attachment bolt to the middle attachment point. Use the bottom attachment point if you’re fishing from the shore. It is important that your Deeper does not tilt when being trolled or reeled. When it tilts, it scans the water surface rather than the bottom, giving inaccurate readings, and it’s Wi-Fi transmissions can be blocked, causing connectivity issues.

If these tips do not solve the issue, please reach out to the Deeper Support team.

Deeper Sonar models
Deeper Smart Sonar PRO

**Technical Specifications**

- **Weight**: 3.5oz / 100g
- **Size**: 65mm / 2.5in in Diameter
- **Sonar Type**: Dual Beam
- **Frequency (Beam cone)**: 290 kHz, 15° and 90 kHz, 55°
- **Depth Range Max/Min**: Max 260ft / 80 m, Min 2ft / 0.5m
- **Sonar Scan rate**: Up to 15 scans per second
- **Operating Temperature**: -20°C to 40°C / -4°F to 104°F
- **Internal Battery**: Lithium Polymer, 3.7V Rechargeable, 850mAh
- **Power Supply input**: Micro USB B type, 5V DC, 450mA max
  (for charging battery)
- **Power Adapter Input**: AC 110V/240V. Output Micro USB, 5V 450mA
- **Wireless connection type**: Wi-Fi
- **Casting Range**: 100 m
Basics for shore fishing with your Deeper

Casting out

- **Attachment points:** For shore fishing, make sure you attach your line to the bottom attachment point of the 3 attachment points on your Deeper (this does not apply to the Deeper START, which only has one attachment point). Using one of the other attachment points will result in the sonar sitting in the water at an incorrect angle.

- **Line:** All our sonars are tested to cast using line from 6lbs / 2.7kg test monofilament up to 20lbs / 9kg test braided line. Always ensure your line is in good condition - not frayed or worn - before casting out your Deeper Sonar.

- **Rods:** Deeper Sonars are suitable for casting with heavy action and medium action rods. With heavy action rods you can cast your Deeper overhead. With medium action rods, cast your Deeper using a side cast technique.

Reeling in

When reeling in your Deeper Sonar, the most important point to remember is to retrieve it at a slow, steady pace. Here’s why:

- **Reel in slowly:** Reeling in too quickly can cause your Deeper to rock from side to side. If this happens, the sonar readings will be less reliable. For example, if the sonar is tilted to one side, the sonar signal will have to travel further before it hits the bottom. This will result in the depth being shown as deeper than it actually is.

- **Reel in steadily:** Retrieving your device at a steady, continuous speed is also important. Remember that your sonar is constantly scanning. This means if your device is stationary, the bottom will appear flat on your screen because the sonar is just repeatedly sending the same depth reading. If you start reeling in your sonar and the bottom remains flat on your display, then you know it really is a flat bottom. As the depth changes, for example if you are reeling in over a drop off, it is important to keep a steady speed. If you slow down your reeling speed, the slope will appear more gradual on your display. Speed up, and it will appear steeper. By maintaining a steady speed, you will get an accurate indication of how steep the depth change really is.
My Deeper

My Deeper is a personal account that will allow you get the most from Deeper’s range of products and services.

My Deeper account is absolutely free, and is mandatory to have in order to use the Deeper Sonar. You cannot use the FishDeeper app without an account.

How to create your My Deeper account

You can create an account in the Deeper App. You can register using your email, Google or Facebook. You can also register on the My Deeper page on our website (https://deepersonar.com) - follow the onscreen instructions to set up your account.

How to change your password

You can change your password on the My Deeper page on our website (https://deepersonar.com). Click on My Profile > Manage Account, and you will find the Change Password box on the bottom of the page.

What to do if you do not receive a verification or password reset email

When you register or reset your password, you should receive an email. You will need this email to complete your registration or password change. If you have not received an email, please check your spam/trash folder. If you still cannot find the email, please contact our support team at support@deeper.eu

How to delete your account

If you would like to delete your My Deeper account, please go to the My Deeper page on our website (https://deepersonar.com), choose Privacy Settings and click Delete My Account.

Deleting the account is non-reversible. Account is needed in order to use the Deeper sonar.
Viewing and analyzing your maps and scans

Once you are logged in, on the left side of the screen you will see a list of the locations where you have used your Deeper.

If you did not name the sessions, they will be listed as Untitled. Click on a location to view your data. Lakebook will show both sonar scans - on the bottom of the screen- and bathymetric mapping data - shown on the map. Bathymetry will only be shown if the scan was made in Boat Mode or Onshore GPS Mode.

You will see that your maps and scans are grouped by location (all scans are grouped by the water body ).

Once you have selected the location and sessions you want, you are ready to start analyzing them. What you see on screen will vary depending on the fishing mode you used for scanning at that location:

- For **Standard Mode** and **Ice Fishing Mode**, you will see a split screen. On the top half there is a map with pins marking the different locations where you scanned. The bottom half shows the scans themselves.

- For **Boat Mode** and **Onshore GPS**, you also see a split screen. This time the Bathymetric map you created is shown on the top half, and the scans that were recorded while you were mapping are shown on the bottom half.

**Scrolling your scans**

You can scroll through your scans from right to left. Use the scroll bar at the bottom of the screen or click on the scan and move your mouse.

For scans made using **Boat Mode** and **Onshore GPS mode**, you will notice that an arrow icon is shown on the map itself. This icon shows where the scanning data you are looking at now was made. As you scroll through your scan, the icon will move on the map. This enables you to locate exact points on the map where you marked a fish or located some good structure. You can also click on a particularly interesting point on the bathymetric map and see the sonar scan in that precise area.

You also have the option to add or remove fish icons from your scans.

**Instant depth and GPS data**

When analyzing your bathymetric maps, simply click on any part of the map you have created. A pop-up box will
appear with the GPS coordinates and depth at that exact spot.

**Other useful display tools**

- **Zoom**: In the top right of the screen there is a plus / minus icon. Use this for zooming in or out.

- **Map settings**: Below the zoom icon is a menu for changing your viewing settings. Click on this then select either Map (for a simple map display) or Satellite (for a satellite image). In the Map view you can add or remove terrain. In the Satellite view you can add or remove labels.

- **Distance measurement**: Below the map settings menu there is a ruler icon. Click this and you can now measure distances – just click one spot and then another, and you will get a distance reading between the two.

- **Removing menu from display**: If you want to see you map and scan in full, without the left hand menu bar displayed, simply press the x in the top right corner of the menu bar.

**Connection issues with the Deeper 3.0’s Bluetooth connection**

*Firstly, please bear in mind that the connection range of 40 m (130ft.) is the maximum range the Deeper 3.0 can achieve, and this range is only achievable in very good conditions and a smartphone / tablet that has a strong reception antenna. Conditions like bad weather, or using an incorrect attachment position, may reduce the connection range.*

First, check that you are holding your smartphone correctly and not covering its Bluetooth antenna. Positioning of the Bluetooth antenna may vary depending on the model of your smartphone / tablet. Do not keep your smartphone on the ground or in your pocket and remove any smartphone cases.

Make sure that your Deeper App is up to date. If you’re using the latest version of the app and it fails to connect to your Deeper even though you have successfully established a Bluetooth connection previously, please follow these steps:

Remove (Forget) Deeper from your smartphone’s Bluetooth devices.

1. Restart your phone;
2. Connect your Deeper to a charger;
3. Pair your Deeper with your smartphone again.

Please also note that it is only possible to connect to your Deeper using one smart device at a time. This means it will be impossible to connect to a Deeper Sonar if it is already connected to another phone or tablet. To switch off all current connections, simply take the Deeper out of the water, wipe it and wait for 5 minutes for the unit to turn off. Then, put it in the water again and connect.

If these tips do not solve the issue, please reach out to the Deeper Support team.

**Pairing with the mobile device**

Deeper sonar turns on automatically when it is in water or connected to a power source. When it’s out of water or not being charged, it switches off automatically to save battery life.

To use the Deeper sonar, you will need to Download the app from App Store or Google Play. You will see a register screen when you first launch the app. Only registered users will get all the features that application can offer.
Pairing with an Android mobile device:

- Be sure that your Deeper Sonar is switched on (either connected to a power source or in the water);
- Open Settings in your smartphone or tablet and turn on Wi-Fi;
- Find your Deeper sonar in the Wi-Fi devices list and click to pair it;
- When you are asked for the password, enter 12345678
- Turn Off the Smart Network Switch function (if available on your device)

Your Deeper CHIRP is now connected with your mobile device - you might see Internet may not be available displayed, or something similar. Don’t worry, this is normal. It simply means that your mobile device’s Wi-Fi connection is now being used for your Deeper sonar and not the internet.

Pairing your Deeper CHIRP with an iPhone or iPad

If you use an iPhone or iPad, follow these steps:

- Be sure that your Deeper Sonar is switched on (either connected to a power source or in the water);
- Open Settings in your mobile device, then open Mobile Data and make sure that the Wi-Fi Assist function is turned off. This is important because when this function is active, the connection with your Deeper sonar may be unstable.
- Then open Settings in your mobile device, then Wi-Fi and turn it on.
- Find your Deeper PRO or PRO+ in the list of available Wi-Fi networks and click to pair it.
- When you are asked for the password, enter 12345678
Your Deeper CHIRP is now connected with your iPhone or iPad - you might see Internet may not be available displayed, or something similar. Don’t worry, this is normal. It simply means that your mobile device’s Wi-Fi connection is now being used for your Deeper sonar and not the internet.

You can try your sonar at home, but you probably won’t see fish accurately

If you put your Deeper CHIRP in a fish tank, cup, bucket, bathtub, or similar container at home you will be able to turn the device on and pair it with your mobile device. But most likely the device won’t be able to scan properly - you will probably just see an empty screen and the status message: Too shallow or too deep.

If your CHIRP is set to Narrow CHIRP (7°), you may even see “phantom” fishes and other strange readings on the screen.

This is normal, Deeper sonar is designed for scanning in wide open waters like rivers, lakes, and the sea. In small, shallow and enclosed waters the sonar tries to scan, but receives too many sonar returns from the bottom and walls of your tank and cannot make an accurate reading. Read more about How Sonars Work

Standard mode. Detailed imaging (PRO series)
**Bottom:** When set to detailed imaging, your Deeper can help you determine whether the bottom is hard or soft. When the sonar pulses sent from your Deeper are reflected by the bottom, a hard bottom will return a stronger signal than a soft bottom. On your smartphone or tablet screen, the bottom may be displayed as: orange (hardest bottom), brown (medium) and black (softest). The bottom of the water will always give the strongest signal return of any object; therefore, it will have the most intensive color. The bottom is shown as a continuous, intensely colored line running across the bottom of the screen.

**Second sonar return:** You may also see a second sonar return: this is caused when the sonar signal bounces between the bottom and the surface of the water and back again. Hard bottoms will show a strong second return, while soft bottoms will show a very weak one or none at all.

**Fish Icon:** Fish Icons are displayed in three different sizes. The classification of fish by size depends on many variables, with weight being only one of them. This means Fish Icons do not always accurately reflect an actual fish’s size. If you want to judge more accurately the fish’s actual size, you should choose *Detailed Smart Imaging* and untick *Fish Icons*. With these settings you can judge quite accurately the size of a fish, although identifying the fish can be more difficult at first. Read more on this topic [here](#).

**Water surface:** Along the top of the screen, you will see a blue water surface line with a grouping of intense colors. This area is surface clutter, which can be caused by waves or other sonar interference on the surface of the water.

**Weed:** Weed beds and vegetation are shown in green.

**Schools of fish:** Deeper sonars will clearly show schools of bait fish, which will be represented as clouds of different shapes and sizes. Their exact appearance will depend on the number of fish, and the speed of your boat if you are trolling.

**Standard mode. Detailed imaging (CHIRP)**
**Bottom**: When set to detailed imaging, your Deeper can help you determine whether the bottom is hard or soft. When the sonar pulses sent from your Deeper are reflected by the bottom, a hard bottom will return a stronger signal than a soft bottom.

When using Day screen color mode, the bottom may be displayed as: yellow (hardest bottom), red (medium) and blue (softest). The bottom will always give the strongest signal return of any object; therefore, it will have the most intensive color. The bottom is shown as a continuous, intensely colored line running across the bottom of the screen.

**Second sonar return**: You may also see a second sonar return: this is caused when the sonar signal bounces between the bottom and the surface of the water and back again. Hard bottoms will show a strong second return, while soft bottoms will show a very weak one or none at all.

**Fish Icon**: Fish Icons are displayed in three different sizes. The classification of fish by size depends on many variables, with weight being only one of them. This means Fish Icons do not always accurately reflect an actual fish's size. If you want to judge more accurately the fish's actual size, you should choose Detailed Smart Imaging and untick Fish Icons. With these settings you can judge quite accurately the size of a fish, although identifying the fish can be more difficult at first. Read more on this topic here.

**Water surface**: Along the top of the screen, you will see a blue water surface line with a grouping of intense colors. This area is surface clutter, which can be caused by waves or other sonar interference on the surface of the water. Surface clutter is the blind zone, where the sonar will not detect any fishes or underwater objects.

The length of surface clutter depends the beam angle and frequency used. The higher the frequency – the smaller the surface clutter is, and the less depth Deeper will need to operate.

When using Narrow CHIRP beam (675 kHz), surface clutter zone will be stretching down to 0.15m (0.5 ft) from the surface of water. No fish or underwater objects will be detected in that area. Deeper sonar will display “too shallow or too deep” error message if the actual depth of water is less than 0.15m (0.5 ft).

Mid CHIRP (290 kHz) will have a surface clutter zone of 0.6m (2 ft) and will not detect any fishes or underwater objects in that area.

Wide CHIRP (100 kHz) will have a surface clutter zone of 0.8m (2.6 ft) and will not detect any fishes or underwater objects in that area.

**Weed**: Weed beds and vegetation are shown in green.

**Schools of fish**: Deeper sonars will clearly show schools of bait fish, which will be represented as clouds of different shapes and sizes. Their exact appearance will depend on the number of fish, and the speed of your boat if you are trolling.
Pairing with the mobile device

Deeper sonar turns on automatically when it is in water or connected to a power source. When it’s out of water or not being charged, it switches off automatically to save battery life.

To use the Deeper sonar, you will need to Download the app from App Store or Google Play. You will see a register screen when you first launch the app. Only registered users will get all the features that application can offer.

Pairing with an Android mobile device:

- Be sure that your Deeper Sonar is switched on (either connected to a power source or in the water);
- Open Settings in your smartphone or tablet and turn on Wi-Fi;
- Find your Deeper sonar in the Wi-Fi devices list and click to pair it;
- When you are asked for the password, enter 12345678
- Turn Off the Smart Network Switch function (if available on your device)

Your Deeper PRO or PRO+ is now connected with your mobile device - you might see Internet may not be available displayed, or something similar. Don’t worry, this is normal. It simply means that your mobile device’s Wi-Fi connection is now being used for your Deeper sonar and not the internet.

Pairing your Deeper PRO or PRO+ with an iPhone or iPad

If you use an iPhone or iPad, follow these steps:

- Be sure that your Deeper Sonar is switched on (either connected to a power source or in the water);
- Open Settings in your mobile device, then open Mobile Data and make sure that the Wi-Fi Assist function is turned off. This is important because when this function is active, the connection with your Deeper sonar may be unstable.
- Then open Settings in your mobile device, then Wi-Fi and turn it on.
- Find your Deeper PRO or PRO+ in the list of available Wi-Fi networks and click to pair it.
- When you are asked for the password, enter 12345678

Your Deeper PRO or PRO+ is now connected with your iPhone or iPad - you might see Internet may not be available displayed, or something similar. Don’t worry, this is normal. It simply means that your mobile device’s Wi-Fi connection is now being used for your Deeper sonar and not the internet.

You can try your sonar at home, but you probably won’t see fish accurately
If you put your Deeper PRO or PRO+ in a fish tank, cup, bucket, bathtub, or similar container at home you will be able to turn the device on and pair it with your mobile device. But most likely the device won’t be able to scan properly – you will probably just see an empty screen and the status message: **Too shallow or too deep**.

This is normal, Deeper sonar is designed for scanning in wide open waters like rivers, lakes, and the sea. In small, shallow and enclosed waters the sonar tries to scan, but receives too many sonar returns from the bottom and walls of your tank and cannot make an accurate reading. Read more about [How Sonars Work](#).

### Pairing with a phone or tablet

There’s no power button on your Deeper START: it turns on automatically when it is in water or connected to a power source. When it’s out of water or not being charged, it switches off to save battery life.

*Never put your Deeper in water when it is connected to the charger cable! This could damage the device and any damage will not be covered by the warranty.*
Pair your Deeper START with an Android mobile device

If you use an Android smartphone or tablet, follow these steps:

- Be sure that your fishfinder is switched on (either connected to a power source or in the water);
- Open Settings in your mobile device and turn on Wi-Fi Connection;
- Find your Deeper START in the list of available Wi-Fi networks and click it.

Your Deeper START is now connected with your mobile device – you might see Internet may not be available displayed, or something similar. Don’t worry, this is normal. It simply means that your mobile device’s WiFi connection is now being used for your Deeper START and not the internet.
Pair your Deeper START with an iPhone or iPad

If you use an iPhone or iPad, follow these steps:

- Be sure that your fishfinder is switched on (either connected to a power source or in the water);
- Open **Settings** in your mobile device, then open **Mobile Data** and make sure that the **Wi-Fi Assist** function is turned off. This is important because when this function is active, the connection with your Deeper START may be unstable.
- Then open **Settings** in your mobile device, then **Wi-Fi** and turn it on.
- Find your Deeper START in the list of available Wi-Fi networks and click it.

Your Deeper START is now connected with your iPhone or iPad - you might see **No Internet Connection** written. Don’t worry, this is normal. It simply means that your mobile device’s WiFi connection is now being used for your Deeper START and not the internet.
You can try your fishfinder at home, but you probably won’t see fish accurately

If you put your Deeper START in a fish tank, cup, bucket, bathtub, or similar container at home you will be able to turn the device on and pair it with your mobile device. But most likely the device won’t be able to scan properly – you will probably just see an empty screen and the status message: **Too shallow or too deep**.

Don’t worry, this is normal. Your Deeper START is a sensitive sonar device that is designed for scanning in wide open waters like rivers, lakes, and the sea. In small, shallow and enclosed waters the sonar tries to scan, but receives too many sonar returns from the bottom and walls of your tank and cannot make an accurate reading. Just try it at a real fishing spot and you’ll get a real result!
Deeper Smart Sonar PRO+
Technical Specifications
Weight: 3.5oz / 100g  
Size: 65mm / 2.5in in Diameter  
Sonar Type: Dual Beam  
Frequency (Beam cone): 290 kHz, 15° and 90 kHz, 55°  
Depth Range Max/Min: Max 260ft / 80 m, Min 2ft / 0.5m  
Sonar Scan rate: Up to 15 scans per second  
Operating Temperature: -20°C to 40°C / -4°F to 104°F  
Internal Battery: Lithium Polymer, 3.7V Rechargeable, 850mAh  
Power Supply input: Micro USB B type, 5V DC, 450mA max  
(for charging battery)  
Power Adapter Input: AC 110V/240V. Output Micro USB, 5V 450mAh  
Wireless connection type: Wi-Fi  
GPS Positioning: L1 48 channel GPS receiver, high 3m@50% accuracy  
Casting Range: Up to 330ft / 100m. Range depends on the OS and smartphone model  
Battery Life: Up to 6 hours  
Charging Time: 2 hours  

On the top right corner, you will find the Status Bar. Status Bar shows the most essential information from left to right: status of your Deeper sonar, time, battery life and so on.

**Current Status** (left side of the status bar) – shows the current status of your Deeper sonar:

- **Charging** - Your sonar is plugged in to a power source and the battery is charging.
- **Connected** - Your Deeper Sonar is successfully connected to your mobile device.
- **Not Connected** - The connection between your Deeper Sonar and your mobile device has not been established or was interrupted.
- **Out of water** - Your sonar device is out of the water but is still connected to your mobile device.
- **GPS found** – The GPS connection of your Deeper is accurate enough for bathymetric mapping. This status appears only in On-shore GPS mode (PRO+ or CHIRP+ models).
- **Looking for GPS** – The GPS connection of your Deeper is being established. This status appears only in On-shore GPS mode (PRO+ or CHIRP+ models). Click here for the tips on how to increase the GPS connectivity.
- **Too shallow or too deep** - Your sonar is unable to get an accurate depth reading. The most common cause of this is
that the water is too shallow or too deep. Deeper sonars have depth requirements for accurate scanning:

**Deeper PRO, PRO+**

Narrow beam min depth 2ft / 0.5m; Wide beam min depth 4.3ft / 1.3m

Max depth (both beams) 260ft / 80m

**Deeper START**

Min depth 4.3ft / 1.3m; Max depth 160ft / 50m

**Deeper 3.0**

Narrow beam min depth 2ft / 0.5m; Wide beam min depth 4.3ft / 1.3m

Max 130 ft / 40 m

**Deeper CHIRP+**

Min depth:

5.9 in / 0.15 m. Narrow CHIRP
23.6 in / 0.6 m. Medium CHIRP
31.4 in / 0.8 m. Wide CHIRP

Max depth (all beams):

328 ft. / 100 meters

This message can also appear if the sonar has tilted as it is being reeled in or trolled, which results in it not scanning straight down (click here for instructions). It will also be shown if you are scanning in contained waters like bathtubs or swimming pools.

**Time:** Shows current time.

**Device battery:** Shows the battery charge percentage of your smart device and the Deeper sonar.

**Water temperature and movement speed:** Shows water temperature and boat movement speed, if your sonar is set to Boat mode (not supported in Deeper Start model)

**Settings** – opens sonar settings menu.

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**Sharing, printing and downloading**

Select any scan and click on the expandable menu (three dots):

- **Printing**: will allow you to print out the map.

- **Bathymetry**: Auto and Fast displays will use the exact mapping data you gathered to fill in estimated depths for sections nearby. The Detailed option will show only the exact data that your Deeper gathered.
- **Sharing**: The third icon on the menu is for sharing. Click this and a unique link will be created. Then just copy the link and send it to anyone you want to share this map or scan with. Please note that only bathymetric map can be shared at the moment, and it is not possible to share the sonar scan data.

- **Downloading**: The fourth icon is for downloading your data. Click this icon and you will get a download of all your mapping data in CSV format. You can then use this raw data in other mapping applications and programs.

**It is only possible to export data that was created in Boat or On-shore GPS modes. Recordings made using Standard and Ice Fishing modes contain only the sonar data, which cannot be exported.**

### Inaccurate sonar readings

Sometimes the Deeper App displays incorrect depth or inaccurate sonar readings, like these:

- The Depth reading is shown as much deeper than in reality;
- Sonar noise (clutter of small dots or lines on the screen of the sonar);
- “Too shallow or too deep” message.

Most often, the reason behind these inaccurate readings is the fact that the sonar is moving sideways. This may occur, for example, just after the Deeper hits the water after being cast out, when there are heavy waves, or when it is tilting because it is being reeled/trolled too fast. The Deeper App will start displaying the correct depth as soon as unit stabilizes in the water.

The PRO, PRO+ and 3.0 require at least 2ft / 0.5 m minimum depth in order to operate when using the wide beam, and at least 4.3 ft / 1.3 m when using the narrow beam. The Deeper START requires 2ft / 0.5 m.

For the PRO, PRO+ and 3.0, using the correct attachment position is essential to ensure the stability of the device when it is being reeled back. When fishing from a dock or bridge, screw your attachment bolt to the middle attachment point. Use the bottom one if you're fishing from the shore. It is important that your Deeper does not tilt when being reeled in / trolled. When it tilts it scans the water surface rather than the bottom, resulting in inaccurate sonar readings and connectivity issues.
If these tips do not solve the issue, please reach out to the [Deeper Support team](#).

# Attaching for shore fishing

To set up for shore fishing with your Deeper, follow these steps:

- Ensure the top cover is screwed on tightly, with the Water Proof marks perfectly aligned. To screw the top cover on, turn it anti-clockwise until it dips, then turn it clockwise until it is screwed on tightly.
- Take an attachment bolt and securely tie it to your fishing line.
- Now screw the attachment bolt firmly into the correct attachment point. If you are fishing from a dock or pier, use the middle attachment point. If you are fishing from the shore, use the bottom attachment point.

![Diagram of Deeper setup](image)

- Please only use 1 attachment bolt – the second bolt that comes in the box is a spare. Please ensure you use the correct attachment point. Using the wrong attachment point will cause the device to tilt in the water, affecting connectivity and the accuracy of the sonar readings.

Before you cast out your Deeper sonar, it is very important to ensure it is correctly attached to your line and rod. Every time you attach your Deeper sonar, please be careful to attach it correctly and check these points:

1. Is your line passing correctly through the tip top (the last and smallest line guide on your rod)? If the line is looped or knotted here, the line can break when casting and you could lose your sonar.
2. Are you using good quality line that is not worn or frayed?

Is the line firmly tied to the attachment bolt on your Deeper? This is important because your sonar could be lost if it is not tied securely.
Shore fishing in different conditions - Piers and docks, river fishing

You can use your Deeper Sonar for fishing from the shore, from piers, docks and bridges (including in salt water), and on rivers. But you will need to adjust your set up and approach.

For casting from docks, piers and bridges

Make sure you attach your line to the middle attachment point of the 3 attachment points on your Deeper (this does not apply to the Deeper START, which only has one attachment point). Using one of the other attachment points will result in the sonar sitting in the water at an incorrect angle.

Deeper Sonars are suitable for use in salt water, so go ahead and use yours off a dock in calm conditions. If the sea is rough, this may affect connectivity to your smartphone.

For casting in rivers

Deeper Sonars are suitable for finding depth levels and features in rivers, provided they are not very fast flowing. Use the same attachment points you would use for lake fishing (bottom attachment point from the river bank, middle attachment point from a bridge or pier).

The most effective use of your Deeper Sonar when river fishing is for finding depth and features - when the currents are fast, accurately marking fish can be difficult. Using the current to drift your Deeper Sonar down the river is often an effective way to cover areas of your river. If you are using a Deeper PRO+, we recommend using the Onshore GPS mode (Settings > Onshore GPS), as this will give enable you to map the depth of the river as your sonar drifts.

If you are using the Deeper PRO or PRO+, it is recommended to use Narrow beam (290 kHz) for higher accuracy of the mapping. If you are using the Deepe CHIRP, we recommend using High CHIRP or Mid CHIRP for higher accuracy of mapping.
Attaching for shore fishing

To set up for shore fishing with your Deeper, follow these steps:

- Ensure the top cover is screwed on tightly, with the Water Proof marks perfectly aligned. To screw the top cover on, turn it anti-clockwise until it dips, then turn it clockwise until it is screwed on tightly.
- Take an attachment bolt and securely tie it to your fishing line.
- Now screw the attachment bolt firmly into the correct attachment point. If you are fishing from a dock or pier, use the middle attachment point. If you are fishing from the shore, use the bottom attachment point.

ⓘ Please only use 1 attachment bolt – the second bolt that comes in the box is a spare. Please ensure you use the correct attachment point. Using the wrong attachment point will cause the device to tilt in the water, affecting connectivity and the accuracy of the sonar readings.

Before you cast out your Deeper sonar, it is very important to ensure it is correctly attached to your line and rod. Every time you attach your Deeper sonar, please be careful to attach it correctly and check these points:

1. Is your line passing correctly through the tip top (the last and smallest line guide on your rod)? If the line is looped or knotted here, the line can break when casting and you could lose your sonar.
2. Are you using good quality line that is not worn or frayed?
3. Is the line firmly tied to the attachment bolt on your Deeper?

This is important because your sonar could be lost if it is not tied securely.
Attaching and connecting

Attach your Deeper START carefully and securely

Before you cast out your fishfinder, it is very important to ensure it is correctly attached to your line and rod. Every time you attach your Deeper START, please be careful to attach it correctly and check these points:

1. Is your line passing correctly through the tip top (the last and smallest line guide on your rod)? If the line is looped or knotted here, the line can break when casting and you could lose your fishfinder.
2. Are you using good quality line that is not worn or frayed?
3. Is the swivel clip fully and correctly closed? This is important because your fishfinder could be lost if the clip is not closed correctly.
Switch on your Deeper for scanning

Launch the Deeper app in your smartphone or tablet, then put your fishfinder in the water close to where you are (no further than 2m / 6ft). Your Deeper START will automatically turn on and connect with your mobile device.

If your Deeper START is in the water but doesn’t connect with your mobile device (in the Deeper app you will see the status message Deeper is disconnected at the bottom of the screen), please follow these steps:

1. Open settings in your mobile device and make sure that Wi-Fi is on.
2. Make sure your Deeper START’s battery is charged. When you’re out on your fishing trip you can connect your fishfinder to a car charger or a portable power bank and check which light shows. If the battery is empty, charge it!
3. Check the temperature. The Deeper START has an operating range of 0°C to 40°C / 32°F to 104°F. Please note that water and air temperature may be different, and here water temperature is most important.
4. Make sure you are using a compatible mobile device and you are using the latest version of the app.
5. If the devices still don’t connect, contact our support.
Basics for Boat and Kayak fishing with Deeper

The Deeper PRO/PRO+/CHIRP are suitable for trolling from your kayak or boat using the Deeper Flexible Arm Mount. You can also cast these devices out from your vessel to scan hard-to-reach spots or to avoid trolling over.

Trolling

Once you have mounted your Deeper PRO/PRO+/CHIRP to your kayak or boat using the Deeper Flexible Arm Mount, you are ready to troll. Trolling at higher speeds (for example, 3.5 mph / 3 kmph) is suitable for getting general depth readings. Slow down to 2mph / 3kmph or slower for accurate fish finding and detailed scanning of underwater structure.

Mapping

The FishDeeper app uses the GPS in your smartphone or tablet to create bathymetric (underwater contour) maps as you troll. For this function, select boat mode (Settings > Boat mode). You will get a split screen display showing both your mapping and your sonar readings.

If you are using the Deeper PRO or PRO+, it is recommended to use Narrow beam (290 kHz) for higher accuracy of the mapping. If you are using the CHIRP, we recommend using High CHIRP or Mid CHIRP for higher accuracy of mapping.

Scanning

For scanning, you can continue in Boat Mode (the split screen display will show you scans as well, and you can adjust how much of the screen is taken up by the map) or switch to Standard Mode for full screen scanning display. Don’t forget there are 3 color palettes to choose from (Settings > Sonar > Screen Color Mode).

Kasting og skanning
Kast Deeper CHIRP + til stedet du vil skanne (opptil 100 m / 330 ft unna) og sveiv det inn igjen. Når du sveiver sanse opp skanninger på smarttelefonen eller nettbrettet.

ⓘ Hold smarttelefonen / nettbrettet i en posisjon der det enkelt kan fange opp signalet fra ekkoloddet når du kaster ut og ruller inn Deeper-ekkoloddet. Hvis smarttelefonen / nettbrettet ligger på bakken eller i lommen, kan forbindelsen bli ustabil. Vi anbefaler at du bruker Deeper smarttelefonmontering for fiskestenger.

Med CHIRP + kan du også opprette kart over undervannstopografi mens du kaster. Følg disse trinnene:

1. Velg Landbasert GPS-modus (innstilling > ekkoloddmodus > Landbasert GPS).
2. Kast ut en kort avstand, og vent på at satellittikonet går fra blinkende oransje (søker) til grønt (GPS-tilkobling er etablert).
4. Vi anbefaler at du bruker middels eller brede CHIRP-stråler til batymetrisk kartlegging. Smal CHIRP-stråle kan gi unøyaktige avlesninger dersom Deeper er ustabil i vannet – for eksempel når det er bølger eller vind.


**Uploading your data to Lakebook™**

The maps and scans you create in the Deeper App will automatically sync with the Deeper cloud server. It takes 24
hours for the scans to be synced automatically. Once they are synced, you can access them on Lakebook™.

To check if a fishing session has been synced, go to History in the Deeper App. Here you will find a record of all your fishing sessions with your Deeper. If a session has been synced, it will have a cloud icon with a tick. If it has not been synced yet, the icon will be only the outline of a cloud with no tick. To sync any unsynced sessions, press the icon in the top right corner of the screen – a white cloud with an up arrow.

It can take up to one minute for new data to be added to Lakebook™ from the App. You should also refresh the Lakebook™ web page for the new data to be visible. You can read more about data synchronization here.

LED indicator and battery issues

If you are experiencing any issues with the charging of the device, please connect your Deeper PRO, PRO+ or 3.0 to a charger and check the color of the light indicator. This will show the status of the battery.

- A blinking orange light means that the battery is charging, and there are no issues. It takes roughly 2 hours to fully charge the battery from 0% to 100%
- A green light means that the battery is fully charged
- A blue light means that it is too cold to charge the battery. Lithium batteries cannot be charged at a temperature below 3°C (37.4°F).
- A white light means that the unit requires a firmware update. Make sure that your Deeper App is up to date, and then pair with your Deeper via the Deeper App while the unit is being charged. The firmware update will be initiated.

A red light or no light at all means that there may be an issue with the battery or the charging cable. Please try plugging the cable in and out for few times, as well as trying a different micro USB type B cable. If the problem persists, please contact Deeper Support.

Sonar settings

Sonar settings can be accessed by clicking the gear icon on the top right corner. This will open a menu with all available settings for your model of Deeper sonar. You can close the menu at any time by sliding it to the right.

Fishing mode lets you choose between 4 fishing modes: Standard, Ice fishing, Boat, and Onshore GPS. This setting is not available for Deeper START.

Sonar display - switch between Raw and Basic sonar display. Raw sonar display shows detailed sonar, without any filtering. Basic sonar display filters out the amount of information and shows only the basic data – bottom structure, depth, fishes. Deeper START has Basic sonar display enabled by default.
**Beam angle** - switch between the sonar beam angles of your Deeper sonar. **This setting is not available for Deeper START**

**Sensitivity** - controls how much detail is shown on the display and can be used to adjust the sensitivity of all sonar frequencies. If you use a high sensitivity, the sonar display will show everything, including small baitfish and floating debris in the water. When operating in very clear water or at greater depths, you should increase the sensitivity, so you can see even weaker returns that may be of interest. Decreasing the sensitivity eliminates clutter from the display, which can occur when the water is muddy. If the sensitivity is set too low, the display will not show a lot of sonar returns that could be fish. We recommend starting from 100% sensitivity and then gradually decreasing sensitivity until you get the best results. **This setting is not available for Deeper START**

**Show fish icons** - turn on/off special algorithms that interpret fishes and mark them with fish symbols on the screen.
**Fish size** – When Fish Icons are enabled, allows you to choose which fish size to show (Large/Medium/Small). You can choose which size to show by adjusting the slider. Selecting L/M/S will result in all 3 sizes being shown, L/M will show only large and medium sized fishes, while L setting will show only large fishes. **This feature will only work if Fish icons are enabled.**

**Show depth** – enables or disables depth readings that are displayed above or below fish icons. You can choose the distance from surface to the fish (Fish icon with arrow up) or distance from the bottom to the fish (Fish icon with arrow down). **This feature will only work if Fish icons are enabled.**

**Fish alarm** – enable fish alarms, that will make a sound alarm whenever a fish is detected. **This feature will only work if Fish icons are enabled.**

**Color palette** – allows you to choose the most convenient color palette for viewing your sonar data based on the environment, conditions and the time of day you are fishing. Alongside the Classic color palette, there are two other options – Day and Night - which can be used for the best viewing of your sonar readings in either bright sunny conditions (Day mode) or low light conditions (Night mode). **This setting is not available for Deeper START**

![Color palette](image)

The **Night Fishing** feature should be turned on when fishing at night or in low light conditions. With the Deeper START it can be activated immediately, whereas with the Deeper PRO, PRO+ and CHIRP models you will need to replace the standard cover with a **Deeper Night Fishing Cover** first. Night Fishing mode activates a blinking light that is only visible through a transparent cover.

**Deeper Smart Sonar CHIRP**

**TECHNICAL SPECIFICATION**
Material: ABS enclosure, Titanium inserts

Sonar type: 3 Frequency CHIRP
Narrow CHIRP 675 kHz (cone angle 7°)
Medium CHIRP 290 kHz (cone angle 16°)
Wide CHIRP 100 kHz (cone angle 47°)

Target separation:
1 cm. / 0.4 in Narrow Chirp
2.4 cm. / 0.94 in Medium Chirp
2.4 cm. / 0.94 in Wide Chirp

Depth Range: 15 cm. / 6 in – 100 m. / 330 ft

Sonar Scan Rate: Up to 15 / second

Sonar modes: Standard, Ice fishing, Boat

Operating temperature: -20°C to 40°C / -4°F to 104°F

Operating time:
Up to 6 hours

Charging technology: Fast charge
80% in 45 min.
100% in 75 min.

Internal battery: Lithium Polymer, 3.7V Rechargeable, 950 mAh

Power adapter (not included in the box, recommended): Input 110V/220V. Output Micro USB, 5V 2A

Connection Type: Wi-Fi

Connection Range: Stable connection up to 100 m. / 330 ft.

Color: Military Green

Casting and scanning
Cast your Deeper CHIRP to the spot you want to scan (up to 100 m / 330 ft away) and reel it back in. As you slowly reel back, you will see underwater scans shown on your smartphone or tablet.

When you cast and reel in your Deeper sonar, keep your smartphone/tablet in a position where it can easily pick up the signal from your sonar. If your smartphone / tablet is on the ground or in your pocket, the connection may be unstable. We recommend using the Deeper Smartphone Mount for rods.

**How to find fish using Detailed imaging mode?**  
**(PRO/PRO+/CHIRP)**

There are 2 ways fish are shown on the Deeper App. The easiest way to detect them is to turn on Fish Icons. Here, the app interprets the sonar readings, identifying some of them as fish. Fish Icons have 3 sizes - small, medium and large. Correctly identifying a fish and its size depends on many variables, with the weight of fish just one of them. Fish Icons are not the most accurate way to judge a fish’s size, because the algorithm could display one bigger fish when actually there are actually a few small fish. The most accurate way to judge fish size is to turn off Fish Icons. With Fish Icons switched off, fish will then be shown as an arch. There is a learning curve to this way of finding fish, and in the beginning it can seem confusing. But with practice you will be able to determine what is a fish and how big it is.

Here you can find an in-depth guide for this way of detecting fishes:

[Finding fish and underwater objects with PRO series](#)
Lots of small fish shown with and without fish icons

Fish arches show a few small fish next to each other, but the small size is due to a low sensitivity setting. In reality, the fish was much bigger.

Carp shown on the app and in reality

A car underwater
Casting and scanning

Cast your Deeper PRO or PRO+ to the spot you want to scan (up to 100 m / 330 ft away) and reel it back in. As you slowly reel back, you will see underwater scans shown on your smartphone or tablet.
When you cast and reel in your Deeper sonar, keep your smartphone/tablet in a position where it can easily pick up the signal from your sonar. If your smartphone / tablet is on the ground or in your pocket, the connection may be unstable. We recommend using the Deeper Smartphone Mount for rods.

With the PRO+, you can also create underwater topography maps as you cast. Follow these steps:

- Select Onshore GPS mode (Settings > Onshore GPS).
- Cast out a short distance and wait for the satellite status to change from “Looking for GPS” to “GPS found”
- When the status is changed to “GPS found”, cast to the spot you want to map, and reel in. The map on the Deeper App will fill in with color-coded depth data.

Please note it can take some time for the GPS system to pick up your position, especially if you have not used your device for some time. When making a series of casts, it is possible the GPS status will change back to “Looking for GPS” between casts. Please wait for the status to change back to “GPS found”. If the status doesn’t change to “GPS found” for a long time, this can be caused by weather conditions, the surrounding landscape, the configuration of the satellites themselves, or if the signal from your Deeper Sonar is obstructed by something.

**Casting and scanning**

Cast your Deeper START to the spot you want to scan and reel it back in. As you reel back, look at the underwater
When you cast and reel in your Deeper START, keep your smartphone/tablet in a position where it can easily pick up the signal from your fishfinder. If your smartphone/tablet is on the ground or in your pocket, the connection may be unstable. We recommend using Deeper Smartphone Mount for rods.

Connection and playback
Connection button is found on the bottom right corner of the main screen. This button will serve as a main tool for controlling the connection and sonar data playback of your Deeper sonar.

Press this button to establish a connection with your Deeper sonar (your Deeper sonar needs to be turned on: either placed in the water or connected to a charger).

Once you are connected to your Deeper sonar, the Connection button will change to Start/Pause button.

Press Start to beging your scanning session. If you click the Pause button, your scanning will be paused and the Deeper sonar will go into a Power save mode:

Once in Power save mode, Wi-Fi connection with your Deeper is still active, but the sonar will not record any data, thus preserving the battery. You can resume the scan at any time.

Rewind

When your Deeper sonar is connected and scanning, you can rewind the scan by pressing anywhere on the screen and scrolling it to the right. This is helpful in case you’ve missed something and wish to go back and review it again.

When rewinding, a button with an arrow will appear - you can press in order to go back to the most recent sonar data.
App issues

Issues with the app may occur if you’re using an outdated version of the app. Issues may include:

- Incorrect depth measurements;
- Reduced functionality of app features;
- Connection issues with your Deeper.

There are two ways to ensure that you have the latest version of the Deeper App. The first is to set your phone to automatically download and update apps whenever new versions of the app come out. Another is to check for updates manually by going to the Google Play Store or App Store and searching for the Deeper App. You will then see whether an update is available or not.

If you have the latest version of our app but are still experiencing issues, please contact the Deeper support team.

Deleting your data on Lakebook™

At the moment, there is no option to delete scans or maps using the Lakebook directly.

In order to delete data from Lakebook, you would need to go to the Deeper app -> History.

When there, press and hold the scan or map you wish to delete (or swipe it to the left if you're using an iOS device). Delete option will appear, and you will need to select "Delete from everywhere". This will result in the scan being deleted both form the phone and Lakebook.

Please note that after deleting the scan or map using this method, it will be deleted with no option of recovery.

Attaching for kayak, float tube or boat fishing

To set up for boat fishing with your Deeper, follow these steps:

- Ensure the top cover is screwed on tightly, with the Water Proof marks perfectly aligned.
- Take your Deeper Flexible Arm or Flexible Arm 2.0 and place the security strap on it.
- Mount your Deeper Sonar to your Flexible Arm Mount:
  - If you are using a Deeper Flexible Arm, screw your Deeper sonar onto the Flexible Arm Mount using the top attachment point. Then attach the flex arm to your vessel using the crab clamp – for optimal security, clamp to a circular object.
If you are using a Deeper Flexible Arm 2.0, first place the plastic node of the flexible arm into the bottom attachment point of your Deeper sonar, then firmly tighten the screw into the middle attachment point. Then attach the G-Clamp to any part of your boat which is 70mm / 2.7” thick or less.

- Secure the security strap to your vessel.
- Adjust the flexible column to position your Deeper Sonar so it is semi-submerged in the water.

Basics for Ice Fishing

The Deeper PRO/PRO+ and CHIRP are both suitable for ice fishing – they operate at temperatures down to -20°C / -4°F. The Deeper START is not designed for ice fishing – it operates at temperatures down to 0°C / 32°F. When you are using your Deeper for ice fishing, enable the Ice Fishing Mode (Settings > Ice Fishing). Enabling this setting gives you the best display options for ice fishing and automatically configures the best sonar settings for ice fishing.

Drill and Drop

Once you have drilled your ice hole, you can simply drop your Deeper Sonar in to start scanning. It is not necessary to attach a line to your Deeper, although you may choose to do so for easy removal from the ice hole – in this case, use the top attachment point for attaching a line. Your Deeper will switch on automatically once in the water, then sync your smartphone and it will begin scanning. Please note, in very cold conditions ice can build up on the two electric nodes on the bottom of your Deeper, and this can prevent the device from switching on. Simply clean off the ice from the two nodes and drop your Deeper back into the ice hole and this should solve the problem.

Ice Thickness

Deeper Sonars float on the surface of the water (rather than being submerged like other ice flashers). This means that when the ice is very thick, the sonar may not scan correctly because the sonar cone hits the sides of the ice hole and the sonar pulses are reflected back. To avoid this, there are two things you can do:

- drill larger ice holes if the ice is very thick. This will reduce the chance of the sonar cone hitting the side of the ice hole
- ensure your Deeper Sonar is positioned directly in the center of the ice hole
- drill vertical ice holes, keep the ice hole clean from ice and snow
- if you are using CHIRP, make sure you are using Narrow CHIRP beam (7°)

**Battery**

You should be aware that in temperatures below freezing, the battery of both your Deeper device and your smartphone / tablet will drain faster. Here’s what you can do to manage this:

**Deeper Battery**

1. Ensure the battery is fully charged before any trip.
2. Remove your Deeper fish finder from the water when you are not using it, and keep it insulated (for example, inside the neoprene pouch that comes with the Deeper, or inside your pocket).
3. Have a power bank on hand to charge your Deeper during your trip. Please remember that the Lithium ion battery in your Deeper can only be charged in temperatures of 3°C / 37.4°F or higher (when you start charging your Deeper, a blue LED will show if the conditions are too cold for charging). Charging in your car or in a warmed ice shanty are good options.

**Smartphone Battery**

1. Ensure your smartphone / tablet is fully charged before your trip.
2. Use the Deeper Winter Smartphone Case to insulate your smartphone while using it, thus preserving its battery life.
3. Have a power bank on hand to charge your smartphone during your trip.

**Find the right spot**

Judging if you are fishing at the right spot is straightforward. Just drop your Deeper into the ice hole. The depth will be shown in the center of the circular flasher display and in the top right corner of the display screen. You can also look for vegetation using the traditional sonar section of the display screen, where it will be shown in green. This information about vegetation and depth can help you to decide if this is a good place to fish.

Drilling a grid of ice holes is also an effective approach. Once you have drilled your grid, you can drop your Deeper into each hole to monitor how the depth changes and locate the best spot.

Finally, if you have been able to map an area in summer using your boat / kayak, or from the shore with your Deeper PRO+, you can use the map to return to the best spots in hard water season.

**Marking fish and tracking your lure**
The ice fishing display on the Deeper App gives you a number of ways to locate fish, track your lure and see how the fish respond to your actions. On the left-hand side is the Traditional Circular Flasher display, in the middle right-hand side there is the Sonar Display, and on the far right-hand side there is the Vertical Flasher.

- **Sonar Display:** This is the same as the Standard Display for scanning from the shore. The blue band shown at the top is the ice, the orange band lower down is the bottom, and any objects shown in between are either fish or your lure. You can adjust the sensitivity of this display in the left-hand menu and change the color palette to day or night palettes (Settings > Sonar > Screen Color Mode).

- **Traditional Circular Flasher:** This display is exactly like a traditional ice flasher. In the center you will see the depth and surface water temperature displayed. Around the side is the actual flasher. At the very top, you will see a band of blue/grey color – this is the ice itself. Then follow the display clockwise until you see a brown/orange band of color – this is the bottom. Anything displayed in between the ice and the bottom will be either your lure or a fish. These will show as bands of green/yellow color.

- **Vertical Flasher:** On the right-hand side of the display screen is the Vertical Flasher. Here all the sonar readings are shown in white, on a black background. At the very top you will see a blob of white that is moving slightly – this is the ice. Then at the bottom of the display there will be a thick white shape that tapers off at the bottom – this is the bottom. Any lure, jig or fish will be shown in between these two as moving white bands. The size and thickness of the band gives you an indication of the size of the object.

- **Zoom:** To enable the zoom, open the left-hand menu. At the top you will see two options – Detailed and Zoom. Choose the Zoom display. You will now see two red lines shown on the vertical flasher (this defines the area that will be zoomed in on) and two more red lines with depth readings where the Sonar Display had previously been (this is where the zoomed in display is shown).

Follow these steps to set the zoom to the depth you wish to monitor:

1. **Set the size of the area you want to zoom in on.** To do this, place your thumb somewhere on the lower part of the Vertical Flasher display, and your index finger somewhere in the upper part of the vertical flasher display. To make the zoomed area larger, move your thumb and finger apart – you will see the red lines move apart. To make the zoomed area smaller, move your thumb and finger together – you will see the red lines move together.

2. **Move the zoomed area to the part of the water column you want to monitor.** To do this, just place your finger somewhere in between the two red lines on the Vertical Flasher, then, keeping your finger pressed to the screen, move your finger up or down. You will see that the area you are zoomed in on moves with your finger – the depth readings on the left will automatically change. You can monitor these to make sure you are in the correct depth range. For example, if you want to zoom in on the area 20 ft. / 6m and below, drag the area down until the depth reading of the top red line shows 20 ft / 6m.

3. **Monitor underwater action in detail.** Now any objects that appear within the zoomed area you have set will be shown in detail to the left of the Vertical Flasher. This is enables you to track any targets accurately - especially in schools of fish - and to monitor in real time how the fish react to your lure.

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**Map and GPS Ice Hole Marking**
The Ice Fishing display also has a mapping function (to ensure this function works, make sure you are a registered user and have downloaded the Offline Maps for your state or country). You will see a map icon on the left-hand side of the display. If you click this, a map will open showing your current location. When you drop your Deeper into an ice hole, that location will automatically be marked onto your map and saved. As you fish more ice holes, these will also be added to your map. If you click on one of these locations, it will automatically show you the depth at that spot. After your fishing session, you can go to the History section of the app and click on your fishing session. Here your map with all your ice holes will be displayed. Then just click on an ice hole and you will see your scans for that location, plus the water temp, date and time from your scanning session.

Please note the Deeper App uses your smartphone or tablet’s GPS for this function (no internet connection is required). For accurate location marking, please make sure your smartphone is within 3 ft / 1m of the ice hole the first time you drop your Deeper in.

**Fishing multiple ice holes**

With their wireless range of 330ft, the Deeper PRO/PRO+/CHIRP enable you to monitor an ice hole at distance. This means you can be fishing one ice hole and have your Deeper in another, so you can monitor the activity in that hole as well.

**Sonar interference from other flashers**

If there are other ice flashers being used close to your ice hole, you may experience sonar interference from these units. This can affect the accuracy of the sonar readings you get from your Deeper. When possible, try to keep as much distance as possible from other ice flasher users.

**Ice Fishing Mode (PRO/PRO+/CHIRP)**
Deeper Sonars are cold resistant and engineered to perform in winter conditions (this does not include the Deeper START).

The standard screen in Ice Fishing Mode has a traditional ice fishing flasher display for monitoring conditions under the ice. And the Amplitude Scope Mode (vertical flasher) displayed on the right-hand side lets you track the movement of even the smallest lure or bait in real time.

The split screen display shows both Regular Sonar and Ice Fishing Flasher displays on one screen. Seeing the data from you Deeper transmitted in real-time enables you to follow every underwater movement, including your lure or bait motion and the location of any fish.

You can also turn on the Zoom Feature, found in the detailed settings in the left-hand menu.

The Zoom feature allows you focus in on specific objects on the vertical flasher, and you can enlarge or reduce the zoomed area. This gives you even better real-time lure and fish tracking. This is an extremely accurate tool for monitoring and responding to any underwater activity. If you spot a fish, use the Zoom feature to maximize observation then target it with your lure or bait.

GPS Ice Hole Marking. The Deeper App will record and save all the ice holes you fish directly onto a map with the GPS Ice Hole Marking feature. For each new location you fish, a new spot will be marked on your map. Any data your Deeper picks up at that location will also be stored. So, you’ll end up with a detailed record of every hole you fished, which you can use again next time you are fishing that site (the map is available offline). This feature uses the GPS in your phone or tablet, so make sure your device is as close as possible to the ice hole you’re fishing when you first put the Deeper in; after a couple of seconds your location will be marked, and you can move your phone away.

**Attaching for kayak, float tube or boat fishing**
To set up for boat fishing with your Deeper, follow these steps:

- Ensure the top cover is screwed on tightly, with the Water Proof marks perfectly aligned.
- Take your Deeper Flexible Arm or Flexible Arm 2.0 and place the security strap on it.
- Mount your Deeper Sonar to your Flexible Arm Mount:
  - If you are using a Deeper Flexible Arm, screw your Deeper sonar onto the Flexible Arm Mount using the top attachment point. Then attach the flex arm to your vessel using the crab clamp – for optimal security, clamp to a circular object.
  - If you are using a Deeper Flexible Arm 2.0, first place the plastic node of the flexible arm into the bottom attachment point of your Deeper sonar, then firmly tighten the screw into the middle attachment point. Then attach the G-Clamp to any part of your boat which is 70mm / 2.7” thick or less.

- Secure the security strap to your vessel.
- Adjust the flexible column to position your Deeper Sonar so it is semi-submerged in the water.

Please always use the security strap when using the Flexible Arm or Flexible Arm 2.0. Do not fully submerge your Deeper Sonar – it will be unable to send Wi-Fi signals back to your phone.

Quick guide (START)

Maksimiziranje povezivosti

Svi Deeper uređaji stvaraju svoj vlastiti Wi-Fi signal koji se koristi za slanje podataka sa sonara na vaš pametni telefon ili tablet. Nije potreban internet ili signal mobilne mreže. Imajte na umu da se domet veze od 100 m za PRO/PRO+/CHIRP+, 50 m za START, 40 m za Deeper 3.0 može postići samo u idealnim uvjetima. Maksimalan domet veze također ovisi o pametnom telefonu ili tabletu kojim se koristite, oni s jačom antenom omogućit će vam da postignete maksimalan domet veze.

Postavke pametnog telefona ili tableta

Detaljno objašnjenje o tome kako povezati svoj uređaj Deeper pronaći ćete u našem Kratkom priručniku. Kako biste postigli maksimalan domet veze morate isključiti mobilne podatke. Ako upotrebljavate iPhone ili iPad, trebate isključiti i funkciju Wi-Fi Assist. Ta funkcija znači da će se vaš pametni telefon s bežičnog signala automatski prebaciti na mobilne podatke ako bežični signal oslabi. Tako da ako sonar Deeper zabaci na veću udaljenost, pametni telefon prepoznaje da je bežični signal oslabio i prebacuje se na mobilne podatke i time isključuje Deeper. Neki uređaji Androida imaju slične funkcije zvane pametno prebacivanje mreže.
Pozicioniranje pametnog telefona ili tableta

Pametni telefon ili tablet uvijek smjestite tako da lako primaju Wi-Fi signal sa sonara Deeper.

Kada uređaje uparujete na početku nove sesije, Deeper smjestite u vodu blizu svog pametnog telefona (oko 2 m). Kada je Wi-Fi veza uspostavljena, uređaj možete zabaciti malo dalje.

Pokušajte pametni telefon ili tablet uvijek držati na povišenoj poziciji u odnosu na površinu vode – 1 do 1,5 m iznad površine vode. Korištenje Deeper držača pametnog telefona za štapove dobar je način za držanje telefona na visokoj poziciji s koje se lako može povezati s uređajem Deeper.

Izbjegavajte odlaganje pametnog telefona ili tableta na tlo ili u džep kad ne gledate u zaslon. To bi moglo blokirati Wi-Fi signal pa ćete se morati ponovo povezivati.

Upotrebljavanje futrole ili držača za pametni telefon koji su pričvršćeni na vaše tijelo može umanjiti mogućnost hvatanja Wi-Fi signala i uzrokovati probleme s vezom. Ako imate problema s vezom za vrijeme upotrebe futrole ili držača na ovaj način, izvadite telefon iz futrole.

Futrole za telefone izrađene od metala ili ugljičnih vlakana mogu smanjiti domet veze. Ako naidete na probleme s vezom za vrijeme korištenja takve futrole, izvadite telefon iz futrole.

Kako da uređaj pravilno pluta

Wi-Fi signali ne putuju kroz vodu. To znači da ako je uređaj Deeper potopljen ili visi iznad vode, signal neće moći doprijeti do telefona ili tableta.

Za modele PRO/PRO+/CHIRP+/3.0 upotrijebite donju točku pričvršćivanja za ribolov s obale ili nasipa i srednju točku pričvršćivanja za zabacivanje s pristaništa ili mola. Tako ćete biti sigurni da Deeper ispravno pluta.

Za ribolov s broda ili kajaka s uređajima Deeper PRO, PRO+, CHIRP+ ili 3.0, pobrinite se da strana broda ne blokira signal između uređaja Deeper i pametnog telefona. Imajte na umu da se dok montirate Deeper brod može nagnuti na jednu stranu. Zato se pobrinite da je pravilno pozicioniran dok se nalazite na sredini broda i brod nije nagnut. Za najtočnija očitanja sonara dok pecate s broda, preporučena brzina panulanja je do 5 km/h.

Dok sonar Deeper povlačite rolom, povlačite ga polako kako biste spriječili da voda prelazi preko njega i blokira signal.

U lošim vremenskim uvjetima jaki valovi mogu potopiti uređaj i na taj način prekinuti Wi-Fi signal.
Csónakmód (PRO sorozat és CHIRP+)

A rugalmas rögzítővel (Flexible Arm Mount) könnyen rögzítheti a Deeper szonárokat csónakokra, kajakokra vagy vízi járművekre. Amikor Csónakmódban horgászik, vontatás közben batimetrikus térképeket hozhat létre a horgászpontokról.

Csónakmódban használva, a Deeper alkalmazás azonnal csatlakozik az okostelefon vagy tablet GPS jeléhez, és egy egyedi, valós idejű batimetrikus térképet hoz létre, amely a képernyő bal oldalán tekinthető meg. A Csónakmódban létrehozott batimetrikus térkép pontosságának biztosítása érdekében ellenőrizze, hogy a Deeper szonár az okostelefon vagy tablet közvetlen közelében legyen, mivel azok GPS modulját használja.

Az alkalmazás automatikusan menti a batimetrikus térképeket az Előzmények mappába. A térképek feltöltődnek a Lakebook fiókba is.

1. A funkció használatához kapcsolja be a Csónakmódot (a fő Beállítás mező felső menüsorában).
2. A feltérképezés funkcióval azonnal részletesen ellenőrizheti a meder kontúrját és mélységét, illetve megtalálhatja a legjobb horgász helyeket.
3. A térképen fehér vonal jelzi a GPS adatokat, a színskála pedig a mélységet és a víz alatti objektumok kontúrait mutatja.
4. A szonár szkenneléseik és batimetrikus térképek adatait a korlátlan adattárban érheti el a felső menüsoron található Előzmény funkcióval.

ⓘ Ha csónakból horgászik, a legjobb élmény érdekében töltse le az Offline térképeket (a Beállítások menüben keresse a térképeket). Ha nem töltötte le az Offline térképeket, a Deeper alkalmazás mobiladatot használ a térkép információk betöltésére, amely adatforgalommal járhat, és csatlakozási problémákat okozhat.
ⓘ Ha olyan helyen horgászik, ahol járt már korábban, és térképet is készített, a korábbi batimetrikus szkennelések megjelennek a térképen.
ⓘ Új helyeket térképezhet fel, vagy visszatérhet kedvenc helyeire is. Ha a batimetrikus térképen egy színes területre duplán koppint, megjelennek az adott pont mélység adatai.

Maximizing connectivity

All Deeper devices create their own Wi-Fi signal which is used to send sonar data to your smartphone or tablet. An
internet or cellular network signal is not needed. Please note the maximum connection range of 100m / 330ft for the PRO/PRO+/CHIRP, 50m / 165ft for the START, 40m / 130ft for Deeper 3.0 can be achieved only in perfect conditions. Being able to achieve the maximum connection range also depends on the smartphone / tablet you are using - smartphones / tablets with a strong reception antenna will allow you to achieve the maximum connection range.

**Smartphone / tablet settings**

You can find a detailed explanation of how to connect to your Deeper in our Quick Guides. To achieve the maximum connection range, you should turn off Mobile Data. If you have an iPhone or iPad, you should also switch off the Wi-Fi Assist function. This function means your smartphone will automatically switch from a Wi-Fi signal to cellular data if the Wi-Fi signal gets weaker. So, when you cast out your Deeper Sonar longer distances, your smartphone detects that the Wi-Fi signal has got weaker and switches to cellular data, disconnecting your Deeper. Some Android devices have similar functions called Smart Network Switch.

![Settings → Mobile Data](image)

**Positioning your smartphone or tablet**

Always position your smartphone / tablet in a way that will allow it to easily receive the Wi-Fi signal from your Deeper sonar.

When you are pairing your devices at the start of a new session, put your Deeper in the water close to your smartphone (around 6.5ft / 2m). Once the Wi-Fi connection has been established you can cast the device out further.

Always try to keep your smartphone / tablet in an elevated position relative to the water line - aim for 3-5ft / 1-1.5m above the water line. Using the [Deeper Smartphone Mount for Rods](#) is a good way to keep your smartphone in a high position where it can easily connect with your Deeper.

Avoid putting your smartphone / tablet on the ground, or in your pocket when you are not looking at the display. This might block the Wi-Fi signal and you will then need to reconnect.

Using a smartphone case/holder that is attached to your body can inhibit your smartphone’s ability to pick up the
Wi-Fi signal and can cause connectivity issues. If you experience connection issues while using a case/holder like this, remove your phone from the case.

Phone cases that are made of metal or carbon can decrease the connection range. If you experience connection issues while using a case like this, remove your phone from the case.

**Keeping your device floating correctly**

Wi-Fi signals cannot travel through water. This means that if your Deeper device is submerged under the water, or hanging above it, the signal will not be able to reach your smartphone or tablet.

For 3.0/ PRO / PRO+ / CHIRP models, use the bottom attachment point for shore / bank fishing and the middle attachment point for casting from a pier or dock. This will ensure your Deeper is floating correctly.

For boat / kayak fishing with a Deeper 3.0/ PRO/PRO+/CHIRP, make sure the side of the boat is not blocking the signal between your Deeper device and your smartphone. Please note that while you are mounting your Deeper, the boat may tilt to one side. Therefore, make sure that it is positioned correctly when you are in the middle of the boat and it is not tilted. For the most accurate sonar readings when boat fishing, the recommended trolling speed is up to 2.7 mph / 5 kmph.

When reeling in your Deeper sonar, make sure your retrieve it slowly to ensure water doesn't go over your Deeper, blocking the signal.

In rough weather, strong waves can submerge your Deeper device, causing the Wi-Fi signal to be interrupted.
Other settings

You can access other settings of the Deeper app by clicking on the menu icon on the top left corner:
History - History stores all your recorded scans. It can store an unlimited amount of data. Every recording can be scrolled through from beginning to end. You can also see the exact date and time when the scan was made, as well as its duration and sonar mode that was used.

Offline maps - an option to download maps for offline use. Maps are sorted by region and country. Once you have download map from the list, you will be able to access it anytime you use Boat or On-shore GPS mode, even if you do not have an internet connection.

Preferences - allows you to choose the time format (24/12 hour), as well as measurement units: Metric (m, °C), Imperial (ft, °F), Fathoms (ftm, °F), Mixed (fr, °C)

Firmware updates

Sometimes your Deeper will require a firmware update to ensure its full functionality. The process of updating firmware is very simple:

1. Have the latest version of the Deeper App on your phone;
2. Connect your Deeper to a charger;
3. Open the Deeper App, which will automatically connect to your Deeper;
4. You will then see a status message indicating that the update is being carried out;
5. After the update is complete you can continue to use your Deeper.

Boat Mode (PRO/PRO+/CHIRP)

Deeper Sonars can be easily mounted onto boats, kayaks and float tubes using the Flexible Arm Mount. When fishing in Boat Mode you can create bathymetric maps of your fishing spots as you troll.

When operating in Boat Mode, the Deeper App instantly connects to the GPS in your smartphone or tablet and creates custom, real-time bathymetric maps, that you can see on the left side of the screen. To ensure the bathymetric maps you create in Boat Mode are accurate, make sure your Deeper Sonar is in close proximity to your smartphone or tablet, as it uses their GPS module.
Bathymetric maps are automatically saved and can be accessed later in the History section of the app. They will also be uploaded to your Lakebook account.

1. To use the feature, turn on Boat Mode (located in the upper menu bar in the main Settings field).

2. The mapping feature enables you to instantly monitor bottom contour detail and depth and locate the best fishing areas.

3. The white line on the map indicates the GPS record, while the color grade depicts the depth and underwater contours you are mapping.

4. To access records of your sonar scans and bathymetric maps, all with unlimited data storage, go to the History function located on the top menu bar.

   For the best experience while boat fishing, download the Offline Maps (find them in the Settings menu). If you haven’t downloaded Offline Maps, the Deeper App will use mobile data for map information, which can cause connectivity issues and mobile data charges.

   If you are returning to an area you have already mapped, you will see your previous bathymetry scans displayed on the map.

   You can map out new location or return to the ones you like best. Also, if you double click on a colored area of bathymetry on your map you will get information about the depth at that spot.

   QUICK GUIDE (CHIRP)

   Trolling and scanning

   Once your Deeper sonar is mounted to your vessel, start moving across the water to scan or create underwater topography maps. Use Boat mode in the Deeper App (Settings > Sonar Mode > Boat Mode) for a split screen view of your scanning and mapping. We recommended speed limit of the boat is up to 5 km/h (2.7 knots).

   When trolling your Deeper sonar, keep your smartphone/tablet in a position where it can easily pick up the signal from your sonar. If your smartphone / tablet is on the floor of your boat or in your pocket, the connection may be unstable.

   Adding Point of Interest (POI)

   To add a point of interest (POI) to your map, you would need to access Maps feature of the Deeper app.
Trolling and scanning

Once your Deeper sonar is mounted to your vessel, start moving across the water to scan or create underwater topography maps. Use Boat mode in the FishDeeper app (Settings > Boat Mode) for a split screen view of your scanning and mapping. We recommended speed limit of the boat is up to 5 km/h (2.7 knots).

When trolling your Deeper sonar, keep your smartphone/tablet in a position where it can easily pick up the signal from your sonar. If your smartphone / tablet is on the floor of your boat or in your pocket, the connection may be unstable.

How to use a Deeper Sonar

Sonar noise

Sonar noise appears as dots or vertical lines on your sonar display, and can be caused by the following conditions:

- Very thick ice when ice fishing
- Other sonar units / fish finders operating nearby
- Murky water
- Obstacles like edges of a boat or pier
- Currents

**Thick ice when ice fishing**

Deeper Sonars will perform fine in thick ice up to roughly 1 m / 40in, although some sonar noise may occur. This occurs because some of the sonar pulses are reflected from the edge of the ice hole, causing small inaccuracies on the top part of the sonar screen. This will not affect the depth or structure reading function of the Deeper, and you can still easily mark fish and see your jig. If you wish to reduce this sonar noise, widen the ice holes you are fishing and position your Deeper directly in the center of the ice hole. Furthermore, it is important to always use the Ice Fishing Mode on the Deeper App.

**Other sonar units operating nearby**

Deeper sonars transmit ultra sound in the form of a cone, like most other sonar units. If the sonar cones of different sonars interfere with one another, both units will experience sonar noise.
To reduce the amount of sonar noise, make sure you are using the narrow beam of the sonar, and try to stay as far away as possible from other sonar units. Reducing the sensitivity of the sonar can also help.

**Murky water**

Due to the high density of murky water, sonar waves may reflect from it, causing sonar noise or clutter. Try reducing the sensitivity of the Deeper as this will reduce the amount of sonar noise. Get more information about sensitivity [here](#).

**Obstacles nearby**

Any hard obstacles nearby such as boat or pier edges can cause sonar waves to reflect from them, resulting in sonar noise.

If this issue occurs when you are using your Deeper mounted to a boat, try to adjust the position of your Deeper so the sides of the boat are not interfering with the sonar cone.

## Ice fishing

To set up for ice fishing with your Deeper, follow these steps:

- Ensure the top cover is screwed on tightly, with the Water Proof marks perfectly aligned.
- Drill your ice hole and drop in your Deeper Sonar.
- Enable Ice Fishing Mode in the Deeper App (Settings > Sonar Mode > Ice Fishing Mode)
- Ensure your Deeper Sonar is in the center of the ice hole so the sonar readings don’t catch the ice.
- There is no need to attach your Deeper Sonar to a line, but for convenience or extra peace of mind you can add an attachment bolt to the top attachment point and tie a line to it if you like.
- Every ice hole you drop your Deeper in will be automatically marked on your map.
- If the ice is very thick, switch to Narrow CHIRP beam 7°

When you have dropped your Deeper sonar into an ice hole, keep your smartphone/tablet in a position where it can easily pick up the signal from your sonar. If your smartphone / tablet is in your pocket, the connection may be unstable. For accurately recording the location of each ice hole on your map, please ensure you smartphone is close to the ice hole when you first drop in your Deeper sonar. After this, you can move further away.

## Onshore GPS Mode (PRO+ model)
The Deeper Smart Sonar PRO+ has a GPS receiver that enables the device to map your fishing spots by creating bathymetric, bottom contour maps when fishing from the shore. Onshore GPS Mode operates in the same manner as Boat Mode, but instead of using your smartphones’ GPS, Onshore GPS Mode uses the internal GPS receiver installed in the Deeper PRO+.

When in Onshore GPS mode, you will notice that there is a GPS status icon in the top of the screen.

- **GPS found** means your Deeper GPS location has been fixed, and you are ready to start mapping.
- **Looking for GPS** means your Deeper is processing satellite information and currently the location of your device is either unknown or not precise enough for mapping. Leave the Deeper floating in the water for 5-10 minutes until the status changes to **GPS found**
- If the “Looking for GPS” status doesn’t change to “GPS found” for a long time, this could be because your Deeper is indoors or under the roof of a boat, because the device is submerged, or because the surroundings are blocking the GPS signal (for example, in a gorge or a mountainous area).

*The performance of the internal GPS receiver is dependent on weather conditions, landscape features and satellite constellation. High voltage electricity wires in the area will impair performance.*

Рыбалка на льду

Чтобы настроить ваш эхолот Deeper для рыбалки со льда, выполните следующие действия:

- Убедитесь, что верхняя крышка плотно прикручена, а надпись Water Proof идеально выровнена.
- Просверлите лунку и опустите в нее эхолот Deeper.
- Включите режим подледной рыбалки в приложении Deeper App (Settings (Настройки) > Sonar Mode (Режим эхолота) > Ice Fishing Mode (Режим подледной рыбалки))
- Убедитесь, что ваш эхолот Deeper находится в центре лунки, так что лед не портит показания.
- Нет необходимости крепить эхолот Deeper к леске, но для удобства или дополнительного спокойствия вы можете установить крепежный болт к верхней точке крепления и привязать к нему леску, если хотите.
- Каждая лунка в которую вы опускаете эхолот Deeper сразу же отобразится на вашей карте.
Ice fishing

To set up for ice fishing with your Deeper, follow these steps:

- Ensure the top cover is screwed on tightly, with the Water Proof marks perfectly aligned.
- Drill your ice hole and drop in your Deeper Sonar.
- Enable Ice Fishing Mode in the Deeper App (Settings > Sonar Mode > Ice Fishing Mode)
- Ensure your Deeper Sonar is in the center of the ice hole so the sonar readings don’t catch the ice.
- There is no need to attach your Deeper Sonar to a line, but for convenience or extra peace of mind you can add an attachment bolt to the top attachment point and tie a line to it if you like.
- Every ice hole you drop your Deeper in will be automatically marked on your map.

When you have dropped your Deeper sonar into an ice hole, keep your smartphone/tablet in a position where it can easily pick up the signal from your sonar. If your smartphone / tablet is in your pocket, the connection may be unstable. For accurately recording the location of each ice hole on your map, please ensure you smartphone is close to the ice hole when you first drop in your Deeper sonar. After this, you can move further away.
GPS connection and use

**Smartphone / tablet GPS**

The Deeper App uses your smartphone or tablet’s GPS for a variety of mapping functions, including bathymetric mapping as you troll, saving the location of your scans, and GPS Ice Hole Marking. For these functions your smartphone / tablet needs to be within 3ft / 1m of your Deeper sonar. If the devices are far apart, the location information for your sonar readings will be incorrect.

**Inbuilt GPS (Deeper PRO+)**

The Deeper PRO+ has an inbuilt GPS receiver. This means that these models do not need to be in the same location as your smartphone in order to create maps, so you can map by casting it out.

When you have selected Onshore GPS mode, look for the satellite icon in the top right corner of the map. The color of the satellite icon indicates if a GPS connection has been established:

- **GPS found** means your Deeper GPS location has been fixed, and you are ready to start mapping.
- **Looking for GPS** means your Deeper is processing satellite information and currently the location of your device is either unknown or not precise enough for mapping. If it does not change, please follow the troubleshooting instructions.
- If the “Looking for GPS” status doesn’t change to “GPS found” for a long time, this could be because your Deeper is indoors or under the roof of a boat, because the device is submerged, or because the surroundings are blocking the GPS signal (for example, in a gorge or a mountainous area). If nothing is blocking the GPS signal, please follow the troubleshooting instructions.

**Maximizing GPS connectivity for Onshore GPS mode**

There are some steps you can follow to improve the GPS connection when using Onshore GPS mode:

- **Give your Deeper time to establish a strong GPS connection.** The GPS receiver in your Deeper has to connect with satellites orbiting the earth, and this connection may not be instant. Furthermore, the availability of these satellites can vary on different days, which means establishing a strong GPS connection can be fast one day and slow the next. We recommend putting your Deeper in the water, enabling Onshore GPS mode, then waiting for 5-10 min before casting it out.

- **Check if the status of GPS is green.** Once your Deeper has established a good GPS connection, the GPS status will be shown as “GPS found”. After casting out your Deeper, please double check the GPS status. If it has turned back “Looking for GPS”, wait a few moments for the GPS connection to be re-established.

- **Check the conditions and surroundings.** GPS signals can be affected by weather conditions and obstacles. The signal may be weaker if there are heavy clouds or rain. It can also be blocked by overhead obstacles like branches and power lines.

**Fish Deeper app**
GPS (Deeper PRO+)

GPS is an essential component for creating accurate bathymetric maps. GPS accuracy and reception quality can be affected by the conditions.

Heavy, cloudy weather can affect the strength of the signal, while branches, pylons and other obstacles like electricity lines can also affect connectivity, as can the availability of satellites.

These factors can cause the following issues:

- Your Deeper failing to connect with satellites – the satellite icon is flashing red or orange
- Your bathymetric mapping (the depth colors) appear to be drawn on land, instead of on water

The GPS in your Deeper PRO+ connects directly to satellites. So, to ensure rock solid connectivity, we recommend putting your Deeper in the water for around 10 minutes prior to usage to enable it to establish a strong connection. When you are using your Deeper PRO+ for bathymetric mapping, make sure the satellite icon is green, showing that your Deeper has established a strong GPS connection.

Only when the satellite icon turns green can you start creating bathymetric maps. The time it takes for the unit to establish a strong GPS fix depends on the number of obstacles nearby as well as the weather conditions.

If you are using the Deeper PRO+ in Onshore GPS Mode but the GPS connection is never established, please contact the Deeper Support team.

Battery and Charging

Please read our Quick Guides for step by step instructions on how to charge your Deeper device. Here you will find information on how often you should charge the battery and other important points about charging your Deeper.

Connecting the USB charging cable (PRO/PRO+/CHIRP)

The USB charging cable that comes with your device is compatible with any standard USB port. This includes standard smartphone and tablet chargers, and the USB outlets of your computer and car. Outlets must meet USB standards and have a voltage level of 5V.

Charging Deeper Start

Connect your Deeper Sonar to a USB power source using the cable included. For charging please use a standard smartphone or tablet charger, or connect the cable to your personal computer or the USB outlet of another device.

When and where to charge you Deeper

Remember you should never charge your Deeper device in the water, and you should always ensure the charger and device are dry before charging. By regularly charging your Deeper you will maximize the battery’s life. The battery should be recharged at least every 6 months, even if the device is not being used. The battery charger should be disconnected from the mains supply if unused for long periods.
The battery in your Deeper device is Li-poly and cannot be charged at temperatures below 3°C / 37.4°F.

Li-poly batteries can be dangerous if handled inappropriately. The safe usage instructions (included in the box) must be followed at all times.

**Scanning modes (Standard, Boat, Ice, Onshore GPS)**

**Lakebook™**

**Support and contacts**

If you encounter any problems, have questions or just want to share your experience, please feel free to contact us in the way that suits you best. Our contact details can be found on our [support page](#).

**History**
History stores all your recorded scans. It can store an unlimited amount of data. Every recording can be scrolled through from beginning to end. You are also able to see the exact date and time when the scan was made, plus the depth and fish icons. You can also rename any record by pressing the Edit button on the right side of the screen and typing in your desired title or a comment. For Android devices, to delete your records you have to tap on the history item you want to delete and hold for a second, after which a delete icon will appear in top right of the screen. For iOS devices, you have to tap on the History item you want to delete and then swipe left, which will cause the Delete and Rename buttons to appear.

**Maintenance**

**Extending product lifetime**

- Make sure that your Deeper App is always up to date. If you are not sure whether you have the latest version installed, visit the Google Play Store or App Store to check if there is a new version of the Deeper App.
- When you have the latest application, it will automatically update firmware in your Deeper Sonar when you connect to your Deeper. Your Deeper needs to have its battery charged to more than 50% for firmware updates.
- All Deeper sonars are powered by a li-poly battery and charging these batteries regularly will extend their life. We recommend charging your PRO, PRO+, START and CHIRP+ at least once every 6 months. The Deeper 3.0 should be charged every 2 months, even if you are not using it.
- Store your device in a clean, moisture-free environment. A temperature of 16°C-22°C (62°F - 72°F) is ideal, and do not leave your Deeper in a very hot or very cold place for long periods of time.
- The top cover on the Deeper PRO, PRO+, 3.0 and CHIRP+ should always be screwed tightly (The Water Proof marks must match).
- Please protect your Deeper’s body from physical damage - don’t let it hit into the ground or rocks, etc. Strong physical impacts can damage the sonar irreparably.

**Cleaning**

- Clean your Deeper with a soft cloth.
- If your Deeper gets excessively dirty, clean it with a cloth moistened with water or a mild detergent solution.
- Do not use any type of abrasive pad or scouring powder, or any solvent such as alcohol or benzene, for cleaning your Deeper, as doing so may damage the surface of your Deeper.
- Cleaning the water sensors (the two metal points on the of the Deeper PRO, PRO+, 3.0 and CHIRP+) can be done by roughly scrubbing them with a sponge. An electronic contact cleaner can be used if needed.
Non-warranty repair services & battery change

In case your Deeper is no longer covered by warranty (more than 2 years from the purchase), we can provide you with a full technical evaluation & repair of your Deeper Sonar.

Complete technical evaluation and repair of your Deeper Sonar will cost 50$. This price includes all electronic component repairs, battery change as well as shipping both ways.

In order to initiate the process, you have to contact Deeper Support team at support@deeper.eu or open a new service ticket.

Synchronizing Data

It is possible to back up all the scans you make with your Deeper on our secured cloud server. This can be helpful for:

- Accessing all your data on any Android or iOS device through the Deeper App using your unique Deeper login.
- Viewing your scans as well as your maps on any computer through Lakebook.
- Freeing up space on your smartphone without losing your scans – you can save your data in the Deeper cloud only.
- Getting all your existing scans on a new device when, for example, you buy a new phone.

Any new maps or scans you make will be synced with our cloud server automatically, but this may not happen straight away. If the session has a cloud icon with a tick, then it is already synced. If it only has an outline of a cloud, it has not been synced yet.
To immediately upload any unsynchronized sessions, just hit the icon on the top right of the screen (a cloud with an up arrow) when you are in History mode. Please ensure that your phone is connected to a stable internet network when syncing.

Unsynchronized data is only accessible on your phone, and not on any other devices or Lakebook.

With your data synced, you now have more flexibility as to how you store it. You have 2 main options for how to keep your data:

- **Synced** - this type of data is saved on both your phone and our cloud server. It can be accessed through your phone and any other device using the Deeper App. Maps and scans can also be viewed on Lakebook. Synced data is accessible on any device, and maps and scans can be viewed on Lakebook.

- **Remote** - this type of data is only saved on our cloud server. It cannot be immediately accessed through the Deeper App – if you want to view it on your phone or any other Android or iOS device, you will need to download it from the cloud first through the Deeper App. Maps and scans stored as remote data can still be viewed on the Lakebook web portal.

Your scans will be saved as Synced data by default. To convert a session into Remote data, which means it will not be taking up any space on your phone, just select the delete icon, then choose the option “Only delete from app”. The delete icon will appear if you hold a finger on the scan (or slide it to the left if you’re using an Apple device). Scans saved as Synced data will appear as normal in the app, whereas Remote data will still appear, but only as a grey outline.

**Troubleshooting**

**Spare parts**

If you have lost any of the accessories for your Deeper, or you want to buy additional spares, our Support team will be happy to help you out. Please contact us specifying the kind and quantity of spare parts you would like to purchase, and where they need to be sent, and we will organize their delivery.