![BearCreeks - Born to be free]

BC131 Quick start guide
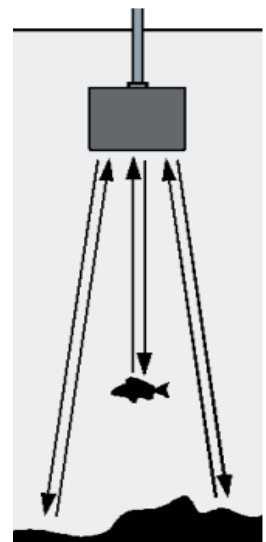
1 – Transducer with knobs and rubber
2 – Display
3 – Antenna for the display
4 – Antenna for the CCU
5 – CCU
6 – Cables (power cable, charger cable, data conversion cable, feeder cable)

How Does Sonar Work

Sonar technology is based on sound waves.
The system uses sonar to locate and define the structure, bottom contour and composition, as well as depth directly below the transducer. The transducer sends a sound wave signal and determines distance by measuring the time between the transmission of the sound wave and when the sound wave is reflected off an object, then it uses the reflected signal to interpret location, size, and composition of an object.
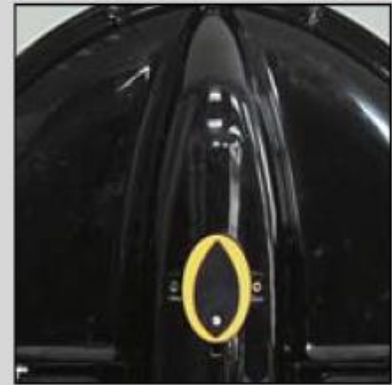
1) For boats like Carp Madness, Anatec Monocoque, you need to drill a hole on the boat bottom to fix the transducer.
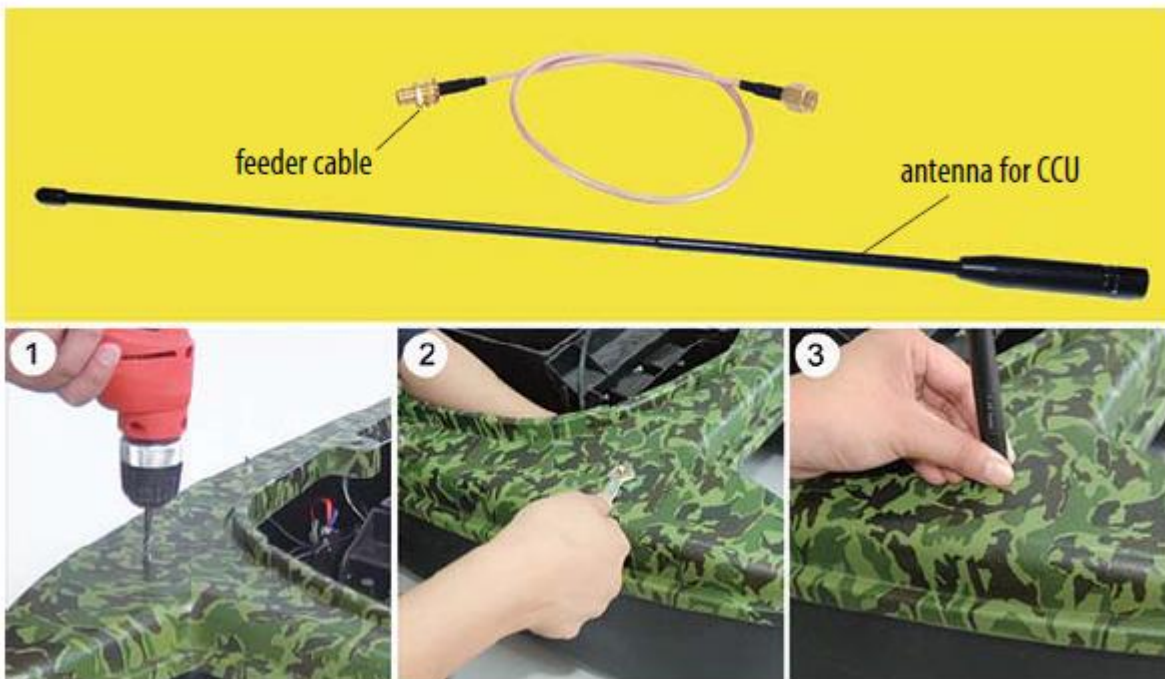

2) For boats of BearCreeks, Carplounge, Waverunner, Vegaboat, Carpboat, Anatec catamaran etc, there is a transducer groove on the bottom. So, you only need to simply match the transducer to the boat with a rubber.
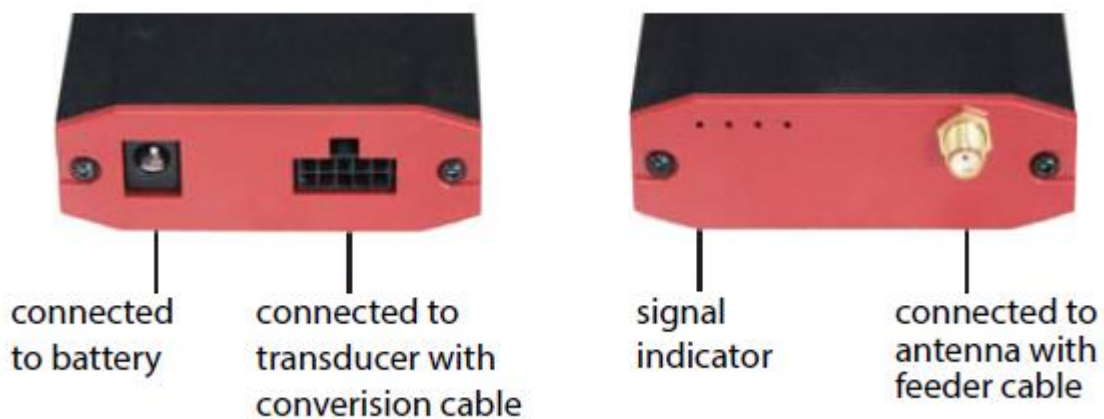
1) Drill a hole (5mm diameter) on the selected position. Only in case the hole is not yet there.

2) Screw down the wisher and nut from the feeder cable, then hold the cable through the hole from inner housing, and tighten the nut by a wrench.

3) Screw the antenna on the boat.

4) After the installation is finished, please connect the parts (transducer, antenna, battery) to the CCU. Then fix the CCU on the inner side of the boat.

| connected to battery | connected to transducer with converision cable | signal indicator | connected to antenna with feeder cable |

	For display	For transmitter
Recomended voltage	6-12V	6-12V
Absolute Maximum voltage	14.8V	14.8V

Please note: overvoltage may burn the elements in the device!
Below you can see the voltage range of the most popular batteries in the market:

Battery Type	Voltage	Permission
12V Lead-acid	10.8v~14.8V	✓
8*AA NiMH	7.8V~10.6V	✓
8*AA Alkaline	7.5V~12.8V	✓
2S Lithium	5.6~8.4V	✓
3S Lithium	8.4~12.6V	✓
4S Lithium	11.2V~16.8V	✗

1) BC131 can be used by being fixed to a remote control.
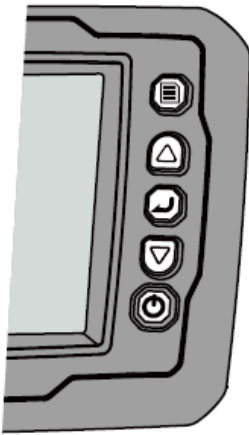
fixed to a remote.

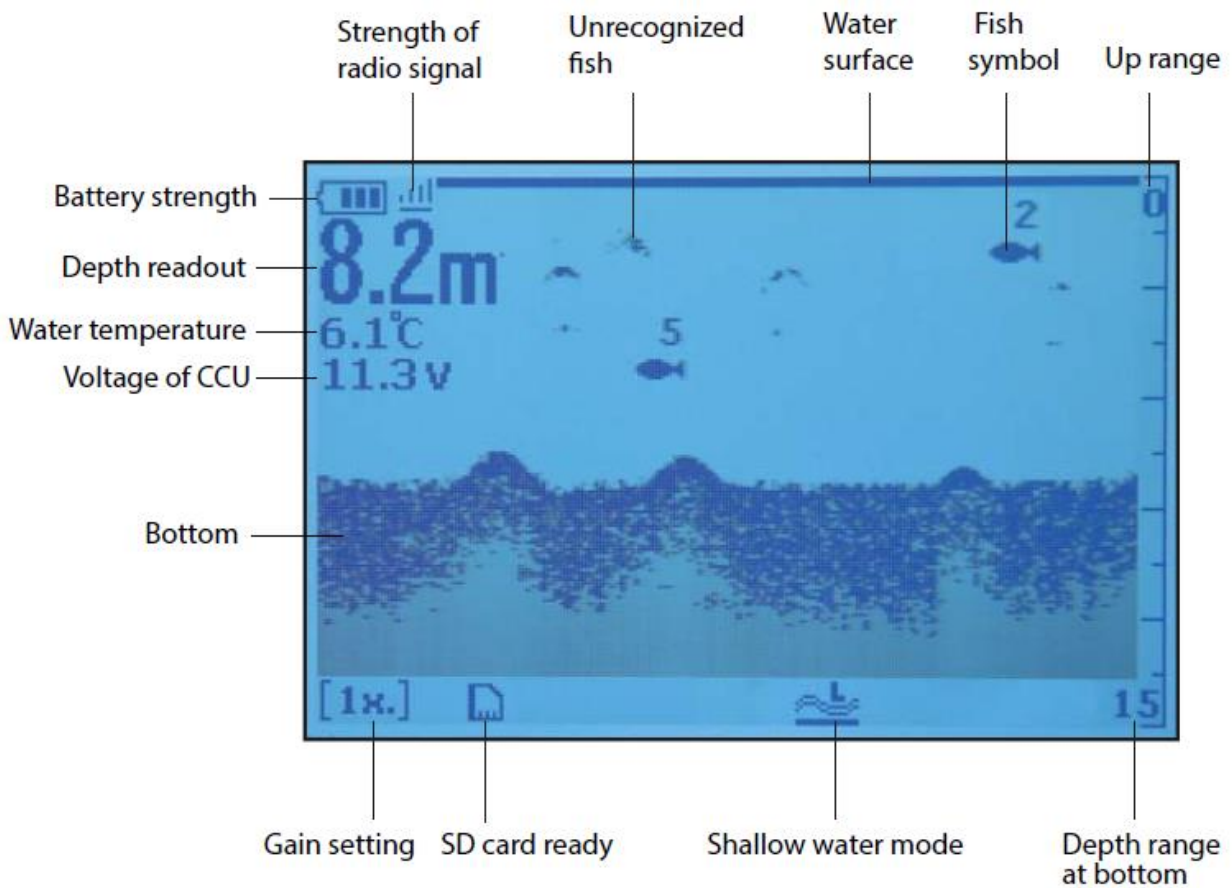2) BC131 can be also used by being fixed to a tripod.

fixed to a tripod

Please note: make sure the antenna is tightened on the boat, otherwise the R/C distance will be greatly shortened.

Key Functions

Key	Function
[Menu]	1) Open menu settings 2) Switch between menus
[Up]	1) Move up to select menu 2) Increase a value of option
[Enter]	1) Confirm a setting / selection 2) Enter the menu settings
[Down]	1) Move down to select menu 2) Decrease a value of option
[Power / Exit]	1) Power on / off the unit 2) Exit the selection or menu 3) Turn on / off the backlight

What is on the display

Strength of radio signal • Unrecognized fish • Water surface • Fish symbol • Up range

Battery strength • Depth readout • Water temperature • Voltage of CCU • Bottom

8.2m
6.1℃
11.3 V

[1x.] SD card ready

Gain setting • SD card ready • Shallow water mode • Depth range at bottom

In most cases, the default setting is enough. However, in some situations, to get a better user experience, you need to adjust the menu setting.

o Sensivity

Determines how echoes will be displayed on the screen.

Increasing the sensitivity will let you see more details on the screen. In deep water, it is better to increase the sensitivity, whereas in the shallow it is recommended to decrease the sensitivity.

o Fish ID. Sens.

Fish ID. Sens. lets you adjust the threshold of fish size on display.

Selecting a higher setting allows any weak returns to be displayed as fish, which is helpful especially when you are intending to find smaller fish species or bait fish.

Selecting a low setting will prevent weak sonar returns being displayed as fish, which will be very helpful when you are seeking large species of fish.

o Gain

The gain controls the sensitivity of the hardware receiver.

A higher gain makes the sonar more sensitive to echo returns, allowing it to display weaker targets. If the gain is set too high, the image might be cluttered with some background noise.

Please note: when set in [shallow water mode], the [Gain] option will be disabled. It is used to get a better sonar performance in shallow water.

Sonar	Sensitivity	Controls the level of details shown on the display.
	Fish ID. Sens.	Adjusts the threshold of fish size display. Higher setting allows weak returns to be displayed as fish, while a low setting will prevent weak returns from being displayed as fish.
	Surface Clarity	Reduces the surface clutter by decreasing the sensitivity of the receiver near the surface.
	Gain	Controls the sensitivity of the hardware receiver. A higher gain makes the sonar more sensitive to echo returns.
	Shallow mode	Used to get better sonar performance in shallow water.
Display	Units	Set the units of measure for depth or temperature related readouts.
	Depth Range	Determine in which proportion the bottom will be displayed on the screen.
	Depth Offset	Adjust the digital depth readout to indicate the depth from the waterline.
	Color Invert	Invert the color of sonar image.
	Chart Speed	Control how fast the sonar information moves across the screen.
	Contrast	Get yourself a suitable display when operating the unit.
Alarm	Shallow Alarm	Makes sounds when the depth becomes equal to or less than the menu setting.
	Fish Alarm	Makes sounds when the fish finder detects what it determines to be a fish.
	CCU Alarm Voltage	Makes sounds when the input battery voltage of the transmitter is equal to or less than the setting.
System	Beeper	Set whether the sonar unit sounds a tone or not when a key is pressed.
	Language	Select the display language for menus.
	Back light	Adjust the brightness of backlight.
	Load default	Used to restore original factory setting.
	Simulator	Used to let you practice using the Fish finder as if the boat was on the water.
	System info	Show system information of the device.
	Dev. Mode	For engineering usage.
	CCU update	Used to update CCU.
	Mode Select	Select a mode for sonar display.

Specifications and features

Specifications	Display	Display size: 4.5"FSTN, Sunlight Viewable
		Resolution: 240*128Pixels; 4Gray Scal screen
		Language: Multi-language
	Sonar	Depth Capability: Max 30m (100ft)
		Sonar Frequency: 115Khz
		Sonar Beam Angle: 60deg @-10db
		Sonar Alarms: Fish / Shallow / Low Battery
	R/F	Radio Frequency: 433Mhz
		RC Power: 20dBm (note: normally 180m(600ft) range can be expected, the height of the antenna and weather can result in a huge difference of the radio range)
	Power	Power of Display: Li battery (BL-5C)
		Power of Transmitter: Powered by bait boat battery or DC6~12V/2.0W
	Technical and casing	Sensor Cable Length: 0.5m
		Sonar unit size: 134x92x24mm
		Operational Temperature: -10°C ~ 50°C
		Water Temp. Included in Transducer
		Display target depth reading above each fish symbol
Features		Possible to update the software of display & CCU (transmitter) via the built in SD card
		3 level hardware gain setting to meet shallow / middle / deep water environment
		Optimized shallow water mode for carp fishing
		Extreme stable wireless performance even in a bad weather condition
		Full two-year warranty