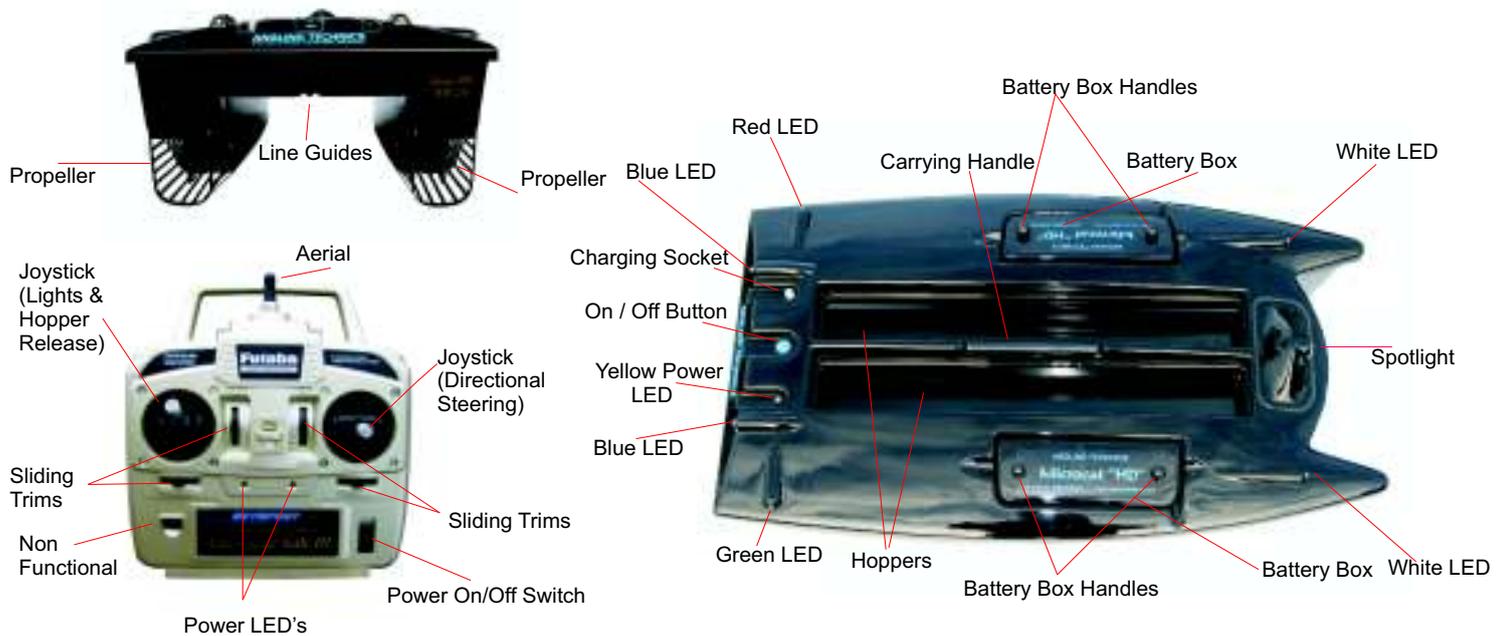


Angling Technics Limited

Microcat "HD"

Thank you for purchasing this highly advanced fishing aid. Before you use it, please take a few moments to read these instructions.



Operation Instructions:

1. There is no external boat aerial as it is fitted internally.
2. The aerial on the transmitter has its optimum operating position when the aerial tip is vertical. The transmitter is supplied with, and will operate for over 24 hours, using Heavy Duty AA batteries i.e. Duracell.
The batteries supplied are NOT rechargeable.
When the battery level falls to an unacceptable level an alarm will sound and the RED power LED will flash.
3. The transmitter features sliding trims. **Be very careful to ensure the sliding trims are centrally positioned and not moved as this will result in the boat possibly losing some operations or not working correctly.**
4. Remove the battery boxes from the boat and insert the batteries into the boxes ensuring the battery connector is finally placed as per the diagram and the cable goes down the marked recess.
5. Turn the Transmitter "ON".
6. Now turn "ON" the boat using the "ON/OFF" button and the yellow LED will come "ON". This LED will remain "ON" while the boat is switched "ON" even if the navigation lights are turned "OFF".
7. The navigation LED's will flash for 5 - 10 seconds while the boat registers itself to the Transmitter and then the LED's will remain "ON" or will go "OFF" depending where the left hand joystick is vertically positioned. Raising and lowering the left hand joystick will control the brightness of the navigational LED's and the final movement up will turn "ON" the spotlight.
8. Open the hopper doors by moving the door catches sideways manually, or by moving the left-hand transmitter joystick to the left or right. When opening the doors using the transmitter (not manually) then you **MUST** wait approximately 15-20 seconds for the door catches to return to their natural position. Place your line and hooked bait up through the open doors and guide the line(s) so that they trail from the "Lines Guides" at the stern of the boat, in the centre, and make sure the exposed hooks are kept clear of the edges of the doors. Close the door, which will lock in place, load your bait into either or both hoppers ensuring the bait is away from the top of the doors.
9. All the directional control is on the right hand joystick. Put the boat in the water, and using the right hand joystick, steer the boat to the position required. When you are at the desired position release the bait and your rig by moving the left-hand left joystick or right depending on which operation you require.
10. To achieve optimum operating range of the boat. Please ensure the aerial on the transmitter is positioned vertical whilst operating the boat.



Battery Connector

TO OPERATE THE HOPPERS **INDIVIDUALLY** - OPEN THE RIGHT HAND HOPPER **FIRST** BY MOVING THE LEFT-HAND JOYSTICK TO THE RIGHT (3'O'CLOCK). THEN TO OPEN THE LEFT HAND HOPPER MOVE THE SAME JOYSTICK TO THE LEFT (9'O'CLOCK).
TO OPERATE **BOTH** HOPPERS AT THE SAME TIME MOVE THE LEFT-HAND JOYSTICK TO THE LEFT (9'O'CLOCK).

11. When the hopper(s) are released the boat LED's will go "off" (provided you are using the boat with the navigation lights "ON") until the joystick is back in the central position and the hopper(s) have opened. The hopper(s) can be operated independently of the other controls so you can have the option to release the bait while the boat is moving. When the bait and or line(s) has been released guide the boat back to you.
12. To get a minimum turning circle simply ensure the boat is **not** moving and move the right-hand joystick to the left or right (3 O'clock or 9 O'clock) leaving the joystick in the neutral position as far as the forward and reverse is concerned.
13. Moving the left-hand joystick (light control) fully back towards yourself will turn the navigation lights (LED's) to the "OFF" position. As you move the same joystick slowly forwards the navigation lights will come "ON" and gradually increase in brightness until they are fully "ON" and the last quarter of the movement will turn "ON" the spotlight.
When the LED's are "OFF" they will only come back "ON" at half power (dim) if the boat loses radio signal, and they will stay that way, and the boat will not move, until the radio signal is restored. The same applies, if the LED's are "ON" fully and they will go to half power (dim) if the boat loses radio signal.
14. Remove the Microcat from the water and gently close the hopper door(s). Switch "OFF" the boat by pressing the button again.
15. Switch "OFF" the transmitter.

Lights.

- Lights continuously "ON" - normal operation.
- Dim lights flashing - radio signal failure to the boat.
- Two /three second blink - hopper door(s) operated.
- No lights - transmitter set to "NO LIGHTS" mode.

Additional Operating Notes.

- a. There is no mechanical rudder used in the boat. Its steering is achieved by altering the power of the motors.
- b. The positions of the transmitter control joysticks are directly proportional to the motor power.
- c. The boat possesses a very high degree of manoeuvrability, the maximum turning force being when the throttle joystick is in the central position and the rudder joystick is at extreme right or left.
- d. With the lights (LED's) set to the "OFF" position there is no visual indication that the hopper doors have opened.
- e. If it appears that the boat is becoming exhausted and may not make it back to you, then let the boat drift for a while and the batteries will recover enough energy to make the return. You may need to do this a couple of times. It is recommended that a bankside or solar charger be used to top up the batteries after every trip, while at the bankside.
- f. Should the boat take in water, holding the boat with its bow facing down should drain the water from the forward drain holes. This practice is recommended at all times.
- g. The boat can be used in wind and rain. If the situation gets very difficult while the boat is still on the water, it should be driven into or away from the wind whichever is most convenient.
- h. Do **NOT** use the boat in high winds and choppy conditions.
- i. If the transmitter is turned "OFF" while the boat is still "ON" the boat lights and motors may operate erratically, this is not good practise.
- j. The motors may be operated out of water without fear of damage, unless fouled by a blockage, which interferes with the propellers. **Never** try and remove anything that is fouling the propellers with the batteries still connected.
- k. It is important when the boat is not being charged that the supplied cover is placed over the charging socket. This will prevent anything entering the connector and will help prevent corrosion.
- l. Always pick up the boat gently as a fully loaded boat snatched up may cause excessive strain on the handle and hull structure.
- m. Whilst reversing the boat it may not reverse in a straight line, this is due to the shape of the rear of the boat. To get the best results inch the boat backwards while moving the right hand joystick to the left or right. This will provide steering in reverse.

Batteries & Charging: There is a mains powered charger supplied with the boat. The Boat charger is capable of charging the boats batteries from fully discharged to fully charged in 18 - 20 hours. Under **NO** circumstances should the batteries for the boat be fully discharged before charging as this can severely damage them. Boat battery charging can take place at any time without any detrimental effect on their performance. If the batteries are not used for some time they will need to be regularly charged (at least every 8 weeks) to keep them in peak condition. **Please always disconnect and remove the batteries when the boat is in storage or being transported.**

Do NOT under any circumstances use batteries other than 6 volt units as this will lead to irreparable damage to your boat and will void the guarantee.

The Boat is charged while it is switched “off”.

If the boat is not going to be used for some months then every 6-8 weeks give the boat an overnight charge to ensure the batteries remain fully charged.

All rechargeable batteries will remain highly efficient if stored and maintained in a fully charged state. If the batteries are stored for long periods with very little or no charge in them, then you will probably be in a situation where the batteries will not accept a charge at all.

The Transmitter is supplied with 4 off heavy duty **none rechargeable** AA batteries, which will operate the transmitter for approximately 24 hours.

CARE OF YOUR EQUIPMENT.

1. Do **NOT** drop / severally knock the Microcat as this may damage internal parts.
2. It is recommended that the boat be wiped down with a damp cloth and allowed to dry out any condensation in a warm and dry environment for a day or two with the battery boxes left out of the boat.
3. Although the electronics are sealed, it is important that the boat and transmitter be stored in a warm, dry place, in order to prevent condensation build up.
4. The transmitter should be protected from water / condensation at all times.

Fault Diagnosis

Problem	Cause	Action
Slow running motors	Boat battery(s) voltage low	Charge the boat battery(s)
Low radio range	Boat battery(s) need recharging Transmitter batteries - low charge	Charge the boat batteries Replace transmitter batteries
Motors run correctly but there is no movement	Weed guard(s) blocked	Clean weed guard(s)
Boat does not respond to transmitter control and appears “dead”	(a) Boat battery(s) is flat (b) Transmitter batteries are flat	(a) Charge the boat battery(s) (b) Replace transmitter batteries
Door open without command / boat is out of control	Radio interference from other sources	Check other boats users or interference could be the cause
Boat goes round in circles / difficult to steer	(a) Battery(s) low on boat (b) Blocked weed guard(s)	(a) Charge battery(s) (b) Clean weed guard(s)
Door will not open	Boat battery(s) low	Charge boat battery(s)
Door will not close	There is a delay of approx 15 secs between operating the door by radio and the catches returning to their natural position.	Wait for the door catches to return naturally