



**OCEANREEF**<sup>®</sup>  
connecting divers

# ALPHA UWCP UNDERWATER CELLULAR PHONE



## **ALPHA UWCP**

The Cellular Phone has been one of the world's most dynamic new technologies and only continues to evolve. Within the last 20 years, this revolutionary device has changed all of our lives completely and is arguably the 20<sup>th</sup> century's greatest technological innovation.

It seems there are only a few places on earth that could not be reached by cellular calls. The earth's oceans are no exception. The sea covers over 70 percent of the world's surface, yet receiving an underwater phone call has never been possible, until now. Since the beginning of its history, underwater communication has been driven by hardwired connections and later by the ultrasonic wireless technology. Ocean REEF is proud to introduce a 3<sup>rd</sup> option in underwater/surface communications, the use of cell phone transmitting while diving. This new form of communication from and to divers is now possible with our new product, the ALPHA UWCP. This new technology makes it possible for communication between 2 divers or diver-surface 20000 km away!

This new underwater communication unit is integrated with a speaker and microphone and can be easily installed on any one of the Ocean REEF full face masks (Neptune II NIRA, Space, Predator or Raptor). This unit is wired with a 40 meter cable and can be modified to most any request. (Ocean REEF suggests a cable length of no more than 50 meters for action divers. A quick release waterproof rubber connection allows the diver to separate from the cable at any given moment. The cable ends with a quick water resistant bayonet connection, plugged into an impact and water resistant compact box.



This compact box may be contained in a special custom made buoy with a unique top pocket to provide a firm attachment to the box. The device is further attached to the buoy with the use of custom rubber bands. The buoy has a water reserve bottom pocket for even more stability while on the surface. The device is also equipped with diver flags (international and commercial).



The water resistant surface box contains an electronic BLUETOOTH interface which can be connected to the appropriate cellular phone. A cellular phone may be purchased with the unit.

The device works with a 9 volts alkaline battery (not included). Phone plans and adaptability may vary according to country and provider.

Any cellular phone with Bluetooth, “voice dialing” capabilities and with dimensions no larger than 60 mm wide, 25 mm thick , 110 mm high, can simply be plugged into the standard production unit. Phones larger than these dimensions can also be adapted. Custom made units can be provided on request and quantity evaluation.

### **How to install the ALPHA UWCP**

- 1- plug all the connectors between underwater unit, cable and surface unit. **When connecting the end of the cord to the box, align the plugs properly and click into place. You will feel a gentle clockwise twist. A proper connection is achieved once the twist is complete.**
- 2- insert the battery having care of the polarity
- 3- turn on the Bluetooth device search option on your cellular phone
- 4- press the button on the underwater unit and keep it pressed until you see on the surface unit **both** LEDs flashing (one per time)
- 5- after a little time your cell phone will recognize the Bluetooth device BT-200. **Activation distance may vary**
- 6- accept it inserting the code **0000** (four times zero)
- 7- ready to record the desired names (if necessary) following the cellular instructions.

These instructions have to be followed **only for the first time!!**  
All the other times all you will have to do is:

- 1- connect everything
- 2- insert the battery
- 3- put the cellular in the box
- 4- press the button on the underwater unit a few seconds until you see on the surface unit the red light on

## How to use the ALPHA UWCP

Before Diving, turn on the Bluetooth of your cellular phone. Install a 9 volt battery in the dedicated compartment of the box and check the Bluetooth connection. **The Bluetooth activation distance may vary, depending on your Bluetooth service capabilities.**

Have the underwater unit installed in the full face mask (Ocean REEF) with the microphone well positioned and facing the front of the visor



If you have to record a name (it depends on your cellular phone) remember to do it **WHILE WEARING THE MASK**. This operation is necessary to recognize the proper audio while diving. **The closed volume of the mask may change ones pronunciation and it is important to record the name as it would be heard while diving.** The number of “voice dial” names/phone numbers depends on the characteristics of individual cellular phones.

The diver may call any of the recorded name/numbers by pressing the PTT. After the cell phone confirmation signal is heard, pronounce the name of the person you would like to call. The acceptance of the name will be confirmed by the repetition of the name from the cell phone in the speaker. At this time the diver will hear the calling tone and eventually the answer. The conversation is in full duplex. The diver does not need to press any button during the conversation (hands free communication). To interrupt the call, simply press the PTT button.

An incoming call is understood by the typical phone ringing in the speaker (remember to turn on the ring tone). The conversation will begin by pressing the PTT.

### **List of parts included with the ALPHA UWCP**

- Underwater unit with waterproof connector, D-Mic microphone and NACS.



- 40 meters cable with waterproof connector and water resistant bayonet connector.



- Inflatable buoy with 2 diver flags.





- Cellular phone protective water resistant box with a cell phone Bluetooth interface (battery not included).







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