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**OTS 900401-000**

# OTS Buddy Phone for Full Face Mask User Manual

Model: 900401-000

## INTRODUCTION

The OTS Buddy Phone is an advanced underwater communication device designed for use with full face masks. Utilizing state-of-the-art Digital Signal Processing (DSP) technology, it provides clear and reliable two-way voice communication for divers. This manual provides essential information for the proper setup, operation, and maintenance of your Buddy Phone.

## KEY FEATURES

- Enhanced Communication:** Features ultrasound technology with upper single sideband (USB) transmission, ensuring clear underwater communication for divers within a range of 165' to 1640.4'.
- Superior Audio Clarity:** Equipped with a ceramic earphone and a 300-3,000 Hz audio bandwidth, this buddy phone delivers crisp, intelligible sound, even in challenging underwater environments.
- Versatile Microphone Options:** Choose between the ME-16R Hot-Mic (dynamic) or Super Mic (standard) (ceramic) to suit your specific communication needs, ensuring optimal voice transmission.
- Reliable Push-To-Talk (PTT):** Integrated push-to-talk functionality allows for seamless and instant communication, enhancing coordination and safety during dives with through-water transmission.
- Optimized Signal Strength:** With a 0.5 Watts transmission output power and auto gain control greater than 80 dB, this buddy phone ensures a strong, consistent signal, minimizing disruptions.

## SETUP INSTRUCTIONS

### 1. Battery Installation

The Buddy Phone requires a 9-volt battery for operation. Carefully open the battery compartment, observing polarity, and insert the battery. Ensure the compartment is securely closed to maintain water integrity. It is recommended to use a fresh, high-quality alkaline or rechargeable 9V battery before each dive.

### 2. Attaching to Full Face Mask

The Buddy Phone is designed to integrate with compatible full face masks. Align the unit with the designated attachment points on your mask. Secure the unit firmly using the provided straps or clips, ensuring it is stable and does not obstruct your vision or mask seal. Refer to your full face mask manual for specific attachment instructions if necessary.



Image: The OTS Buddy Phone D-2 unit, labeled 'Buddy Phone Digital Signal Processing', is shown attached to the side of a blue full face diving mask. The unit features control knobs and a cable extending from it, indicating its connection to the mask's internal system. The attachment straps of the mask are visible, securing the communication device in place.

## OPERATING INSTRUCTIONS

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### Power On and Voice Menu

Upon submerging, the D2 Buddy Phone will automatically power on. You will hear a voice system announce: "Buddy Phone ON, frequency A (B), channel one (four), volume High (Medium, Low)," reflecting the last used settings.

### Changing Settings Underwater

To access the main menu and change settings while underwater:

1. Depress the Push-to-Talk (PTT) switch three times quickly.
2. Hold the third depression until you hear "main menu - volume, channel, continuous transmit."
3. Once you hear the menu selections, simply depress the PTT switch again to select the desired option.
4. The unit will confirm your selection and return to receive mode.

If no selection is made after the menu repeats twice, the D2 Buddy Phone will exit the main selection menu and revert to receive mode.

### Continuous Transmit Mode

The continuous transmit mode allows for hands-free communication. This feature is particularly useful for activities

requiring constant voice transmission, such as filming or scientific observations.

## MAINTENANCE

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- **Rinsing:** After each use, thoroughly rinse the Buddy Phone with fresh water to remove salt, sand, and other debris.
- **Drying:** Allow the unit to air dry completely before storage. Avoid direct sunlight or excessive heat.
- **Battery Removal:** For long-term storage, remove the battery to prevent leakage and corrosion.
- **Inspection:** Periodically inspect the unit for any signs of wear, damage, or corrosion, especially around the battery compartment and seals.
- **Storage:** Store the Buddy Phone in a cool, dry place, away from extreme temperatures and direct sunlight.

## TROUBLESHOOTING

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### No Power / Unit Not Turning On

- Check battery installation: Ensure the 9V battery is correctly inserted with proper polarity.
- Replace battery: A low or dead battery is a common cause. Replace with a fresh 9V battery.
- Inspect battery compartment: Check for any corrosion or damage to the battery terminals. Ensure the battery compartment cover is securely latched.

### Poor Communication / Static

- Check channel settings: Ensure all communicating units are on the same frequency and channel.
- Adjust volume: Use the voice menu to increase the volume if audio is too low.
- Check microphone connection: Ensure the microphone is securely connected and positioned correctly within the mask.
- Environmental factors: Communication range and clarity can be affected by water conditions, obstacles, and distance. Try reducing the distance between units.

### Battery Compartment Issues

If the battery compartment cover does not stay shut or appears loose, ensure it is properly aligned and the locking tabs are engaged. If tabs are damaged, contact OTS customer support for assistance. Avoid using the unit if the battery compartment cannot be sealed, as this may lead to water ingress and damage.

## SPECIFICATIONS

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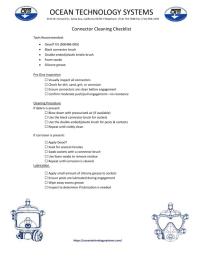
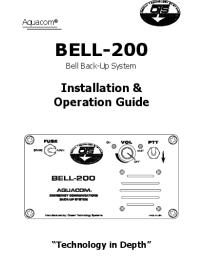
Attribute	Value
Item Package Dimensions L x W x H	3 x 3 x 1 inches
Package Weight	8 ounces
Item Dimensions L x W x H	6.9 x 6.1 x 1.7 inches
Item Weight	1.1 Pounds
Brand Name	OTS
Number of Items	1

Manufacturer	OTS
Part Number	900401-000
Telephone Type	Corded
Power Source	Corded Electric (Note: Operates on 9V battery, 'Corded Electric' may refer to charging or internal components)
Dialer Type	Single Keypad
Answering System Type	Digital
Recording Capacity	18 minutes
Conference Call Capability	basic
Multiline Operation	Multi-Line Operation

## WARRANTY AND SUPPORT

For information regarding product warranty, repairs, or technical support, please refer to the official OTS website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

### Related Documents - 900401-000

	<p><a href="#">OTS Rapid Deployment CCTV Systems: Trailers &amp; Carts - Product Overview</a></p> <p>Explore OT Systems' rapid deployment CCTV trailer and cart solutions. Features include PTZ cameras, wireless connectivity, pneumatic masts, and robust power systems for various applications like disaster areas, public events, and construction sites.</p>
	<p><a href="#">Ocean Technology Systems Connector Cleaning Checklist</a></p> <p>A comprehensive checklist from Ocean Technology Systems for cleaning and maintaining diving connectors, including pre-dive inspection, cleaning procedures for debris and corrosion, lubrication, and operational precautions.</p>
	<p><a href="#">Aquacom BELL-200: Installation and Operation Guide for Underwater Communication Systems</a></p> <p>Comprehensive guide for the Aquacom BELL-200, a single-sideband through-water acoustic telephone system. Learn about installation, operation, specifications, troubleshooting, and warranty for this diving bell emergency communication solution from Ocean Technology Systems.</p>

 <p><b>OTS Hi-Use Connector Maintenance Guide</b> Ocean Technology Systems</p> <p><b>Section 1: General Information</b></p> <p><b>Section 2: Inspection and Cleaning</b></p> <p><b>Section 3: Corrosion Treatment</b></p> <p><b>Section 4: Lubrication</b></p> <p><b>Section 5: Operational Precautions</b></p> <p><b>Section 6: Troubleshooting</b></p> <p><b>Section 7: Storage and Transportation</b></p> <p><b>Section 8: Disposal</b></p> <p><b>Section 9: Appendices</b></p> <p><b>Section 10: Glossary</b></p> <p><b>Section 11: References</b></p> <p><b>Section 12: Index</b></p>	<p><b>OTS Hi-Use Connector Maintenance Guide   Ocean Technology Systems</b></p> <p>Detailed maintenance instructions for Ocean Technology Systems (OTS) Hi-Use Connectors, covering inspection, cleaning, corrosion treatment, lubrication, and operational precautions for diving equipment.</p>
 <p><b>Aqua Lung G3000SS Diving Helmet Operations &amp; Maintenance Manual</b></p>  <p>Page 1 of 10</p>	<p><b>Aqua Lung G3000SS Diving Helmet Operations &amp; Maintenance Manual</b></p> <p>This comprehensive operations and maintenance manual provides detailed instructions, safety guidelines, technical specifications, and troubleshooting for the Aqua Lung G3000SS Diving Helmet, designed for professional diving applications.</p>
	<p><b>Kinglucky i12 User Manual and FCC Compliance Information</b></p> <p>This document provides FCC compliance information and user guidance for the Kinglucky i12 device, model number i12. It details FCC rules, potential interference, and user corrective measures.</p>