WT-MK2 Wireless Tender / Simultalk 24G
Instruction Sheet

The WT-MK2 Wireless Tender is designed to operate with any hard-wire communication system that will function in the four-wire mode and that has front-panel banana-type connectors. It comes in two parts: 1) an electronics module (WT-MK2) designed to interface with the diver communication intercom, and 2) a remote transceiver with headset w/ boom microphone (the Tender Unit).

The WT-MK2 is a radio transceiver that, when connected to a four-wire hard-wire communication intercom, will provide full duplex communications between the tender and the diver(s). The manufacturer of the full-duplex radios claims a maximum range of 1/4 mile. However, we have found that environmental (e.g., weather) conditions dramatically affect the range. We estimate a nominal range of between 75 yards and 1/4 mile.
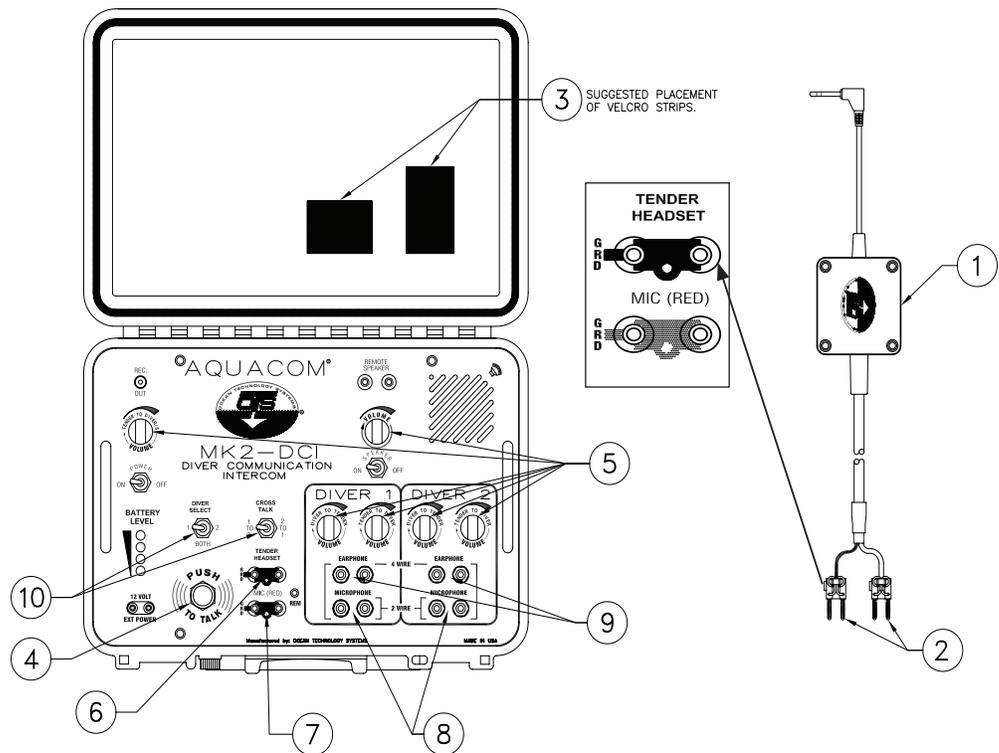

Figure 1

With fresh batteries, the Tender Unit will operate for approximately 4.5 hours. For complete specifications, refer to the user manual supplied by the manufacturer of the full-duplex radios.

Legend for Figure 1

1) WT-MK2 main housing
2) Banana plugs (Mic/Ear)
3) Velcro® connectors to attach radio(s)
4) 2-wire Push-to-Talk (PTT) button
5) Volume control knobs

6) Tender headset input jack
7) Tender mic jack
8) 2-wire microphone jacks
9) Diver's earphone jacks
10) Diver select switch

Operating Instructions

WT-MK2 System Set-up

1) Plug the RED banana plug of the WT-MK2 module into the Microphone banana jack for the tender (preferred) or one of the divers if necessary, located on the Hard-Wire Intercom.
2) Plug the BLACK banana plug of the WT-MK2 module into the Microphone banana jack for the tender (preferred) or one of the divers if necessary, located on the Hard-Wire Intercom.
3) Plug the Stereo plug of the WT-MK2 module to the mic/earphone jack of the Remote

Simultalk 24G unit.
4) Plug headset into the mic/earphone jack of the Master Simultalk 24G unit.

WT-MK2 System Operation

1) Turn OFF the speaker switch of the Hard-Wire Intercom.
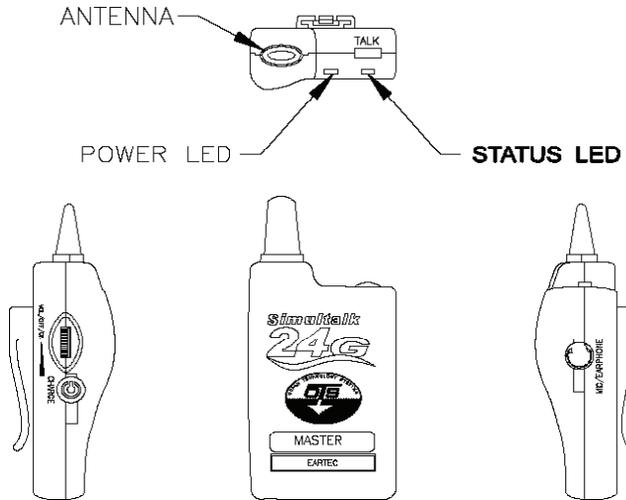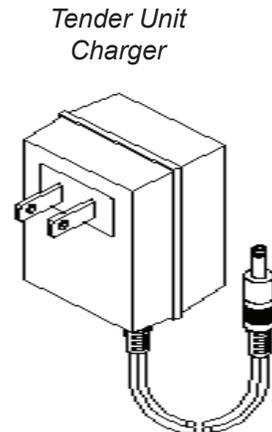2) Turn Diver select switch of the Hard-Wire Intercom to "BOTH" position.

Figure 2

Tender Unit Charger

Figure 3

3) Turn ON the Hard-Wire Intercom.
4) Turn ON both the Master and Remote Simultalk 24G units. Verify that the power indicator and status LEDs of the Simultalk 24G units are lit.
5) Press TALK button of the Simultalk 24G unit to change the color of the Status unit.
6) The communication capability of the WT-MK2 system is determined by the color of the STATUS LED of the Simultalk 24G unit indicator as listed below:
    -- RED: Receive only; Mic mute
    -- GREEN: Transmit only; Earphone mute
    -- AMBER: Transmitting and receiving
7) Adjust the Simultalk 24G mic/earphone volume control, Tender headset, and Diver's ear/mic volume controls of the Hard-Wire Intercom for comfortable sound level.

Charging the Simultalk 24G Units

The batteries that provide power to the Simultalk 24G units do not need to be "drained." Simply follow the procedure below within 48 hours of the first use:
1) All Simultalk 24G units should be OFF.
2) Plug AC charger/adapter into a wall outlet and attach the Simultalk 24G unit charging jack.
3) Allow the batteries to charge for 10 to 12 hours.
       NOTE: To prevent overheating of the charger and to prevent damage to the charge
               circuit, do not leave the charger plugged in for more than 12 hours.
4) A fully charged battery will operate up to 4.5 hours.

Refer to the Library page of our Web site, www.otscomm.com, for a list of
any changes made to this manual since its publication.