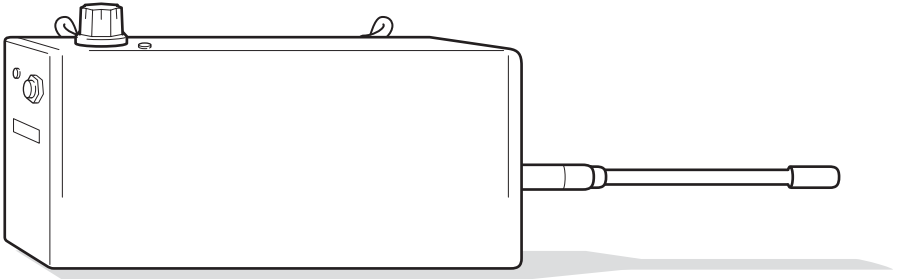


IMPORTANT INFORMATION: File in your maintenance records

stryker[®]

Instruments

Wireless Communication System



Manufactured for:

Stryker Instruments
4100 E. Millham
Kalamazoo, MI 49001 (USA)
800-253-3210
269-323-7700

www.stryker.com

Important Information

The words WARNING, CAUTION and NOTE carry special meanings and should be carefully reviewed.

WARNING: The personal safety of the patient and/or user may be involved. Disregarding this information could result in injury to the patient and/or operating room staff.

CAUTION: These instructions point out special service procedures or precautions that must be followed to avoid damaging the device.

NOTE: This provides special information to make maintenance easier or important instructions more clear.



This symbol is used to alert the reader to important safety and precautionary information. When displayed on device, refers user to a accompanying instructions and identifies safety and precautionary information.

Compliance Statements

Federal Communications Commission (FCC)

FCC ID: Q9R-0400-615

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this equipment may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: FCC regulations provide that changes or modifications not expressly approved by Stryker Instruments could void your authority to operate this equipment.

FCC Radiation Exposure Statement for Portable Devices

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

- Use of this system outside the US may be prohibited where it is subject to government regulation.

Safety*



WARNINGS:

- Before using any system component or any component compatible with this system, read and understand the instructions. Pay special attention to WARNING information. Become familiar with system components prior to use.
- Upon initial receipt and before each use, operate system components and inspect for damage. DO NOT use if damage is apparent. Perform recommended maintenance as indicated in the instructions for use. Only trained and experienced professionals should maintain this instrument.
- Use only Stryker approved accessories. Other accessories may result in increased emission or decreased immunity of the system. Contact your Stryker sales representative for a complete list of accessories. DO NOT modify any accessory.
- Equipment is not suitable for use in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide.
- DO NOT use a radio while it is still charging. If additional power is needed, use the supplemental battery provided in the extended life battery set. Failure to comply may result in patient and/or operating room staff injury.

*For further information, contact your Stryker Instruments sales representative or Customer Service at 1-800-253-3210.

Description

The Wireless Communication System may be used in conjunction with the Stryker Turbo 5 Communication Helmet. The Turbo 5 Communication Helmet is a component of the Personal Protection System which is intended as a personal protection system to provide a barrier between the operating environment and the members of the surgical team in order to help protect against contamination and/or exposure to infectious body fluids and harmful microorganisms.

The Wireless Communication System facilitates simultaneous communication between as many as four people where communication may be compromised by ambient noise or muffled by protective surgical gear. The system allows hands-free direct communication for surgical team members within the operating room and for team members in different work areas. To facilitate clarity, ambient noise is filtered by noise canceling microphones. Under optimal conditions, transmission range extends to .125 mile.

The system requires a Digitally Matched Set of Radios which are provided with four AC Charger/Adaptors and a Multiple Outlet Power Strip. Voice transmits through Turbo 5 Communication Helmets or Stand Alone Headsets. A Supplemental Battery is available with the Extended Life Battery Set and may be used to double talking time.

Accessory Information



WARNING: Use only Stryker approved accessories. Contact your Stryker sales representative for a complete list of accessories. DO NOT modify any accessory. Failure to comply may result injury.

NOTE: See instructions for use supplied with Turbo 5 Communication Helmet for specific instructions and information.

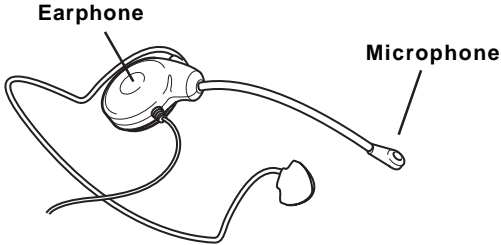
Turbo 5 Communication Helmet	0400-615-000
Digitally Matched Set of Radios with Charging Accessories ...	0400-615-030
Stand Alone Headset	0400-615-640
Extended Life Battery Set	0400-615-375
Sony® Ear Phone - Right	0400-615-600
Sony® Ear Phone -Left	0400-615-610
Panasonic® Ear Phone - Right	0400-615-620
Panasonic® Ear Phone - Left	0400-615-630

NOTE: See instructions for use supplied with Turbo 5 Communication Helmet for specific instructions and information.

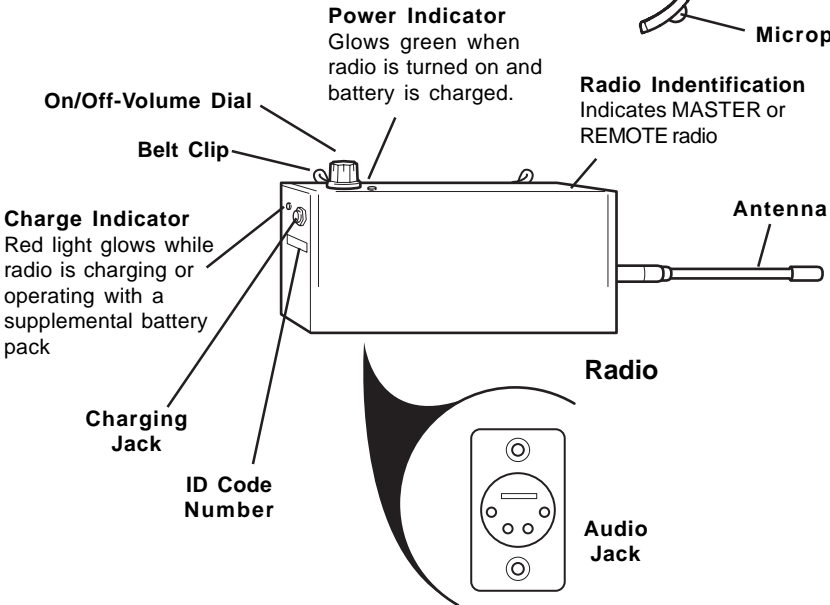
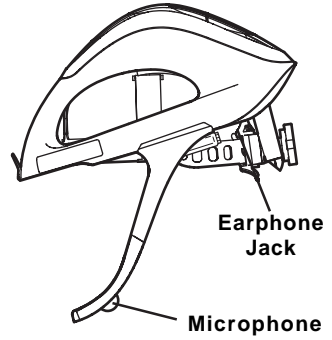
Sony is a registered trademark of Sony Corporation.
Panasonic is a registered trade mark of Matsushita Industrial Electric Corp. LTD.

System Features and Functions

Stand-alone Headset



Communication Helmet



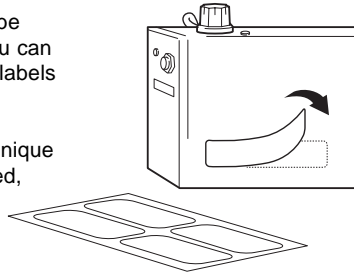
NOTE: To communicate properly, all radios in the group must be components of a matched set which are identified by the same ID code number.

Instructions

Color Code Your Radios

NOTES:

- The radios in this set are digitally matched and must be retained as a set. Color ID labels are provided so you can color code each radio in the set with the same color labels for quick reference.
- If your facility uses multiple sets of radios, select a unique color to differentiate each set. If colors are duplicated, write on the labels to further identify matched set.



1. Select one label set. For example, red.
2. Apply the label marked MASTER on the master radio. Select the labels marked REMOTE from the same label set and apply them to the remote radios.

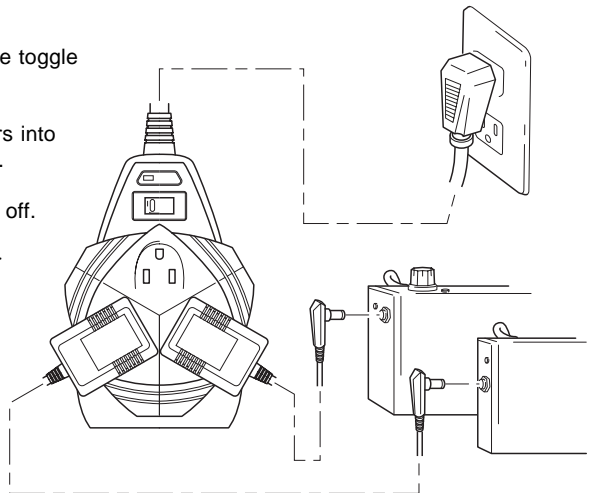
Charging the Radios and Supplemental Battery

CAUTIONS:

- Do not substitute the AC charger/adaptors or power strip as damage may occur to the battery.
- Do not exceed 16 hours of charging time. For optimum battery performance and life, do not leave a radio or supplemental battery connected to the AC charger/adaptor after reaching full charge.

NOTE: Radios must be turned off while charging.

1. Plug the power strip into an AC wall outlet.
2. Turn the power strip on. The toggle switch will illuminate.
3. Plug the AC charger/adaptors into the power strip receptacles.
4. Ensure each radio is turned off.
5. Plug the AC charger/adaptor connectors firmly into each radio and/or supplemental battery jack. The charge indicator will illuminate to indicate a charging connection.
6. Allow radios and/or supplemental batteries to charge for a minimum of 12 hours.

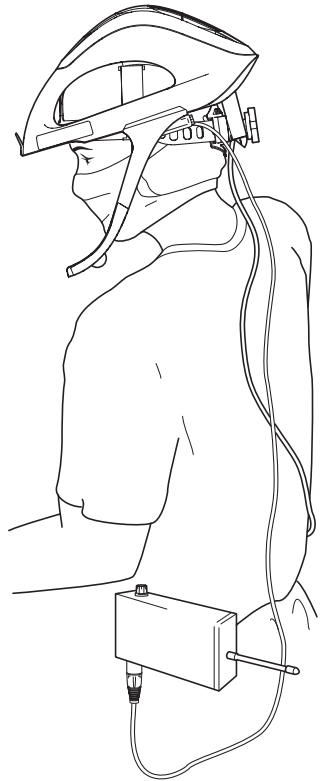


Using the Radios

NOTES:

- Radios must fully charged before use.
- Radios must be from the same digitally matched set. A matched set will have the same code number and color code if you've opted to use the color code labels.
- The master radio must be turned on prior to turning on the remote radios and remain in proximity to other radios.
- Communication will be disrupted if the master radio is turned off. Remote radios may be turned off and on without disrupting other team members.
- Audio performance will become erratic with excessive interference such as squeaking or buzzing if battery power becomes too low.
- A supplemental battery may be used to prolong communication. See instructions for [Using a Supplemental Battery](#).

1. Verify that each radio has the same ID number to ensure a digitally matched set. Additionally, if color code labels were used, they will facilitate quicker identification of a digitally matched set.
2. Make sure each radio is turned off.
3. Put on the headsets/helmets. If using the Turbo 5 Communication Helmet, refer to instructions supplied with the helmet. If using a stand-alone headset, adjust the boom so that the microphone is approximately 1.0 inch away from the mouth.
4. Hang radios from the waistband on the left hip to ensure free arm movement and convenient access to the on/off/volume dial.
5. Plug the headset/helmet cable into each radio.
6. Initially turn on the master radio with the on/off-volume dial keeping the volume low. The power indicator will immediately illuminate. Wait 15 seconds then turn on each remote radio.
7. Verify that communication is established by having team members speak into their microphones. Adjust the on/off-volume dial to set volume at a comfortable level.
8. If using a helmet, put on the Steri-Shield togas or hoods. Refer to instructions supplied with the togas and hoods.

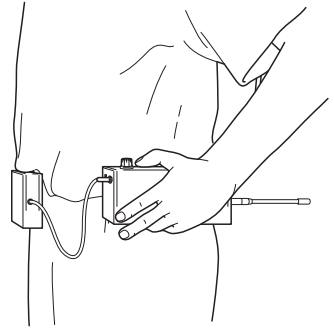


NOTE: Communication will be disrupted if the master radio is turned off. To reestablish communication, turn each radio off. Turn the master radio on again and wait 15

seconds then turn on each remote radio. Communication will resume.

Using the Supplemental Battery Pack

1. Hang the supplemental battery from the waistband as shown. Install the cable into the radio jack and thread the collar to secure the connection. The radio's charge indicator will illuminate while the supplemental battery is in use.



Troubleshooting Guidelines

<u>PROBLEM</u>	<u>CAUSE</u>	<u>SOLUTION</u>
AC charger/adaptor plug will not fully insert into the charger jack.	Damaged component.	Return to Stryker for repair.
Charge indicator does not illuminate when the adaptor/charger is plugged into the radio or supplemental battery.	Power strip is turned off.	Reset power strip toggle switch.
	Charger not plugged in.	Check electrical connections.
	Charger defective.	Return to Stryker for repair.
Static or interference.	Talk range has been exceeded.	Keep team members within operating range.
	Low Battery	Recharge battery or use supplemental battery.
Messages not transmitted.	Master radio has been turned off.	Turn all radios off. Turn master radio on. Wait 15 seconds then turn on remote radios.
	Radios are not from the same matched set.	Confirm radios have the same code
	Master radio is out of range.	Make sure is in proximity to other radios.
	One or more batteries are expended.	Use supplemental battery or recharge batteries.

This product is not field repairable. In case of operating difficulties, return this product to Stryker Instruments for repair. For more information, contact your Stryker sales representative or call Stryker Customer Service at 1-800-253-3210.

Cleaning Recommendations

CAUTIONS:

- Do not immerse.
- Do not autoclave.
- Do not use alcohol or harsh cleansers as they can damage the casing and leak inside and cause permanent damage.

1. Turn radios off.
2. Detach radios from helmets and/or headsets.
3. Use a soft cloth dampened in water and a mild detergent to clean the exterior surface of the radios and supplemental batteries.
4. Jacks may be wiped with a dry, lint-free cloth.

Disposal

The radio and supplemental battery contain Nickel Metal Hydride. Check with your local environmental protection agency for special disposal restrictions.

Specifications

Model	Master and Remote Radios
Size:	2.5 in. [6.4 cm] height 5.1 in. [12.9 cm] width 2.5 [6.4 cm] deep
Weight:	14 oz. [0.4 Kg]
Modulation:	FM
Frequency Range:	902-928 MHz with over 256,000 codes
Tuning:	Auto tuning
Power:	6 V NiMH rechargeable battery
Battery Life:	2200 mAh, 6-8 hours
FCC License:	Part 15, no license required
Transmit Power:	300 mV/m
Intermediate Frequency	
Bandwidth:	<500 KHz
Antenna:	1/4 wave helical
Operating Range:	.125 mile or 201 m (line of sight)
Temperature Range:	-40° C to + 80°C
Audio Connector:	4 conductor XLR Type (chassis mount)
Microphone Types:	Noise cancelling electret microphone

Model	Supplemental Battery
Size:	2.4 in. [6.1 cm] height 4.4 in. [11.2 cm] width 1.2 in. [3 cm] deep
Weight:	12.4 oz. [0.35Kg]
Power:	6 V NiMH rechargeable battery
Battery Life:	2200 mAh, 6-8 hours
Temperature Range:	-40° C to + 80°C

Specifications are approximate and may vary slightly from unit to unit.

This device is not field repairable.

