Intelli-Connect User's Guide

1. List of Symbols

\triangle	Caution or Warning
*	Type BF Applied Part
((*))	Non-Ionizing Radiation
•••	Manufacturer
X	Do Not Dispose with Regular Household Waste
i	Consult Instructions for Use
SN	Serial Number
REF	Re-Order Number

2. Introduction

The Intelli-Connect is designed to be a hands-free triggering device, used exclusively with the NESS H200 Wireless Hand Rehabilitation System. Users of the H200 Wireless System can use the Intelli-Connect to trigger the stimulation unit on their H200 Wireless Orthosis through simple movements of the jaw.

This guide includes important safety information, describes the components, and reviews how to set up, operate and maintain the Intelli-Connect. Be sure to read this guide before using your Intelli-Connect.

2.1 Package Contents:

Intelli-Connect Earpiece
Intelli-Connect Charge-Cradle
W-Cable (Charging Cable)
Intelli-Connect User's Guide

3. Safety Information

3.1 Intended Use

The Intelli-Connect is a hands-free triggering device used exclusively with the H200 Wireless Hand Rehabilitation System. The Intelli-Connect is used to trigger the stimulation on the H200 Wireless Orthosis through simple jaw movements.

3.2 Contraindications

Do not use the Intelli-Connect if you suffer from Temporamandibular Joint Dysfunction (TMJD) or

other jaw-related discomfort.

Do not use the Intelli-Connect if you suffer from enamel weakness or tooth pains.

3.3 Precaution

Your H200 Wireless System must be setup prior to using the Intelli-Connect. Consult the H200 Wireless User's Guide for details.

The Intelli-Connect is intended to be used only with the H200 Wireless System. Be sure to follow all safety information described in the H200 Wireless User's Guide.

Any dental-wear such as dentures or retainers must be firmly fixed in-place prior to using the Intelli-Connect.

The Intelli-Connect Earpiece should only be worn over the ear of the patient for whom it is fitted. It should not be worn by anyone else or on any other part of the body.

3.4 Warnings

Do not use the Intelli-Connect while driving a motor vehicle, operating machinery or performing other potentially dangerous tasks.

Make sure that there is no debris or obstructions in the Charge-Cradle prior to inserting the Earpiece.

Do not force the Earpiece into the Charge-Cradle. Ensure that the orientation is correct.

Inspect the Earpiece prior to wearing. Do not use if any cracks in the plastic or punctures in the sensor-arm are discovered.

Never manipulate the Earpiece's sensor-arm in excess of what is required. Doing so can damage the Earpiece.

Never click the teeth together in a manner that is uncomfortable, or with excessive force that may damage the teeth or jaw. Only gentle clicking should be required to activate the Intelli-Connect.

External vibrations may result in the Intelli-Connect Earpiece causing unintended triggers of the H200 Wireless Orthosis.

Never immerse any component of the Intelli-Connect in water or any other liquid.

Do not wear the Intelli-Connect Earpiece over swollen, infected, or inflamed areas. Use on intact, clean, healthy skin only.

The Intelli-Connect Earpiece should not be worn for periods longer than ten hours. Prevent skin irritation by periodically removing the Earpiece to ventilate the skin around the ear.

If skin irritation occurs around the ear, remove the Earpiece immediately. Contact your clinician or dermatologist, and Bioness or your local distributor. Resume use only when the skin is completely healed.

Never attempt to service or repair any component of the Intelli-Connect. Doing so will void the warranty. If individual components are broken, contact Bioness or your local distributor for replacement components.

3.5 Environmental Conditions Affecting Use

The Intelli-Connect may be interfered by other equipment, even if that equipment complies with IEC (International Electrotechnical Committee) emission requirements and FCC (Federal Communications Commission) rules.

The Federal Aviation Administration rules require that all radio-transmitting devices be turned off during flight.

Do not use the Intelli-Connect within three feet of short-wave or microwave therapy equipment.

4. Intelli-Connect Components

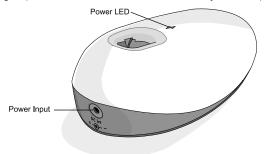
4.1 W-Cable (Charging Cable) (Model Number: L3P-5A00)

When using the Intelli-Connect with the H200 Wireless System, the W-Cable is used in place of the Y-Cable, which is supplied as part of the H200 Wireless System Kit.



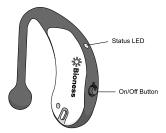
4.2 Intelli-Connect Charge-Cradle (Model Number: ICT-1200)

The Charge-Cradle is used exclusively for charging the Intelli-Connect Earpiece. It receives 5V DC using the W-Cable and the system charger (included with the H200 Wireless System Kit).



4.3 Intelli-Connect Earpiece (Model Number: ICT-1100)

When properly fitted over the ear, the Earpiece will detect clicks of the teeth and wirelessly trigger the stimulation unit on the H200 Wireless Orthosis.



On/Off Button:

To turn on: Press the On/Off button once. The Status-LED will blink green, and the Earpiece will beep.

To turn off: Press and hold the On/Off button for 2 seconds until the Status-LED turns yellow, then release the button.

Status LED: Indicates the status of the Earpiece according to the following tables:

Earpiece Charging (In Charge-Cradle)					
Status LED Display	Definition	Required Action			
Alternating Yellow & Green	Battery is charging	Wait for the Earpiece to charge (up to 2-4 hours).			
Solid Green	Battery is fully charged	Remove the Earpiece from the Charge-Cradle.			
Solid Red	Battery fault	Remove the Earpiece from the Charge-Cradle and discontinue use. Contact Bioness or your local distributor.			

Earpiece In Use (Not in Charge-Cradle)					
Status LED Display	Definition	Required Action			
Flashing Green	Normal operating mode	None			
Solid Yellow	Registration mode: Earpiece is searching for nearby H200 Wireless Control-Unit	Make sure that a H200 Wireless Control-Unit that has either been previously registered or is in registration-mode is within 3 meters (10 feet) of the Earpiece.			
Solid Green	Registration successful	None.			
Intermittent Red	Low battery	Recharge the battery following the charging instructions in this guide.			
Solid Red	Hardware fault	Discontinue use. Contact Bioness or your local distributor.			

5. Instructions for Use

5.1 Charging Instructions

The Earpiece contains a rechargeable battery, which must be charged prior to use. Avoid allowing the battery to fully deplete. Daily charging of the Earpiece is recommended.

↑ CAUTION: Only use a system charger supplied by Bioness.

To charge the Intelli-Connect Earpiece:

1. Connect the W-Cable to the system charger from the H200 Wireless System Kit. Connect one of the ends on the W-Cable to the power input on the Intelli-Connect Charge-Cradle. Plug the system charger into a power outlet, the power LED on the Charge-Cradle will light green.

NOTE: The H200 Wireless Orthosis, Control-Unit and Intelli-Connect Earpiece can be charged simultaneously. Use the other two ends of the W-Cable to connect to the Orthosis and Control-Unit. Refer to the H200 Wireless User's Guide for more information.

2. Insert the Earpiece into the Charge-Cradle. Do not force the Earpiece into the Charge-Cradle, ensure that the orientation is correct. See Figure 5-1.



Figure 5-1. Correct orientation of Earpiece in Charge-Cradle.

3. The Status LED on the Earpiece will alternate between yellow and green while charging. When the Earpiece LED is lit solid green, the battery is fully charged and can be removed from the Charge-Cradle. The charging process should last approximately two to four hours.

5.2 Registration Instructions

For the Intelli-Connect to work with an H200 Wireless System, it must first be registered with the H200 Wireless Control-Unit. Registration of the Intelli-Connect Earpiece with the H200 Wireless Control-Unit should only have to be done once. Once registered, the Earpiece and Control-Unit should always recognize each other provided they are both turned-on and within 3 meters (10 feet) of one another.

Note: When registering the Earpiece and Control Unit, make certain that there are no other H200 Wireless systems within 3 meters (10 feet) of the components being registered.

To register the Intelli-Connect:

- 1. Verify that both the Intelli-Connect Earpiece and the H200 Wireless Control-Unit are turned off.
- 2. Set the H200 Wireless Control-Unit into registration mode. Simultaneously press and hold the trigger button and the minus button on the Control-Unit until the Control-Unit beeps. Refer to the H200 Wireless User's Guide for more detailed instructions.
- 3. Turn on the Intelli-Connect Earpiece by pressing the On/Off Button.
- 4. With the H200 Wireless Control-Unit now in registration mode, and the Intelli-Connect Earpiece turned on, registration will happen automatically.
- 5. When registration is complete the Status LED on the Earpiece will be green and a "C" will appear in the digital display on the Control Unit.

Note: If an "E" appears in the digital display on the Control Unit, a registration error has occurred. Turn the Control Unit and Earpiece off and repeat the registration process.

5.3 Fitting Instructions

The Earpiece is designed to be fitted once, with only minor adjustments thereafter.

To fit the Earpiece:

- 1. Hang the Earpiece over the ear such that the rubber sensor-arm faces forward. See Figure 5-2.
- 2. Gently move the ball-end of the sensor-arm until it is in contact with the inside of the ear's tragus. See Figure 5-2.

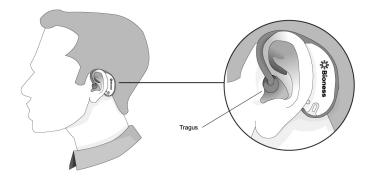


Figure 5-2. Correct fitting position of the Intelli-Connect Earpiece.

5.4 Operating Instructions

Make sure that the Earpiece and the Control Unit have been fully charged prior to operation. Refer to the charging instructions in this guide and the H200 Wireless User's Guide.

To operate the Intelli-Connect:

- 1. Turn on the Intelli-Connect Earpiece by pressing the On/Off Button, the Earpiece will beep once. Apply the Earpiece to the ear.
- 2. Turn on the H200 Wireless System, and use the H200 Wireless Control-Unit to select the desired stimulation program.
- 3. Gently click teeth together to trigger the Earpiece. This will, in turn, activate the current stimulation program on the H200 Wireless Orthosis.

Note: It is recommended that the Intelli-Connect be turned off when eating.

6 Cleaning Instructions

6.1 Cleaning Instructions

All Intelli-Connect components may be cleaned by wiping with a damp cloth. Use water only. Do not use detergents or other cleaning agents unless otherwise specified in this guide.

CAUTION: Ensure that the W-Cable and Charge-Cradle are unplugged and the Earpiece is turned off prior to cleaning. Ensure they are completely dry prior to using again.

6.2 Disinfecting Instructions

The Intelli-Connect Earpiece may be disinfected using CaviWipes™, or wipes saturated (but not dripping) with 70% isopropyl alcohol (IPA) per the following instructions:

- 1. Use one saturated disinfectant wipe or cloth to thoroughly wet the outer surfaces of the Earpiece.
- 2. Use a second saturated disinfectant wipe or cloth to remove any surface contaminants (soil, etc.) that would impede the disinfectant's effectiveness if not removed.
- 3. As needed, use additional saturated disinfectant wipes or cloths to keep the surfaces wet for 3 minutes.

CAUTION: Do not use other cleaning/disinfecting agents such as a diluted bleach mixture, or other disinfecting wipes. Doing so may damage the Earpiece.

7. Troubleshooting

Issue	Solution
Irregular Reponse from Intelli-Connect	Adjust the Earpiece's sensor-arm so that the sensor-ball is in contact with the ear's tragus. Refer to the Fitting Instructions. Ensure that the registered Control Unit and Earpiece are within 3 meters (10 feet) of each other.
No Response from Intelli-Connect	Make sure the Earpiece and Control Unit are charged. Repeat the registration process for registering the Earpiece and Control Unit. Inspect the sensor–arm for signs of damage. Contact Bioness or your local distributor.

Refer to the H200 Wireless User's Guide for additional troubleshooting information.

9. Technical Specifications

9.1 Intelli-Connect Specifications

Dimensions	Earpiece: 6.1cm x 2.2cm x 1cm Charge-Cradle: 10.5 cm x 7 cm x 4.1 cm		
Weight	Earpiece: 10 grams Charge-Cradle: 55 grams		
Battery Type	Rechargeable Lithium-Polymer		
Frequency	2.4 GHz, ISM Band		
Environmental Ranges	Transport and storage temperature: -25 C to +70 C (-13 F to +158 F) Operating conditions temperature: 5 C to 40 C (41 F to 104 F) Operating conditions relative humidity: 15% to 93% Shipping pressure: 30 kPa (equivalent to approximately 9,100 meters above sea-level) for up to 10 hours Operating Pressure: 101 kPa to 81 kPa (equivalent of sea-level to approximately 1,950 meters) Ingress Protection Rating: IPx2		
FCC ID Number	QIQ-H200W-ICT-V01		

9.2 Electromagnetic Compatibility

The Intelli-Connect has been tested for electromagnetic compatibility according to the IEC 60601-1-2 international standard.

The Intelli-Connect complies with part 15 of the FCC regulations. Operation is subject to the following two conditions:

- 1. This device 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 Bioness Inc. could void authority to operate.

The Intelli-Connect contains electrical components that should not be disposed with regular household waste. Contact your local city office, or household waste disposal service for information about where to safely drop-off waste electrical equipment for safe processing and recycling.

Aspects of this device are covered by several patents and patent applications, including US Pat 6,961,623.

To order replacement components, contact Bioness or your local distributor with the model number of the component.

Rx Only (US Only)

© 2012 Bioness Inc.

Worldwide Corporate Office Bioness Inc. 25103 Rye Canyon Loop Valencia, CA 91355 USA 800-211-9136 www.bioness.com

Manufactured by Rehabtronics, Inc. #4352, 10230 Jasper Avenue Edmonton, AB Canada, T5J4P6

CaviWipes™ is a trademark of Metrex Research, Orange, CA.

NESS[®], NESS H200[®], NESS H200[®] Wireless, Bioness, the Bioness Logo[®] and LiveOn[®] are trademarks of Bioness Inc. in the United States or other countries. | www.bioness.com | Rx Only (US Only).

612-00619-001 Rev. 1