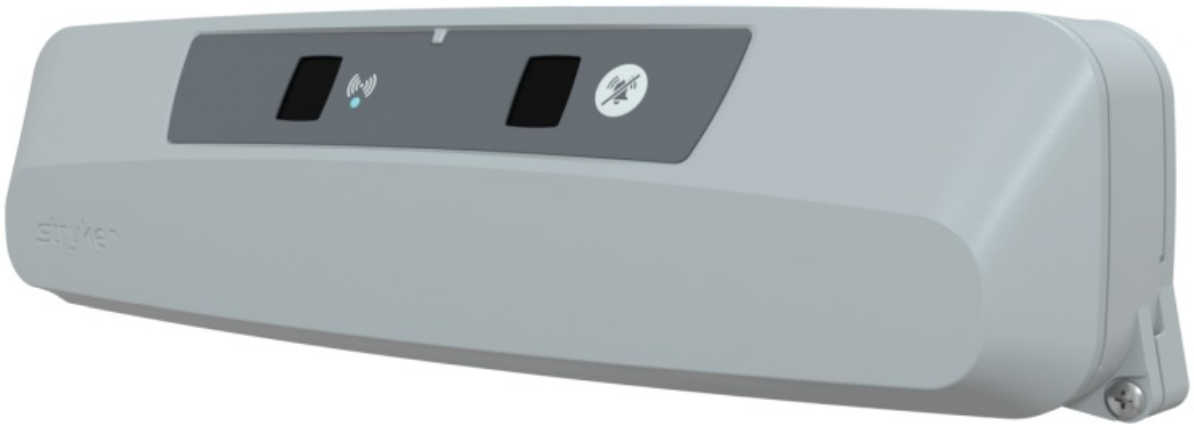
stryker 5212-009-210AB Secure Connect Instruction Manual

Contents

stryker 5212-009-210AB Secure Connect



Product Specifications

- Model: 521200380100
- Revision: AB.0
- Year: 2023
- IP Rating: IPX4
- Electrical Class: Class II

Product Usage Instructions

Installation

1. Review the installation checklist provided in the manual.
2. Securely install the product following the instructions for Secure Connect.

Operation

1. Ensure you understand the definitions of WARNING, CAUTION,and NOTE as described in the manual.
2. Follow all safety precautions outlined in the manual.

FAQ

- **What do the symbols in the manual mean?**
  The symbols in the manual provide important information such as warnings, cautions, and specific certifications related to the product's safety and compliance.
- **How do I ensure proper installation of the product?**
  Follow the installation checklist provided in the manual and securely connect the device using Secure Connect as instructed.
- **What should I do in case of a WARNING or CAUTION situation?**
  If a WARNING situation arises, take immediate action to avoid potential death or serious injury. For a CAUTION situation, exercise caution to prevent minor or moderate injury or damage to the product.

Secure® Connect
Operations/Maintenance Manual

Symbols

	Refer to instruction manual/booklet
	Consult instructions for use
	General warning
	Caution
	Non-ionizing radiation
	China RoHS with declarable substances
REF	Catalogue number
SN	Serial number
MD	European medical device
CE	CE mark
UK CA	UK Conformance Assessment mark
	Importer
UDI	Unique device identifier
EC REP	Authorized representative in the European Community
CH REP	Authorized representative in Switzerland
US Patents	For US Patents see www.stryker.com/patents
	Manufacturer
	Date of manufacture

IPX4	Protection from liquid splash
	Class II electrical equipment: equipment in which protection against electric shock does not rely on basic insulation only, but in which additional safety precautions such as double insulation or reinforced insulation are provided, there being no provision for protective earthing or reliance upon installation conditions.
	Medical Equipment Classified by Underwriters Laboratories Inc. With Respect to Electric Shock, Fire, and Mechanical Hazards Only in Accordance with ANSI/AAMI ES60601-1:2005/(R)2012 and A1:2012 C1:2009/(R)2012 and A2:2010/(R)2012, CAN/CSA-C22.2 No. 60601-1:14, IEC 60601-2-52:2009/A1:2015, CAN/CSA-C22.2 No. 60601-2-52:11 with Amendment 1:2017.
	South Africa Wireless Conformity mark
	Mexico Wireless Conformity mark (NOM)
	In accordance with European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) as amended, this symbol indicates that the product should be collected separately for recycling. Do not dispose of as unsorted municipal waste. Contact local distributor for disposal information. Ensure infected equipment is decontaminated prior to recycling.

Warning/Caution/Note Definition
The words WARNING, CAUTION, and NOTE carry special meanings and should be carefully reviewed.

WARNING
Alerts the reader about a situation which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

CAUTION
Alerts the reader of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the product or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

Note – Provides special information to make maintenance easier or important instructions clearer.

Summary of safety precautions

Always read and strictly follow the warnings and cautions listed on this page. Service only by qualified personnel.

WARNING

- Portable RF communications equipment, including peripherals such as antenna cables and external antennas, should be no closer than 12 inches (30 cm) to any part of the SSeeccuurree CCoonnnneecctt locator, including cables specified by the manufacturer.
- Avoid stacking or placing equipment adjacent with other equipment to prevent improper operation of the product. If such use is necessary, carefully observe stacked or adjacent equipment to make sure that they operate properly.
- The use of accessories, transducers, and cables, other than those specified or provided by the manufacturer, could result in increased electromagnetic emissions or decreased electromagnetic immunity and result in improper operation.

CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
- Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.
- Always match the dip-switches on SB1 and SB2 to the connected product configuration to avoid the risk of head wall damage.
- Always match the dip-switches of a product to the head wall configuration if a nurse call communication cable needs to be connected to avoid the risk of head wall damage.
- Always match the dip-switches on SB1 and SB2 to the product configuration to avoid the risk of head wall damage.
- Do not clean, disinfect, service, or perform maintenance while the product is in use.
- Always unplug the power cord from the wall outlet when large spills occur near the circuit boards and cables. Clean up the fluid, and inspect the product. Fluids can cause unpredictable operation and decreased functionality of any electrical product. Do not return the product to service until dry and tested for safe operation.
- Always wipe down with clean water (or 70% isopropyl alcohol, if using VViirreexx® TB) and dry each product after disinfecting. Some disinfectants are corrosive in nature and may cause damage to the product. If you do not rinse and dry the product, you may leave a corrosive residue on the surface of the product. This corrosive residue could cause premature degradation of critical components. Failure to follow these disinfecting instructions may void your warranty.

Introduction

This manual assists you with the operation or maintenance of your Stryker product. Read this manual before operating or maintaining this product. Set methods and procedures to educate and train your staff on the safe operation or maintenance of this product.

CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
- Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.

Note

- This manual is a permanent part of the product and should remain with the product even if the product is sold.
- Stryker continually seeks advancements in product design and quality. This manual contains the most current product information available at the time of printing. There may be minor discrepancies between your product and this manual. If you have any questions, contact Stryker Customer Service or Technical Support at 1-**800-327-0770**.

Product description
The Stryker Model 521200380100 Secure® Connect is a cable-free nurse call solution. Secure Connect allows for patient nurse communication via the nurse call button, room controls, and TV controls without the need for any cables or wires.

Contraindications
None known.
Expected service life
The Secure Connect has a 10 year expected service life under normal use conditions and with appropriate periodic maintenance.
The battery has a two year expected service life under normal use conditions.

Disposal/recycle
Always follow the current local recommendations and/or regulations governing environmental protection and the risks associated with recycling or disposing of the equipment at the end of its useful life.

Specifications

Length	16.3 in.	41.1 cm
Width	3.3 in.	8.4 cm
Depth	4.3 in.	10.9 cm
Weight	4 lb	1.8 kg

System voltage rating	AC supply: 100-240 VAC, 50/60 Hz, 0.8A
	Secure Connect: 18 VDC, 1.67A
Wireless connection	Uses infrared (IR) LED and Bluetooth based on Stryker pr oprietary communication scheme **Note –** Minimum signal strength of the **Secure Connect** must be within 3dB of the connected product. Make sure t he product is within 5.5 ft (1.7 m) of the **Secure Connect**.

Stryker reserves the right to change specifications without notice.
Specifications listed are approximate and may vary slightly from product to product or by power supply fluctuations.

Environmental conditions	Operation	Storage and transportation
Ambient temperature	95 °F (35 °C) 50 °F (10 °C)	140 °F (60 °C) -40 °F (-40 °C)
Relative humidity (non-condensing)	75% 30%	95% 10%
Atmospheric pressure	106 *kPa* 70 *kPa*	106 *kPa* 50 *kPa*

In accordance with the European REACH regulation and other environmental regulatory requirements, the

components that contain declarable substances are listed.

Description	Number	Substance of very high concern (SVHC) chemical name
Wallside room interface board	521200380950	Decamethylcyclopentasiloxane, do decamethylcyclohexasiloxane, lead , octamethylcyclotetrasiloxane

Bluetooth radio specifications

Item	Specification – Chipset WT32i (Silicon Labs)			Unit
	Channel	Min	Max	
Operating frequencies	79	2.4	2.4835	GHz
Receiving bandwidth	Not applicable	1		MHz
Maximum ERP	Not applicable	-24.148		dBW

Contact information

Contact Stryker Customer Service or Technical Support at: 1- **800-327-0770**.
Stryker Medical
3800 E. Centre Avenue
Portage, MI 49002
USA

Note — The user and/or the patient should report any serious product-related incident to both the manufacturer and the Competent authority of the European Member State where the user and/or patient is established.
To view your operations or maintenance manual online, see **https://techweb.stryker.com/**.
Have the serial number (A) of your Stryker product available when calling Stryker Customer Service or Technical Support. Include the serial number in all written communication.

Serial number location
The Stryker serial number and bed bay identification number (BBID) label (A) is located on the bottom of the product (Figure 1).

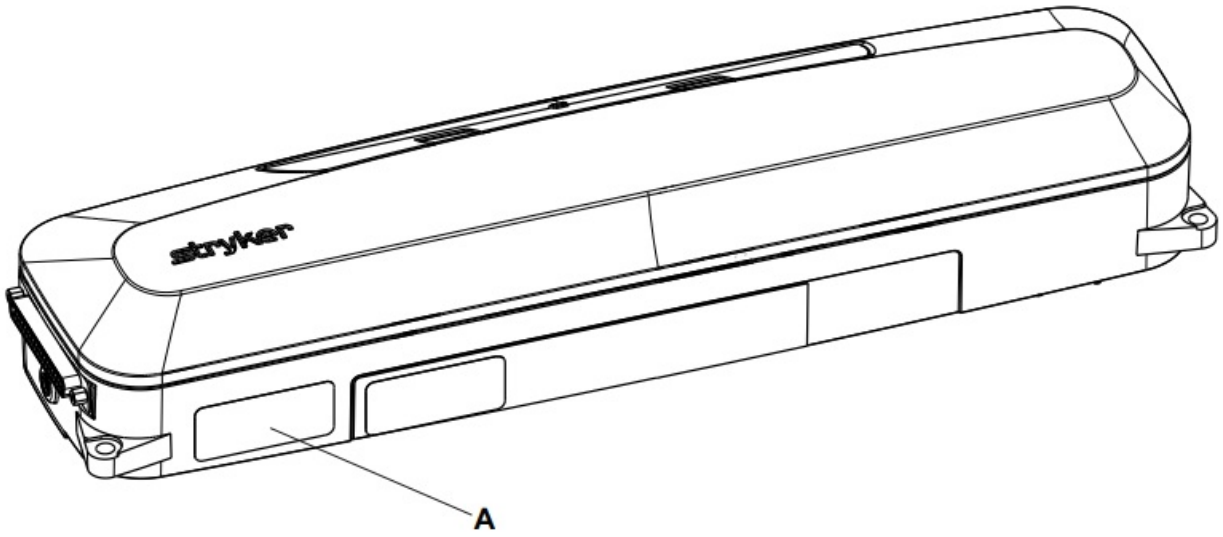


Figure 1 – Stryker serial number and BBID location

Installation

Installing Secure Connect
Tools required:

- #2 Phillips screwdriver
- #1 Phillips screwdriver
- Straight pick
- Tape measure
- Level
- Pencil
- Tools required for hospital supplied fasteners

Procedure:

1. Record the Secure Connect BBID (Serial number location (page 5)) and room number/patient position on the Secure Connect association form (page 22).
2. Using a straight pick, configure the SB1 and SB2 dip-switches (A) to match the nurse call system and nurse call communication cable (Figure 2).
   CAUTION – Always match the dip-switches on SB1 and SB2 to the connected product configuration to avoid the risk of head wall damage.
   Note – To confirm dip-switch configuration, contact Stryker customer service or technical support (Contact information (page 5)).

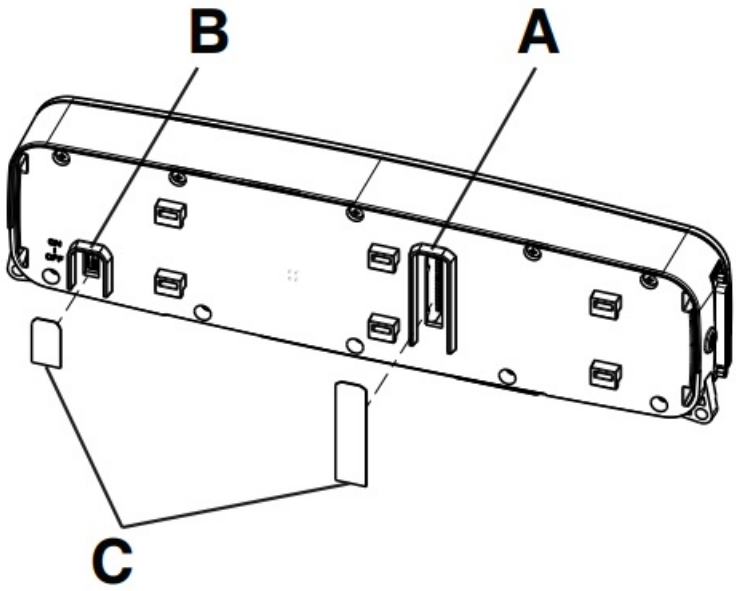


Figure 2 – Switch configuration

3. Using a straight pick, turn the Secure Connect ON/OFF switch (B) to the ON position (Figure 2).
4. Affix the two supplied IPX labels (C) over the dip-switch and the ON/OFF cutouts located on the back of the Secure Connect (Figure 2).
5. Using a tape measure and pencil, mark the intended center of the bed location (vertical line) (Figure 3).

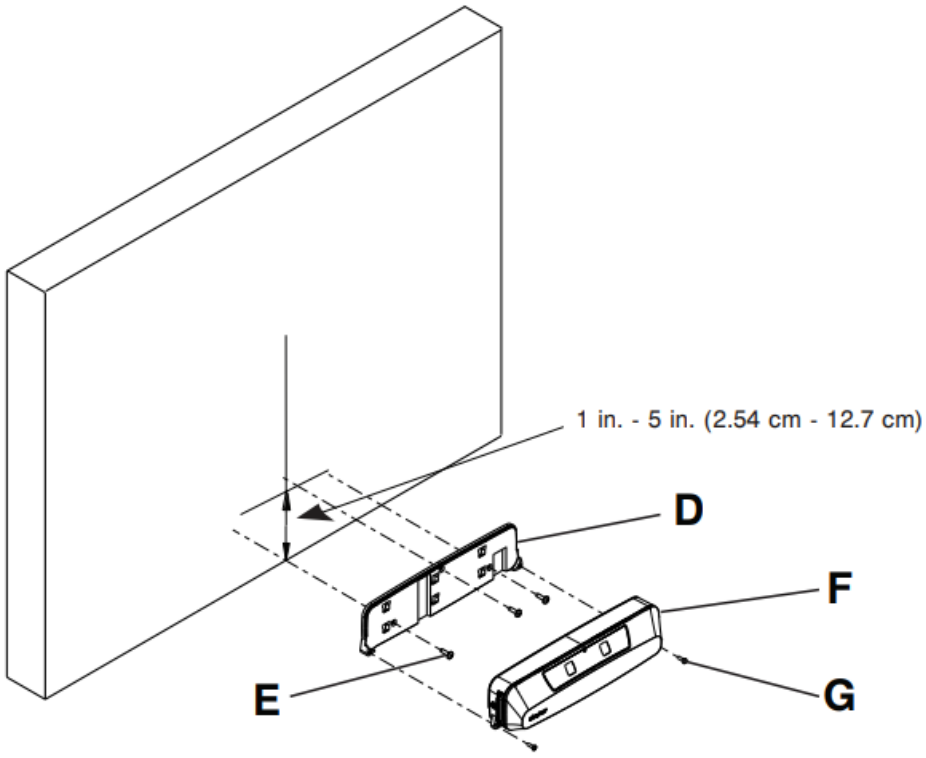


Figure 3 – Mounting specifications

6. Center the mounting plate on the vertical line made in step 5 and mount the bottom of the mounting plate max 1 in. (2.54 cm) off the floor (Figure 3).

   Note

   - Do not mount on a baseboard if the baseboard thickness exceeds 1 in. (2.54 cm).
   - You may mount the bottom of the mounting plate up to 5 in. from the floor if you can always maintain a distance of at least 5 in. between the head end of the bed and the wall. Consider use of a floor threshold

or roller bumpers.

7. Using a level on the bottom of the mounting plate (D), make sure that the bottom of the mounting plate (D) is level when you position the mounting plate (D) on the reference marks made in steps 5 and 6 (Figure 3).
8. Use a pencil to mark the three screw holes of the mounting plate (D).
9. Using the appropriate tool with the hospital supplied fasteners (E, not included), secure the mounting plate (D) to the wall (Figure 3).
10. Attach the Secure Connect (F) to the mounting plate (D) (Figure 3).
11. Using a #2 Phillips screwdriver, secure the Secure Connect (F) to the mounting plate (D) with the two supplied screws (700001126359) (G) (Figure 3).
12. Plug the Secure Connect power supply into a hospital grade protective earthed wall outlet.
    Note – Position the power supply in an accessible location.
13. On the Secure Connect, plug in the female end of the power supply.
14. On the Secure Connect, plug in the nurse call communication cable.
15. Using a #1 Phillips screwdriver, secure the nurse call communication cable to the Secure Connect.
16. Connect and secure the nurse call communication cable to the nurse call system wall plug.
17. See Configuring the Secure Connect (page 11).
18. Follow the procedure in the product manual to connect the product to the Secure Connect.

CAUTION – Always match the dip-switches of a product to the head wall configuration if a nurse call communication cable needs to be connected to avoid the risk of head wall damage.

Note

- If a Secure Connect is moved, repeat steps 1 and 10-17.
- If a product is moved to another configured Secure Connect, no change needs to be made as the product will connect automatically.

Installation checklist

Follow this checklist for the 521200380100 Secure Connect:

- Confirm that you do not have any unused components after installation. Your Secure Connect does not ship with any extra components
- Check that the Secure Connect ID number and room number/location has been recorded on the Secure Connect association form (page 22)
- Use a tape measure to check that the Secure Connect is installed at the horizontal center of the wall behind the bed location
- Use a tape measure to check that the bottom of the Secure Connect is installed 1 in. – 5 in. (2.54 cm – 12.7 cm) from the floor
- Use a level to confirm that the mounting plate is level
- All fasteners are tight with no signs of protruding or missing fasteners
- Power supply is plugged into a hospital grade protective earthed wall outlet and to the Secure Connect
- Nurse call communication cable is plugged into the Secure Connect and the nurse call system

Product ID number:			
Installed by:		Date:	
Inspected by:		Date:	

Note – Maintain a copy of this record for at least 10 years.

Operation

Secure Connect indicators/functions

The Secure Connect has indicator symbols and a nurse call cord out cancel button (A) that is located on top of the product. This button cancels the alert if the nurse call communication cable is unplugged.

Indicator	Indicator light	Status
	Solid	Connected
	Pulse	Connecting
	Flash	Connection error
	Pulse	AC power unplugged
	Flash	Low battery
	Pulse	Nurse call communication cable unplugged
	Solid	The **Secure Connect** is not configured
	Flash	Error (reference product display for error detail)
	Flash	Battery error

Configuring the Secure Connect

Tools required:

- Secure Connect scanner option (521200380700) or Secure Connect compatible product
- Stryker service tool option (521205080001)

Note – Stryker service tool required if you use the Secure Connect scanner.
CAUTION – Always match the dip-switches on SB1 and SB2 to the product configuration to avoid the risk of head

wall damage.

Procedure:
Using the Secure Connect scanner:

1. Using the Stryker service tool, select the supplied soft configuration and settings.
2. Select Save Configuration (A) (Figure 4).

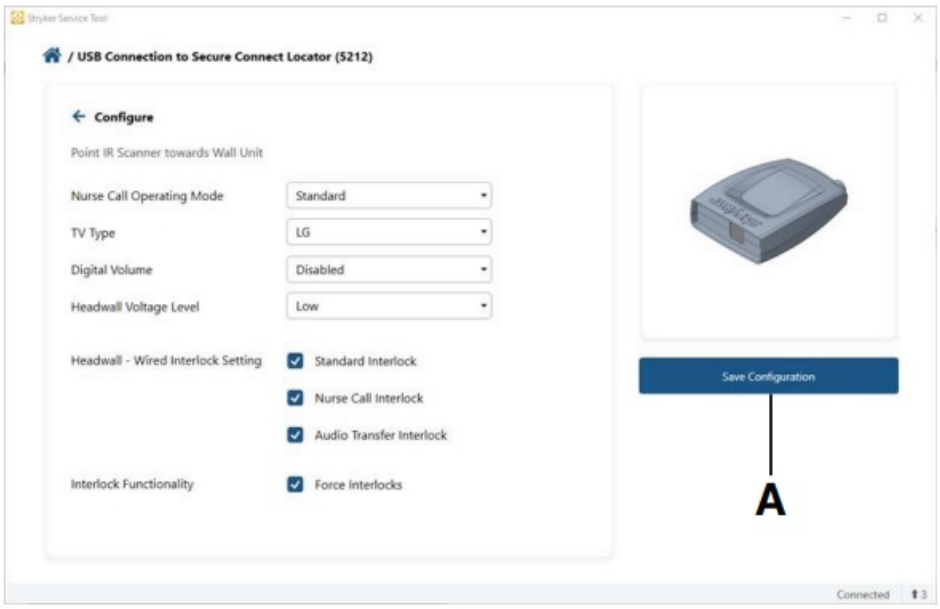


Figure 4 – Stryker service tool

Using a ProCuity® bed:

1. Apply the brakes.
   Note – See the Model 3009 ProCuity Operations Manual for steps to apply the brakes.
2. Confirm the Secure Connect connection to ProCuity.
   Note – The icon will appear on the ProCuity home screen when Secure Connect has connected.
3. Enter the service menu and select Configuration (B) (Figure 5).
   Note – See the Model 3009 ProCuity Maintenance Manual for steps to access the service menu.

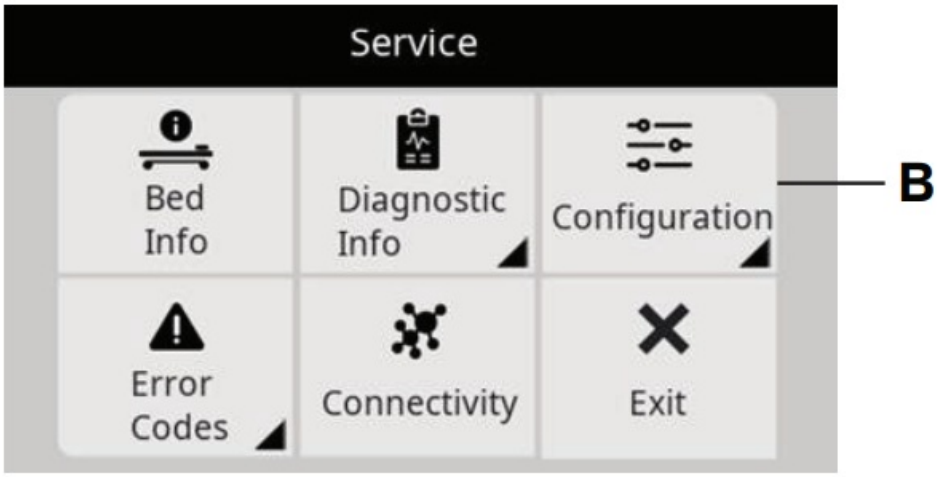


Figure 5 – ProCuity service menu

4. In the configuration menu, select Room Interface Configuration (C) (Figure 6).

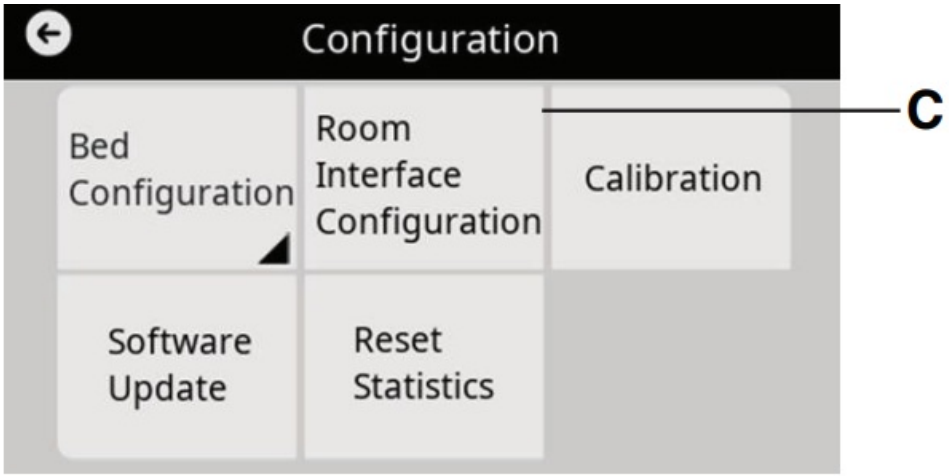


Figure 6 – ProCuity configuration menu

5. Input the supplied settings and select Save.

Testing the Secure Connect
Tools required:

- Secure Connect scanner option (521200380700) or Secure Connect compatible product
- Stryker service tool option (521205080001)

Note – Stryker service tool required if you use the Secure Connect scanner.

Procedure:
Secure Connect scanner:
Using the Stryker service tool test function, activate the nurse call.

ProCuity bed:
Using the footboard and siderail control panels, activate the nurse call.
Note – See the Model 3009 ProCuity Operations Manual for steps to activate nurse call.

Preventive maintenance
Remove product from service before you perform the preventive maintenance inspection. Check all items listed during annual preventive maintenance for all Stryker Medical products. You may need to perform preventive maintenance checks more often based on your level of product usage. Service only by qualified personnel.

Inspect the following items:

- All fasteners are secure
- The Secure Connect casing is not cracked or damaged
- Mounting plate not cracked or damaged
- The Secure Connect front label is not damaged
- Replace the battery (every two years)

Product serial number:
Completed by:
Date:

Cleaning

CAUTION

- Do not clean, disinfect, service, or perform maintenance while the product is in use.
- Always unplug the power cord from the wall outlet when large spills occur near the circuit boards and cables. Clean up the fluid, and inspect the product. Fluids can cause unpredictable operation and decreased functionality of any electrical product. Do not return the product to service until dry and tested for safe operation.

Recommended cleaning method:

1. Using spray or pre-soaked wipes, hand wash all exposed surfaces of the product with a mild detergent.
2. Follow the cleaning solution manufacturer's instructions for appropriate contact time and rinse requirements.
3. Dry the product before you return it to service.

Note – Avoid oversaturation. Do not allow the product to remain wet.

Disinfecting

CAUTION

- Do not clean, disinfect, service, or perform maintenance while the product is in use.
- Always unplug the power cord from the wall outlet when large spills occur near the circuit boards and cables. Clean up the fluid, and inspect the product. Fluids can cause unpredictable operation and decreased functionality of any electrical product. Do not return the product to service until dry and tested for safe operation.
- Always wipe down with clean water (or 70% isopropyl alcohol, if using VViirreexx® TB) and dry each product after disinfecting. Some disinfectants are corrosive in nature and may cause damage to the product. If you do not rinse and dry the product, you may leave a corrosive residue on the surface of the product. This corrosive residue could cause premature degradation of critical components. Failure to follow these disinfecting instructions may void your warranty.

Recommended disinfectants for this product's surfaces include:

- Quaternary (active ingredient – ammonium chloride)
- Phenolic (active ingredient – o-phenylphenol)
- Chlorinated bleach solution (10,000 ppm available chlorine, 941 mL of a 5.25% sodium hypochlorite solution per 4000 mL of water)
- Alcohol (active ingredient – 70% isopropyl alcohol)

- Accelerated hydrogen peroxide (5,000 ppm hydrogen peroxide)

Disinfection method

1. Follow the disinfectant solution manufacturer's dilution recommendations.
2. Using spray or pre-soaked wipes, apply the recommended disinfectant solution.
3. Hand wash all exposed surfaces of the product with the recommended disinfectant.
4. Dry the product before you return it to service.

Note

- Avoid oversaturation. Do not allow the product to remain wet.
- Follow the manufacturer's dilution recommendations for appropriate contact time and rinse requirements. Follow the chemical manufacturer's guidelines to disinfect.

Wireless notifications
For product equipped with wireless communication technology, these statements apply to the countries as indicated:

Country	Notification
Canada	Contains IC: 5123A-BGTWT32I This device complies with Innovation, Science and Economic Development Canada's license - exempt RSSs. Operation is subject to the following two conditions: (1) this device may not c ause interference, and (2) this device must accept any interference, including interference th at may cause undesired operation of the device.
Mexico	La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo de be aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada .
Oman	Oman – TRA D090024 TRA/TA-R/ 11190/21
Singapore	Complies with IMDA standards DA103640
South Africa	ICASA TA 2021-0324

Country	Notification
Thailand	
United States	**Contains FCC ID:** QOQWT32I This device complies with Part 15 of the FCC Rules. 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. Changes or modifications not expressly approved by the party responsible for compliance co uld void the user’s authority to operate the equipment.

EMC information

WARNING

- Portable RF communications equipment, including peripherals such as antenna cables and external antennas, should be no closer than 12 inches (30 cm) to any part of the Secure Connect locator, including cables specified by the manufacturer.
- Avoid stacking or placing equipment adjacent with other equipment to prevent improper operation of the product. If such use is necessary, carefully observe stacked or adjacent equipment to make sure that they operate properly.
- The use of accessories, transducers, and cables, other than those specified or provided by the manufacturer, could result in increased electromagnetic emissions or decreased electromagnetic immunity and result in improper operation.

The 521200380100 Secure Connect locator was evaluated using the following cables:

Cable	Length (m)
AC mains input cable	1.2
Nurse call (DB-37)	2.4

Guidance and manufacturer's declaration – electromagnetic emissions		
The 521200380100 **Secure Connect** locator is intended for use in the electromagnetic environment specified b elow. The customer or the user of the 521200380100 **Secure Connect** locator should assure that it is used in s uch an environment.		
Emissions test	**Compliance**	**Electromagnetic environment**
RF Emissions CISPR 11	Group 1	**Note –** The emissions characteristics of this equi pment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 clas s B is normally required) this equipment might not offer adequate protection to radio-frequency com munication services. The user might need to take mitigation measures, such as relocating or re- ori enting the equipment.
RF Emissions CISPR 11	Class A	
Harmonic Emissions IEC 61 000-3-2	Class A	
Voltage Fluctuations Flicker Emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity			
The 521200380100 **Secure Connect** locator is suitable for use in a professional healthcare facility environment and not in environments exceeding immunity test conditions that the product was evaluated to, such as near hig h frequency (HF) surgical equipment and inside of the radio frequency (RF) shielded room of magnetic resonance imaging (MRI) equipment. The customer or the user of the 521200380100 **Secure Connect** locator should assure that it is used in such an environment and that the electromagnetic environment guidance listed b elow is followed.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment-guidance**
Electrostatic Discharge (E SD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors should be wood, co ncrete, or ceramic tile. If fl oors are covered with synthetic material, the rel ative humidity should be a t least 30%.
Electrostatic fast transient / burst IEC 61000-4-4	±2 kV for power supply lin es ±1 kV for input/output line s	±2 kV for power supply lin es ±1 kV for input/output line s	Main power quality should be that of a typical commercial or hospital en vironment.

Guidance and manufacturer's declaration – electromagnetic immunity			
Surge IEC 61000-4-5	±0.5 kV, ±1 kV lines to lines ±0.5 kV, ±1 kV, ±2 kV lines to earth	±0.5 kV, ±1 kV lines to lines ±0.5 kV, ±1 kV, ±2 kV lines to earth	Main power quality should be that of a typical commercial or hospital environment.
Voltage dips, voltage variations and short interruptions on power supply input lines IEC 61000-4-11	0%U_T for 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0%U_T for 1 cycle 70%U_T (30% dip in U_T) for 25/30 cycles 0% U_T for 250/300 cycles	0%U_T for 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0%U_T for 1 cycle 70%U_T (30% dip in U_T) for 25/30 cycles 0% U_T for 250/300 cycles	Main power quality should be that of a typical commercial or hospital environment. If the user of the 521200380100 **Secure Connect** locator requires continued operation during power main interruptions, it is recommended that the device be powered from an uninterrupted power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Note – U_T is the a.c. mains voltage before applications of the test level.			

			Portable and mobile RF communications equipment should follow the guidance in the table titled "Recommended separation distances between portable and mobile RF communication equipment and the 521200380100 **Secure Connect** locator." If the mobile service is not listed in the table, the recommended separation distance should be calculated from the equation appropriate for the frequency of the transmitter.

Conducted RF IEC 61000 - 4-6 Radiated RF IEC 61000-4 -3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.7 GHz	3 Vrms 3 V/m	Recommended separation distance D=(2) (√P) where P is the maximum output power rating of the transmitter in watts (W) ac cording to the transmitter manufacturer and d is the recommended separation distance in meters (m).
			Field strengths from fixed RF transmitters, as deter mined by an electromagnetic site surve ya, should be less than th e compliance level in each frequency rangeb.
			Interference may occur in the vicinity of equipment marked with the following
			symbol: 

Note – These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption a nd reflection from structures, objects and people.

Note – The ISM (Industrial, Scientific, and Medical) bands between 0.15 MHz and 80 MHz are 6.765 MHz to 6.7 95 MHz;
13.553 MHz to 13.567 MHz; 26.957 MHz to 27.283 MHz; and 40.66 MHz to 40.70 MHz.

aField strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the 521200380100 **Secure Connect** locator is used exceeds the applicable RF compliance level above, the 521200380100 **Secure Conne ct** locator should be observed to verify normal operation. If abnormal performance is observed, additional meas ures may be necessary, such as reorienting or relocating the 521200380100 **Secure Connect** locator.

bOver the frequency range 150 kHz to 80 MHz, field strengths are less than 3 Vrms.

Recommended separation distances between portable and mobile RF communication equipment and the 521200380100 Secure Connect locator

The 521200380100 **Secure Connect** locator is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the 521200380100 **Secure Connect** locator can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the 521200380100 **Secure Connect** locator, including cables, as recommended below, according to the maximum output power of the communications equipment.

Band (MHz)	Service	Maximum power (W)	Minimum separation distance (m)
380-390	TETRA 400	1.8	0.3
430-470	GMRS 460; FRS 460	2.0	0.3
704-787	LTE Band 13, 17	0.2	0.3
800-960	GSM 800/900; TETRA 800; iDEN 820; CDMA 850; LTE Band 5	2.0	0.3
1,700-1,990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	2.0	0.3
2,400-2,570	Bluetooth; WLAN; 802.11 b/g/n; RFID 2450; LTE Band 7	2.0	0.3
5,100-5,800	WLAN 802.11 a/n	0.2	0.3

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note – These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

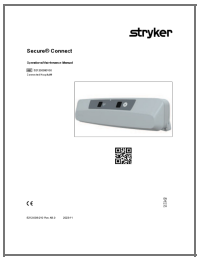
Secure Connect association form

Secure Connect BBID	**Room number/Location**

Note – Give this form to your Stryker representative or your IT system analyst so they can create the associations on the server.

Stryker Medical
3800 E. Centre Avenue
Portage, MI 49002
USA
5212-009-210 Rev AB.0
WCR: AB.2
2023-11

Documents / Resources

	stryker 5212-009-210AB Secure Connect [pdf] Instruction Manual 5212-009-210AB Secure Connect, Secure Connect, Connect

References

- Patents | Stryker
- Stryker Medical - Tech Web
- User Manual