Boston

version in a ikke anvendes Junid version Miny Do no program LATITUDE System

Version Hill Programming System

Nither Resident Program Progra ni)

1. 25 tariela verzina. Nemojte upotreblica de la company de la verzina. La stariela verzina. Jersione obsoleta. Non utili Zare. Move cojusi versija. Nei Zmantot. Their thoata. Notio akki. Pasenusi versija. Nenaudokite. Mersia przeterminowana. Nie liżywać. Elavilit verzió. Ne haszhálial. Jidatert versjon. Skalikke brukes.

Jersinne expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verlia. Nepolitivat. Lastarela razlicica. Ne liporabite Janhentunut versio. Ala kayta Fire Idrad Version Använd

SCNA. Take CENSTOUS Eg. version in a ikke anvendes. nijberholt. Nicht verwenden. Elstailela verzija. Nemojte upotrebljavati.
Lastarjela verzija. Lec. iv. demojte upotrebljavati. Outdated version. Do not use. Jersion Périmée. Ne pas utiliser. Version obsoleta. No utilizar. Jersione obsoleta. Non utilizzare. Idvill very verouder de versie. Niet gebruiken.
Dit is een verouder chair in in et gebruiken. Movecojusi versija. Neizmantot. Trelt tit data. Notio akki. Pasenusi versija. Nenaudokite. Elavult verzió. Ne haszhálial. Jidatert Versjon. Skalityke brukes. Jersinne expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verlia. Nepolitivat. Lastarela razlicica. Ne liporabite Janhentunut versio. Ala käytä

Vanhentunut versio.

Table of Contents

.....

INFORMATION FOR USE	.1
Trademark Statement	.1
Description and Use	.1
Intended Use	.1
Intended Audience	.1
Required Expertise and Knowledge	.1
Medical Product Operator's Ordinance	
Essential Performance	2
Contraindications	
Warnings	
Precautions	
Adverse Effects	.0
Auverse Lilecis	12
SYSTEM CAPABILITIES	
Hardware	
Interrogation and Programming	13
Patient Data Management	13
Networking	14
Software	14
Networking Software System Accessories	1412
Optional External Equipment	16
	16
External Printer	17
	17 L
	187
	N
CONNECTIONS	_
	19
	19
	20
	20
USING THE LATITUDE PROGRAMMING SYSTEM	20
Preparation for Use	20 × C
Battery Charge Level and Charging	20
Prepare a Telemetry Wand	21((0)
Cable Connections	21
Make Patient Side Connections	21
Make Dhysisian Cide Compatible	230
Electrosurgical Cables	24
Prepare for ZIP (RF) Telemetry	24
Startup	26
PSA Button	29
Startup	50.
13, 43, 45, 16, 30	
Electrosurgical Cables Prepare for ZIP (RF) Telemetry Startup PSA Button	
raw, Hos My	
1.9, 3/0, 10,	
Electrosurgical Cables Prepare for ZIP (RF) Telemetry Startup PSA Button	

Quick Start Button	
Patient Data Management Button	. 29
STAT Button for Transvenous PGs	. 29
Start a Transvenous PG Session	. 30
Quick Start (Button)	. 31
Quick Start (Button)	. 31
Surface ECG	31
ECG Display	. 32
ECG Display Intracardiac Electrogram Pacing System Analyzer (PSA)	. 33
Pacing System Analyzer (PSA)	. 33
Patient Data Management Utility	. 33
Parameter Changes, Data Entry, Demo Mode, and Utilities	
Changing Parameter Values	
Doma Mada	
Utilities Button	
Setup - Configure Settings	
Date and Time Tab	
Network Setup Tab	
About Button	
	· ·
Selecting a PG	
	. 41
	3 P
	.43
Real-time Log Events	. 43
	45 77
Cleaning the Programmer and Accessories	. 45
	46
	. 46
Sterilization	. 46
Battery Status, Installation, Replacement, and Recycling	. 48
Battery Replacement	. 49
	. 51
Operation and Storage	.511000000
Storing the LATITUDE Programming System	53
Maintenance Check and Safety Measures	. 53
LATITUDE Programming System Maintenance Check	. 53
Safety Measurements	. 54
Service	. 54
Safety Measurements Service TROUBLESHOOTING HANDLING	955 NO. 1
HANDLING 181 : UII 28 - THE REPORT OF THE PARTY OF THE PA	59
Safety Measurements Service TROUBLESHOOTING HANDLING	
The star who sie	SU.
LATITUDE Programming System Maintenance Check Safety Measurements Service TROUBLESHOOTING HANDLING	30
125, 261, 94	
Now How I've	
13, 30, 01,	
(S)	

Using an External ECG Monitor with the Model 3300	5 0
Programmer Environmental Protection and Disposal	59 61
Symbols on Devices and Packaging	
SAFETY, COMPLIANCE, AND COMPATIBILITY STANDARDS	
2 1 1 1 2 2 2 2	0.4
Flectromagnetic Compatibility Standards	0 4 65
Radio Spectrum Compliance Standards	65
Electromagnetic Emissions and Immunity	65
IEC 60601–1–2:2014 Information	65
Industry Canada (IC)	66
Safety Standards Electromagnetic Compatibility Standards Radio Spectrum Compliance Standards Electromagnetic Emissions and Immunity IEC 60601–1–2:2014 Information Industry Canada (IC) LATITUDE PROGRAMMING SYSTEM SECURITY Software Patient Data Management	68
Software	68
Patient Data Management	68
Network Network	69
Unsupported Hardware	69
Security Vigilance	69
Physical Controls	69
Compromised Programmer	09
SPECIFICATIONS	70
WARRANTY INFORMATION	74
9/1 43, 00 illy 113. 2 6/2 00 31, x6.	60,
The Plus Service of The Hill	5
0, 3/210 Ub 3/6 40 43. 461, 190, 31 Miles	
16 1210 1610 415. Up. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	S. Na
16, 431, 400, 1020 dell 761, The della line	'Kr.
135 14 1/6 60 1/6 1/35 1/6 1/6 1/6	, Or
116, 04, 12, 12, 16, 96 HAG HI	
0, 2/2/2 (0), 16, 7: 19 46, 13/1, 13.	213.
16, 18, 17, 010, 2kg, My, "III	i illii
40, 640, 16, 16,0 W. 100, 1/5,	e i
, 592, 11/4 old stell the rigo of	, Ma Ville
13/2 66. 16. 16. 17.	Mr. Mar
Kin is " 610 " 160 (610 " 3.1) 60	100.31
LATITUDE PROGRAMMING SYSTEM SECURITY Software Patient Data Management Network Unsupported Hardware Security Vigilance Physical Controls Compromised Programmer SPECIFICATIONS WARRANTY INFORMATION	e ika kayi
1,50,510,00, 46,113.	1 Ma 29

Jersinne expirata. Anuse utiliza.

Lastarana verlia. Nepolitivat.

Lastarela razlicica. Ne liporabite Janhentunut versio. Ala kayte

Jidatert versjon. Skalikke brukes.

Versão obsoleta. Não utilize.

SCNA. Take CENSTOUS Eg. version in a ikke anvendes. nijberholt. Nicht verwenden. Elstailela verzija. Nemojte upotrebljavati.
Lastarjela verzija. Lec. iv. demojte upotrebljavati. Outdated version. Do not use. Jersion Périmée. Ne pas utiliser. Version obsoleta. No utilizar. Jersione obsoleta. Non utilizzare. Idvill very verouder de versie. Niet gebruiken.
Dit is een verouder chair in in et gebruiken. Movecojusi versija. Neizmantot. Trelt tit data. Notio akki. Pasenusi versija. Nenaudokite. Elavult verzió. Ne haszhálial. Jidatert Versjon. Skalityke brukes. Jersinne expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verlia. Nepolitivat. Lastarela razlicica. Ne liporabite Janhentunut versio. Ala käytä

Vanhentunut versio.

INFORMATION FOR USE

Trademark Statement

The following are trademarks of Boston Scientific Corporation or its affiliates: AF Monitor, EMBLEM, ImageReady, LATITUDE, LATITUDE NXT, Quick Start, ZIP, and ZOOM.

Bluetooth® is a registered trademark of Bluetooth SIG.

DisplayPort is a trademark of the Video Electronics Standards Association (VESA).

Description and Use

Four separate Operator's Manuals describe the LATITUDE Programming System:

- LATITUDE™ Programming System Operator's Manual (Model 3300)
- Pacing System Analyzer (PSA) Operator's Manual (Model 3922)
- Patient Data Management Operator's Manual (Model 3931)
- Network and Connectivity Operator's Manual (Model 3924)

These manuals are also available online at: www.bostonscientific-elabeling.com.

The Model 3300 Programmer is the programming device of the LATITUDE Programming System, which is a portable cardiac rhythm management system designed to be used with specific Boston Scientific systems, i.e., implantable pulse generators (PGs) and leads.

Intended Use

The LATITUDE Programming System is intended for use in hospital and clinical environments to communicate with Boston Scientific implantable systems. The software in use controls all communication functions for the PG. For detailed software application instructions, refer to the associated product literature for the PG being interrogated.

Intended Audience

This literature is intended for use by health care professionals trained or experienced in device implant and/or follow-up procedures.

Required Expertise and Knowledge

qualified medical specialists having the special knowledge required for the proper use of the device are permitted to use it

The LATITUDE Programming System may only be operated under the constant supervision of a physician. During a procedure, the patient must be al almavan siriim. rival yersion.

continuously monitored by medical personnel with the aid of a surface ECG monitor.

Medical Product Operator's Ordinance

National regulations may require that the user, manufacturer or manufacturer representative perform and document safety checks of the device during installation. They may also require that the manufacturer or its representative provide training to users on the proper use of the device and its accessories.

If you do not know the national regulations in your country, please contact your local Boston Scientific representative.

Essential Performance

In order for the LATITUDE Programming System to meet its intended use, it must communicate with Boston Scientific implantable PGs. Therefore those functions that pertain to communications with the implanted PGs using telemetry wands are considered essential performance.

LATITUDE Programming System performance determined to be essential by Boston Scientific for electromagnetic compatibility testing, as per IEC 60601-1-2, has the ability to:

- Interrogate and program a supported PG using wanded telemetry
- Initiate a PG STAT PACE, PSA STAT PACE, STAT SHOCK, or DIVERT THERAPY command to a PG where supported
- Display real-time intracardiac electrograms
- Support touchscreen tap and button press interactions
- Deliver pacing and assess pace sense lead measurements with the Pacing System Analyzer (PSA) function

NOTE: No recurring calibration of the LATITUDE Programming System or its applications is required or needed.

Contraindications

The LATITUDE Programming System is contraindicated for use with any PG other than a Boston Scientific PG. For contraindications for use related to the PG, refer to the associated product literature for the PG being interrogated.

The PSA application is contraindicated for use with any programming system other than the Boston Scientific LATITUDE Programming System, Model 3300

The following uses of the PSA are contraindicated:

- With AV conduction disorders; atrial single-chamber pacing
- With competing intrinsic rhythms; asynchronous modes
- Vanhentunut versio. Ala käytä r. i. aldrad version. Anvand With chronic atrial tachycardia as well as chronic atrial fibrillation or flutter modes with atrial control (DDD, VDD)

- With poor tolerance of high ventricular rates (e.g., with angina pectoris); tracking modes (i.e., atrial control modes) and propensity for atrial tachycardia
- Use as an external pacemaker1

WARNINGS

Use of unspecified cables and accessories.



The use of any cables or accessories with the LATITUDE Programming System other than those provided by or specified by Boston Scientific could result in increased electromagnetic emissions, decreased electromagnetic immunity, or electrical shock of the LATITUDE Programming System. Anyone connecting such cables or accessories to the LATITUDE Programming System, including the use of MSOs (Multiple Socket Outlets), may be configuring a medical system and is responsible to ensure that the system complies with the requirements of IEC/EN Radio frequency (RF) communications equipment.

Keen all PE



Keep all RF communications equipment (including peripherals such as antennas, wands, and cables) at least 30 cm (12 in) away from the Model 3300 Programmer, including cables specified by Boston Scientific, to avoid degradation of the performance of this equipment.

Connector contacts.



Do not simultaneously touch the patient and any accessible LATITUDE Programming System connector or exposed conductor.



Electric shock To avoid the risk of electric shock, only connect the Programmer's Model 6689 Power Adapter with the appropriate power cord to a ground size earthed power outlet.

Battery access.



During implantation, the PSA application is suitable for temporary external pacing while the patient is being continuously monitored by medical personnel. When accessing the battery, ensure that power to the Programmer is Jerlia. Nepoužívat

1.



The PSA lead system is in electrical contact with the patient's heart and blood.

- Do not touch the metal clips on the patient cable or the pacing lead. Electrical currents can be dangerous to the patient and the user.
- Discharge any electrical static charge on your person by touching a grounded metal surface before touching the patient, the patient cables, or the device.

Electrical currents.



Unused PSA cable connections contacting conductive surfaces can induce electrical currents into the patient's heart.

Attach unused cable connections to surgical draping near the patient or disconnect the unused cables from the system.

Electrocautery.



The LATITUDE Programming System is designed and tested to be electrocautery safe.

- While the device is designed and tested to be electrocautery safe. electrocautery can induce electrical currents in the PSA cables that can be conducted into the patient's heart. However, Boston Scientific recommends that the Programmer be placed as far from the electrocautery system and associated components as possible to minimize noise being introduced into the LATITUDE Programming System and patient cables.
- Never stack the Programmer on top of an electrocautery system or associated components.
- Do not drape electrocautery components or cables on or near the Programmer or associated cables and components.
- Whenever possible disconnect the PSA cables from the pacing leads when performing an electrocautery procedure.
- If the Programmer is connected to the patient during an electrocautery procedure, check its operation afterwards.
- If the Programmer experiences an issue that causes an error condition, the Programmer will need to be power cycled. During the reset and reboot, which takes up to one minute, there will be no pacing support. For this reason, a backup PSA/pace resource must be available in case electrocautery is applied.

LATITUDE Programming System location.



Use of the Model 3300 Programmer adjacent to or stacked with other rise Aldrad Version. Använd equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

LATITUDE Programming System must remain outside sterile field.



The Programmer is non-sterile and cannot be sterilized. Do not allow the device to enter a sterile zone in an implant environment.

Physiological signals.



Operation of the LATITUDE Programming System with physiological signals that are lower than the minimum detectable amplitude may cause inaccurate results.

LATITUDE Programming System is MR unsafe.



The LATITUDE Programming System is MR Unsafe and must remain outside the MRI site Zone III (and higher) as defined by the American College of Radiology Guidance Document for Safe MR Practices2. Under no circumstances should the LATITUDE Programming System be brought into the MRI scanner room, the control room, or the MRI site Zone III or IV areas.

Induction.



When activating PSA Burst Pacing, which may cause unpredictable arrhythmias, always have cardiac emergency equipment (e.g., external pacemaker, external defibrillator) in an operational status available for immediate life support.

Consider additional preemptive measures in patients where acceleration or a loss of rhythm could cause life-threatening danger

External defibrillation



The LATITUDE Programming System is designed and tested to be defibrillation safe.

- While the Programmer is designed and tested to be defibrillation safe, the patient can be endangered and the Programmer can be damaged.
- The PSA cable **must** be disconnected from the lead(s) before using external defibrillation.
- Whenever possible, disconnect all cables from the patient when using external defibrillation equipment.
- If the LATITUDE Programming System is connected to the patient during defibrillation, verify that the Programmer is operating as expected after defibrillation

External pacing equipment.



If the patient is pacer dependent and the Programmer encounters a fault rising larged version. Använd condition, pacing operation continues unless the fault was in the PSA component itself. For this reason, always have external pacing equipment available for nations back up available for patient back-up

Kanal E, et al., American Journal of Roentgenology 188:1 2.

Loss of power.



Operating the Programmer with a depleted internal battery or no battery can suspend Programmer function if AC power is temporarily interrupted.

- If an optional battery is used, do not use a depleted or unapproved battery. For additional patient safety, when the battery level indicator shows 25% or less remaining, connect the AC power to the Programmer.
- When operating on battery power, do not attempt to replace the battery.
- A yellow attention message displays on the Programmer screen when the battery reaches 25% depletion. When the battery reaches 10% depletion or less, a red warning message displays. At 5%, there is another red warning message followed by a 60-second automatic shutdown.

Loss of pacing support.



Always have external cardiac pacing equipment in an operational status available for immediate life support.

- Initially, when the Programmer is switched on, the pacing functions are switched off while a self-test is conducted. No pacing is possible during the self-test, which can take up to one minute.
- Connecting the PSA cable to the wrong lead may result in ineffective sensing and pacing behavior and loss of pacing support.
- If the user manually restarts the Programmer, pacing support is lost until the system completes its self-test, which can take up to one minute and the user must restart PSA manually if desired.
- If there is no battery installed, pacing support will be lost if AC power is lost.

Backup defibrillation protection.



Always have external defibrillation equipment and medical personnel skilled in CPR available during implant and follow up testing. If not terminated in a timely fashion, an induced ventricular tachyarrhythmia can result in the patient's death.

Impaired AV conduction.



Single chamber atrial modes are contraindicated for patients with impaired AV conduction.

Zastarela razlicica. Ne uporabite Vanhentunut versio. Ala käytä If the patient has impaired AV conduction, AAI programming and antegrade conduction tests must not be performed. Fize Aldrad Version Använd Zastarana verzia.

Abruptly terminating pacing.





Abruptly terminating pacing may result in extended periods of asystole in some patients.

Gradually decrease the pacing rate until the patient's intrinsic rate is detected for a controlled transition from pace to intrinsic rhythm.

Loss of capture.



Pacing threshold testing implies loss of capture. At loss of capture, asystole and pacing during vulnerable periods can occur.

Consider the health of the patient prior to performing a pacing threshold test.

Use of protective sleeves.



Incorrect positioning of the protective silicone rubber sleeves over the PSA cable clip(s) can cause unintended electrical connections that can impair cable function and endanger the patient.

Before connecting cables, ensure correct position of protective sleeves.

ud versioo' Do not use wet cables.



Moisture on wet cables can impair cable function and endanger the patient.

Exposure to fluids.



Before cleaning and disinfecting the Programmer surfaces, power down the device and disconnect the external power supply. Before operating the LATITUDE Programming System, let cleaning and disinfection agents used on the Programmer evaporate

Emissions and interference.



The emissions characteristics of this equipment 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 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or reorienting the equipment. Other equipment may interfere with the LATITUDE Programming System, ever if that equipment complies with the CISPR emission requirements.

Lithium-ion battery.



rivaldrad version. Använd The Model 6753 Battery is a Lithium-ion battery and, as such, is deemed a Dangerous Good in regards to shipping. Do not return the Model 6753 battery to Boston Scientific. Dispose of the battery as required by local regulations. If the battery must be shipped, contact your local shipper for Vanhentunutvere instructions and shipping requirements.

Power up.



Do not touch the screen while the Programmer is powering up, as this may cause the area that you touched to become unresponsive when pressed later on.

PRECAUTIONS

General

- Functional impairment due to external damage. Mechanical impact, for example dropping the Programmer unpackaged, can permanently impair the function of the system. Do not use the Programmer if there is apparent damage. If damage has occurred, contact Boston Scientific to return the Programmer using the information on the back cover of this manual.
- Programming System. Use only the appropriate LATITUDE Programming System equipped with the appropriate software to program specific Boston Scientific PGs.
- Model 6395 Telemetry Wand use. For inductive PG telemetry, use only the Model 6395 Telemetry Wand with the LATITUDE Programming System.
- Wand temperature (Model 6395 only). Telemetry procedures exceeding 8 hours may require a thermal insulator between the Model 6395 Telemetry Wand head and the patient's skin as the wand head temperature can range from 33 - 41 °C (88 - 106 °F).
- Model 6395 Telemetry Wand shipped non-sterile. The Model 6395 Telemetry Wand is shipped non-sterile. Remove the wand from all packaging material before sterilizing it. If the wand is to be used in a sterile field, it must be actively sterilized before use or enclosed in a disposable sterile surgical sheath (Model 3320) during use. Refer to "Cleaning the Programmer and Accessories" on page 45 for sterilization and cleaning information.
- Model 3203 S-ICD Telemetry Wand shipped non-sterile. The Model 3203 S-ICD Telemetry Wand is shipped non-sterile. Remove the wand from all packaging material before use. If the wand is to be used in a sterile field, it must be enclosed in a sterile intraoperative probe cover (Model 3320) during use. Refer to "Cleaning the Programmer and Accessories" on page 45 for cleaning information.
- Stylus use. If you want to use a stylus, ensure that it is a projected capacitance stylus. The use of any other object could damage the touchscreen.
- Electrocautery cables. Keep all electrocautery cables at least 30 cm (12 in) away from the LATITUDE Programming System to avoid false signals due to electrocautery energy.
- al almavan sürüm. Leakage current. Although optional external equipment connected to the Model 3300 Programmer must meet the applicable leakage-current requirements for commercial products, it may not meet the more stringent r. in all had yersil

leakage requirements for medical products. Consequently, all external equipment must be kept outside the patient environment.

- Never touch the electrical contacts on the side panels of the Model 3300 Programmer and the patient, a telemetry wand, or any cable at the same time.
- **PSA connections.** Ensure leads are connected appropriately for desired use; incorrect setup can result in pacing/sensing events, which display under a different chamber on the screen. The PSA application user interface associates specific lead connections with the RA, RV, and LV chambers on screen to support testing all three chambers with minimal change of physical connections. Saved PSA measurements are also labeled automatically based upon the chamber in use on the screen. These labels can later be adjusted by the user if the decision is made to use one physical connection to test other chambers (for example, using only the RV connection to test RA, RV, and LV leads).
- **PSA connector clips.** Do not clip any PSA connector directly to the skin, pocket, or other tissue of the patient.
- Ventricular Sensing. During a PSA session, ventricular sensing behavior is driven by the most recently selected ventricular pacing configuration: RV-only, LV-only, or Bi-V.
 - At system startup, the PSA mode is set to ODO (non-pacing) and the effective ventricular pacing configuration is Bi-V.
 - When a non-pacing mode (ODO or OVO) is selected from the mode palette, sensing is set to Bi-V to ensure sensing is enabled on both leads regardless of any prior configuration.
- Cross-chamber over-sensing. A unipolar configuration may lead to cross-chamber artifact over-sensing that affects pacing behavior.
 - In a unipolar configuration, it is common to see cross-chamber artifacts on electrograms (EGMs). If you move the A+ connector clip back to the atrial lead anode while the Can electrode button and "Use the A+ connection" button are still selected, the PSA remains programmed to a unipolar configuration. In this case, you may see pronounced crosschamber artifacts on the EGMs which may lead to over-sensing that affects pacing behavior.
- ECG cable open/short. Loss of the ECG signal in case of an ECG cable open/short can affect diagnosis and screening by prolonging the procedure or preventing the procedure from completing.
 - Check cables first and replace if cracked or worn.
 - If cable is not functioning properly, replace it.
- Model 6689 Power Adapter. The power adapter normally gets warm Ethernet. If desired for use, connect the Ethernet cable only to the RJ45
 Ethernet port connector on the Model 3300 Programmer. Insertion or when it is in use or charging. Do not place the power adapter in the storage
- al almavan sürüm. .on of

removal of the Ethernet cable during operation may affect networking functions. The RJ45 Ethernet connection on the Model 3300 Programmer is for Local Area Networking (LAN) use only. It is not to be used for a telephone connection.

- **Inductive telemetry.** Using the Programmer on battery power only may reduce the telemetry distance (from wand to implanted device). If needed, use AC power to improve inductive telemetry.
- Battery operation during long-term storage. Remove battery to prevent discharging when storing the Programmer for long periods (e.g., months).
- Date and time accuracy. Inability to access a remote time server could lead to discrepancies in the Programmer time. As a backup, contact your Boston Scientific representative to have the time and date set manually.
- Patient data. Patient data may be stored on the Programmer up to 14 days and appropriate precautions should be taken to secure the programmer from unauthorized access.
 - Delete all patient data from the Programmer (refer to the Patient Data Management Operator's Manual (Model 3931) for delete instructions) before shipping the Programmer or at any time when the Programmer leaves your direct control.
 - Only connect to known Bluetooth® devices to reduce the potential of transmitting patient data to inappropriate printers or devices.
- **USB devices.** USB devices connected to the Programmer should be controlled to limit the potential introduction of malware.
- External device battery usage. Using external devices (USB, display) monitor) will deplete the battery. To extend Programmer performance, refrain from using external devices when on battery power only and the
- Software. Ensure that you have the latest software versions installed (see "Software Update Tab" on page 37). As a backup have to Scientific representative can provide software updates using a USB pen drive.
- Electrical and magnetic interference. Avoid establishing telemetry communication between the Programmer and the PG when the Programmer is in close proximity to monitors, high-frequency electrocautery equipment, or strong magnetic fields. The telemetry link may be impaired.
- External antenna usage for RF telemetry with transvenous PGs. The Model 3203 S-ICD Telemetry Wand may be used as an additional antenna to improve the Programmer's RF telemetry performance with transvenous pulse generators. If the wand is placed in a sterile field, it must be during use.

 John Helemetry wand is not used for RF telemetry wand is not al almavan sürüm. ous Prival Version.

- **Equipment modifications.** No modification of this equipment is allowed unless approved by Boston Scientific. Changes or modifications not expressly approved by Boston Scientific could void the user's authority to operate the equipment.
- Wi-Fi. Wi-Fi connectivity is not permitted in Indonesia due to specific configuration requirements.

Maintenance and Handling

- Cleaning the Programmer. Do not use an abrasive cloth or volatile solvents to clean any portion of the device. See "Cleaning the Programmer and Accessories" on page 45 for recommended cleaning.
- Magnet handling. Do not place a magnet on the Programmer.
- Presence of flammables. The LATITUDE Programming System is not waterproof or explosion-proof and cannot be sterilized. Do not use it in the presence of flammable gas mixtures including anesthetics, oxygen, or nitrous oxide.
- Disconnecting the Programmer. To completely disconnect the Programmer from the power source, first press and release the power button \circlearrowleft to turn the system off. Then disconnect the power cord from the side of the Programmer.
 - Programmer accessibility. Ensure that the sides of the Programmer are accessible at all times so that the power adapter cord can be disconnected.
- Lithium-ion battery. The Model 6753 Lithium-ion battery contains highly flammable chemicals and should be handled with caution. Abuse of this battery can result in fire or explosion. Read the following prior to using this battery:
 - Do not expose the battery to temperatures above 140°F (60°C)
 - Do not puncture the battery as it can lead to a fire or explosion. If the battery housing is punctured, or otherwise visibly damaged, do not attempt to use it.
 - Do not strike the battery or otherwise subject it to strong impacts.
 - Do not submerge the battery in any fluids.
 - Do not connect the + and terminals with wire or any conductive objects.
 - Do not disassemble, modify, or repair the battery
 - Only use the Model 3300 Programmer to charge the battery. Use of r. i. aldrad version. Använd any other battery charger can permanently damage the battery or even cause a fire or explosion.
- System Power up. Boston Scientific recommends attaching all necessary System Power up. Boston Scientific recommends attaching all necess cables and devices before turning on the Model 3300 Programmer.

Radio Frequency (RF) Performance

To reduce emissions and improve RF performance, adhere to the following quidelines:

- Avoid establishing telemetry communication between the Programmer and the PG when the device is in close proximity to monitors, high-frequency electrosurgical equipment, or strong magnetic fields. The telemetry link (RF or inductive) may be impaired.
- Do not loop any cables around or over the Programmer.
- Cables on the physician side panel and patient side panel should be kept on their respective sides to minimize coupling.
- Route cables directly away from the Programmer when possible.
- When using the DisplayPort output to external video or a digital monitor:
 - Keep the external video or digital monitor and its cable routed away from the Programmer to avoid electrical interference.
 - Use high-quality shielded cables with integral conversions (e.g., DisplayPort to HDMI) when possible.
 - Minimize the use of active adapters other than those identified by Boston Scientific as they can create emissions that can interfere with PG telemetry.

Adverse Effects

The following list includes the possible adverse effects associated with programming pulse generators described in this manual

- Asvstole
- Atrial arrhythmia
- Bradvcardia
- Tachvcardia
- Ventricular arrhythmia

SYSTEM CAPABILITIES

The LATITUDE Programming System communicates with PGs and provides the following capabilities in hardware, interrogation/programming, patient data management, networking, and software:

Nie Litywać.

Hardware

- Connections allow for a patient ECG cable and PSA cable to be input and displayed on the Programmer (certain applications only)

 DisplayPort for an optional external display ria Aldrad Version. Anvand Vanhentunut versit

USB ports (4) available for patient data export to a standard USB 2.0 or 3.0 pen drive, connection to an external printer, or used for software installation by Boston Scientific personnel

NOTE: The USB ports are forward and backward compatible. USB 2.0 devices work in USB 3.0 ports and USB 3.0 devices work in USB 2.0 ports. The lowest version of USB determines the speed. For example, a USB 3.0 device plugged into a USB 2.0 port runs at 2.0 speed, and a USB 2.0 device plugged into a USB 3.0 port runs at 2.0 speed.

Interrogation and Programming

- Interrogates and programs the implantable PG
- Displays records, stores patient data, and allows the physician to evaluate alternative prescription modes, generate reports, and record episodes
- Performs tests in an electrophysiology laboratory, in an operating room, in an emergency room, in clinical environments, or at a patient's bedside
- May be used to support diagnostic activities pertaining to implanting, programming, and monitoring Boston Scientific implantable PGs
- Provides a Pacing System Analyzer (PSA) application⁴ to assess electrical performance and placement of cardiac lead systems during implant of cardiac rhythm management devices
- Provides real-time electronic capture of various events from the PG and the PSA application
- Outputs surface ECG and telemetered signals (intracardiac electrograms and event markers) in PDF format
- Provides emergency access to STAT SHOCK, PG STAT PACE, PSA STAT PACE, and DIVERT THERAPY functionality applicable to the PG and PSA application
- Provides ZIP telemetry, a cordless, hands-free RF communication option that allows the Programmer to communicate with the PG

Patient Data Management

The LATITUDE Programming System provides the ability to print, save, or transfer related data (via Bluetooth® or USB pen drive), during or after an implant/follow-up session, to a clinic computer for processing/transferring data to external systems (e.g., EMR systems).

Refer to the Patient Data Management Operator's Manual (Model 3931) for additional information.

^{3.}

The LATITUDE Programming System is not intended for use as an ECG monitor or general diagnostic device.

Refer to the Pacing System Analyzer (PSA) Operator's Manual (Model 3023) for the use information. Graginostic device.

Refer to the Pacing System Analyzer (PSA) Operator's Manual (Model 3922) for PSA setup and use information. ringly ladyersh 4. al almayar

Networking

The LATITUDE Programming System provides Ethernet and wireless (Wi-Fi) connectivity for data transmission. 5 Bluetooth® connectivity is available for data transfer (e.g., to a laptop) and printing.

Refer to the Network and Connectivity Operator's Manual (Model 3924) for additional networking and connectivity setup and use information.

Software

Software updates and downloads are provided via Internet or USB pen drive. If a software update or download does not complete successfully, you can reinitiate the update or download.

The Utilities tab on the Programmer screen includes a Software Update selection. The user may choose from downloading and installing all updates or reviewing and selecting updates from those available. See "Software Update Tab" on page 37.

SYSTEM ACCESSORIES

The following accessories have been tested and can be used with the Model 3300 Programmer:

- Model 6395 Telemetry Wand⁶ (re-sterilizable)
- Model 3203 S-ICD Telemetry Wand7
- Model 3320 Intraoperative Probe Cover, which is to be used with the Model 6395 Telemetry Wand or the Model 3203 S-ICD Telemetry Wand if the S-ICD wand is located within the sterile field
- Model 6697 (Remington Model S-101-97) PSA Disposable Cable, singleuse only
- Model 6763 PSA Cable, re-sterilizable and re-usable; the cable clip protective covers contain Elastosil R401 (silicone rubber)
- Model 6133 (Remington Model ADAP-2R) Safety Adapter
- Model 3154 Fixed Patient Leads ECG Cable; For Canada and China only, use the Model 3153 Fixed Patient Leads ECG Cable8
- Model 6629 ECG-BNC Slave Cable
- Model 6689 Power Adapter (supply)
- Model 6753 Lithium-ion Battery, rechargeable and replaceable

The following AC power cords are also available for use with the PRM:

- 5.
- 7.
- 8.

AC Power Cord M	odel	Outlet
Model 6175 and M Power Cord (Type Mexico, Japan)		
Model 6285 AC Po (e.g. Europe)	ower Cord (Type F	
Model 6282 AC Po e.g. Switzerland)	ower Cord (Type);	(0 0 0 0 10 M 2502)
Model 6343 AC Po G; e.g. United King		Javaři
Model 6289 AC Po N; e.g. Brazil)	ower Cord (Type	
Model 6284 and M Power Cord (Type China)		Millarioi.
Model 6283 AC Po M; e.g. South Afric	ower Cord (Type	Collis Elistos

To order accessories, contact Boston Scientific using the information on the back cover of this manual.

WARNING:



The use of any cables or accessories with the LATITUDE Programming System other than those provided by or specified by Boston Scientific could result in increased electromagnetic emissions, decreased electromagnetic immunity, or electrical shock of the LATITUDE Programming System. Anyone Vanhentunut versio. Ala käytä connecting such cables or accessories to the LATITUDE Programming System, including the use of MSOs (Multiple Socket Outlets), may be configuring a medical system and is responsible to ensure that the system rise aldrad version. Anvand complies with the requirements of IEC/EN 60601-1, Clause 16 for medical electrical systems.

Optional External Equipment

Optional external equipment can be used with the LATITUDE Programming System, Contact your Boston Scientific sales representative to determine what external equipment can be used.

NOTE: If adding external equipment, you are configuring a medical system and are responsible to ensure that the system complies with the requirements of IEC/EN 60601-1, Clause 16 for medical electrical systems.

WARNING:



Do not simultaneously touch the patient and any accessible LATITUDE Programming System connector or exposed conductor.

CAUTION: Although optional external equipment connected to the Model 3300 Programmer must meet the applicable leakage-current requirements for commercial products, it may not meet the more stringent leakage requirements for medical products. Consequently, all external equipment must be kept outside the patient environment.

Never touch the electrical contacts on the side panels of the Model 3300 Programmer and the patient, a telemetry wand, or any cable at the same time.

Stand

A stand (Model 6755) is available for the LATITUDE Programming System. It easily attaches to the bottom of the Programmer with a clip. It provides two convenient viewing angles and has a storage pocket in the back for storing cables and wands.

When the stand is used in the flat position, do not use downward force on the handle as the unit may tip.

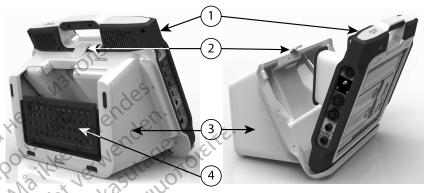
To attach the stand, slip the stand under the Programmer and tilt the stand up and for and for the verous deride verous der Elavult verzió. Ne ha Utdatert versjon. Skalikke Wersia przeterminowana. Nie to engage the clip as illustrated in Figure 1 Optional Stand for the LATITUDE Pasenisiversija Programming System on page 17. Versinne expiration. Anuse utiliza.

Versão obsoleta. Não Utilize.

Zastarana verlia. Nepouthvat.

Lastarela razlicica. Ne liporabite

Vanhentunut versio. Ala kayte rise Aldrad Version. Använd



[1] Model 3300 Programmer [2] Stand Clip [3] Model 6755 Stand [4] storage pocket

Figure 1. Optional Stand for the LATITUDE Programming System

The power adapter normally gets warm when it is in use or CAUTION: charging. Do not place the power adapter in the storage pocket of the stand while it is in use or charging as the confined space will not allow the heat to dissipate adequately.

External Printer

The LATITUDE Programming System supports a broad range of external USB 2.0 and USB 3.0 printer drivers. Refer to "Connections" on page 18 to connect the printer's USB cable.

Some Bluetooth® printers are also supported. Refer to the Network and Connectivity Operator's Manual (Model 3924) for additional setup and use information.

USB Grounding Plug and Cable

A USB grounding plug and cable may be used with the Model 3300 Programmer to provide an earth ground to decrease noise interference to the LATITUDE Programming System. Contact your hospital/clinic biomedical engineering department for this standard piece of equipment.

WARNING:



System other than those provided by or specified by Boston Scientific could result in increased electromagnetic emissions described by the specified by Boston Scientific could result in increased electromagnetic emissions immunity, or electrical shock of the LATITUDE Programming System. Anyone r. i. aldrad version. Använd connecting such cables or accessories to the LATITUDE Programming System, including the use of MSOs (Multiple Socket Outlets), may be Vanhentunut versio. configuring a medical system and is responsible to ensure that the system complies with the requirements of IEC/EN 60601-1, Clause 16 for medical electrical systems.

External Display

You can use an external monitor (or equivalent) that can synchronize to any horizontal scan frequency.

NOTE: External monitors may require an adapter and/or cable to connect to the DisplayPort on the Programmer.

NOTE: Equipment connected to the external connections must comply with applicable standards for data processing equipment and for medical equipment.

WARNING:



The use of any cables or accessories with the LATITUDE Programming System other than those provided by or specified by Boston Scientific could result in increased electromagnetic emissions, decreased electromagnetic immunity, or electrical shock of the LATITUDE Programming System, Anyone connecting such cables or accessories to the LATITUDE Programming System, including the use of MSOs (Multiple Socket Outlets), may be configuring a medical system and is responsible to ensure that the system complies with the requirements of IEC/EN 60601-1, Clause 16 for medical electrical systems.

Left Side Panel of the Programmer on page 19 and Figure 3
Left Side Panel of the Programmer on page 19 to identify the port connections to the Programmer. Refer to Figure 2 Right Side Panel of the Programmer on page 19 and Figure 3 Pasenusi versila. Nenaudokite. Novecolusi versila. Neizma to the Programmer. Jersione obsoleta. Nor oth Seen verouder de versie. Niet of Jrelt Litolata. Notio Mersia bilefeliuinonana. Me lighwat. Tidateri versjon skalikke brukes.

Elavult verzió. Ne haszhalia

Versinne expiration. Anuse utiliza.

Zastarana verlia. Nepolitivat.

Zastarela razlicica. Ne uporabite

Vanhentunut versio. Ala kayte rise Aldrad Version. Använd

Versão obsoleta. Não utilize.

Patient Side Panel (Right Side)

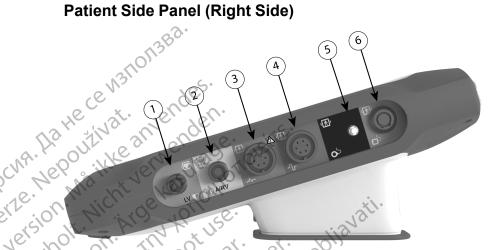
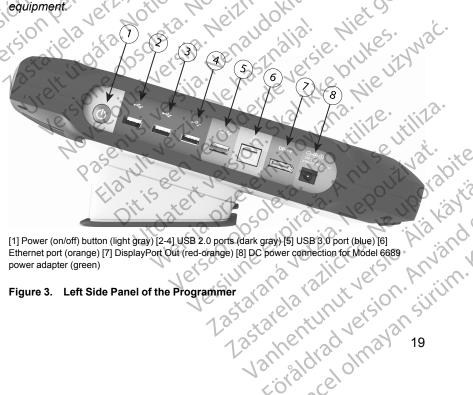


Figure 2. Right Side Panel of the [1] Model 6763 PSA Cable for LV (green) [2] Model 6763 PSA Cable for A/RV (light gray) [3] Model 3154/3153 ECG Cable (dark gray) [4] connection port for future use (brown) [5] Model 3203 S-ICD

NOTE: Equipment connected to the external connections must comply with applicable standards for data processing equipment and for medical equipment.



[1] Power (on/off) button (light gray) [2-4] USB 2.0 ports (dark gray) [5] USB 3.0 port (blue) [6] Vanhentunut vers Ethernet port (orange) [7] DisplayPort Out (red-orange) [8] DC power connection for Model 6689 Lastarela razli power adapter (green)

Figure 3. Left Side Panel of the Programmer

Indicator Lights

The Programmer has an indicator light on the left side of the device contained within the power (on/off) button \circ . The Model 6395 Telemetry Wand has an indicator light on the front face. The functions are described below.

- O Power (on/off) button is lit when the Programmer is on.
- The light on the Model 6395 Telemetry Wand illuminates to indicate that inductive telemetry is established and is actively communicating to a PG.

STAT Button

The Programmer has a red STAT button on the front top-right of the device. Depending on the situation, the STAT function provides STAT PACE. ,emojte upotrebljavati STAT SHOCK, or DIVERT THERAPY.



[1] Red STAT button

Figure 4. Front View of LATITUDE Programming System Indicating the Red STAT Button Location

USING THE LATITUDE PROGRAMMING SYSTEM

Preparation for Use

Battery Charge Level and Charging

The Lithium-ion battery for the Programmer is not charged when shipped. To charge the battery, perform the following steps.

NOTE: Before using the battery with the LATITUDE Programming System, ensure that the battery is fully charged.

- Connect the AC power and turn on the Programmer. See Figure 3 Left 1.
- which displays the battery status indicator in the upper wodel 3300 Programmer Main Screen on page 27.

 Nominally, battery charging can take 1-2 hours when the battery is less than 30% charged. 2.
- 3.

NOTE: As long as the Programmer is plugged in (connected to AC power), the battery will charge. The Programmer does not have to be powered on to recharge the battery.

Prepare a Telemetry Wand

Depending on the PG being used, prepare the appropriate wand.

Model 6395 Telemetry Wand

CAUTION: The Model 6395 Telemetry Wand is shipped non-sterile. Remove the wand from all packaging material before sterilizing it. If the wand is to be used in a sterile field, it must be actively sterilized before use or enclosed in a disposable sterile surgical sheath (Model 3320) during use. Refer to "Cleaning" the Programmer and Accessories" on page 45 for sterilization and cleaning information.

If needed, prepare the Model 6395 Telemetry Wand for the sterile field by following the procedures in "Cleaning the Programmer and Accessories" on page 45 or by enclosing the wand in a Model 3320 Sterile Sleeve.

Model 3203 S-ICD Telemetry Wand

CAUTION: The Model 3203 S-ICD Telemetry Wand is shipped non-sterile. Remove the wand from all packaging material before use. If the wand is to be (Model 3320) during use. Refer to "C on page 45 for cleaning information. To use the Model 3203 Supering telemetry. used in a sterile field, it must be enclosed in a sterile intraoperative probe cover (Model 3320) during use. Refer to "Cleaning the Programmer and Accessories"

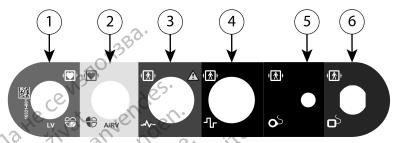
To use the Model 3203 S-ICD Telemetry Wand as an additional antenna for RF telemetry, refer to "Prepare for ZIP (RF) Telemetry" on page 24.

If needed, prepare the Model 3203 S-ICD Telemetry Wand for the sterile field by enclosing the wand in a Model 3320 Sterile Sleeve.

For connector locations, refer to the panels on the Model 3300 Programmer System right side and left side (Figure 2 Right Side Panel of the Recompage 19 and Figure 2.1.2# 0.1.

Make Patient Side Connections

Versiune expirata. Anuse utiliza. As needed, make the following connections on the right side of the Programmer Zastarana verzia. Nepoużówat. Nersja Przeterminow Versão obsoleta. Não ut Zastarela različica. Ne uporabite Programmer.



[1] Model 6763 PSA Cable for LV (green) [2] Model 6763 PSA Cable for A/RV (light gray) [3] Model 3154/3153 ECG Cable (dark gray) [4] connection port for future use (brown) [5] Model 3203 S-ICD Telemetry Wand (black) [6] Model 6395 Telemetry Wand (blue)

Figure 5. Right Side (Patient) Panel

- For PSA measurements, connect the appropriate PSA cable to the appropriate connector (LV or A/RV).
- Connect the appropriate telemetry wand to its connector:
 - Model 6395 Telemetry Wand
 - Model 3203 S-ICD Telemetry Wand

NOTE: Under battery-operated power with wanded telemetry, the LATITUDE Programming System is able to communicate with the PG beneath the patient's skin. For most pectoral implants, the telemetry is sufficient to communicate with the PG. For abdominal implants, the distance may be greater and battery-operated power only may not be sufficient to maintain reliable communication. To achieve maximum inductive telemetry communication with the PG, always use external power.

Connect the surface ECG patient cable to the ECG connector. Attach the surface electrodes to the patient in a standard three-wire or five-wire configuration.

NOTE: The ECG function may be sensitive to high-frequency ambient noise when the ECG inputs are not attached. If the electrodes are not attached to the patient, they may be sensitive to high-frequency environmental noise and therefore provide a poor signal. The ECG surface traces can be turned off if excessive noise is present.

The ECG function is intended to be used during patient exams for NOTE: tests such as pace threshold testing.

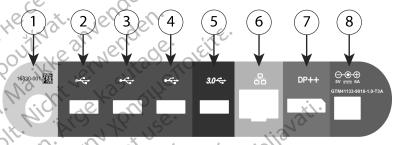
The ECG function may exhibit noise interference if the r. i. aldrad version. Använd LATITUDE Programming System is in close proximity to high-frequency electrosurgical equipment. For corrective action, refer to "Troubleshooting on page 55.

If RF telemetry is insufficient, connect the Model 3203 S-ICD Telemetry 4. Wand to its connector. The S-ICD telemetry wand acts as an extra RF antenna. Orient this wand as necessary to improve RF telemetry

communication performance. Refer to "Steps to Improve ZIP (RF) Telemetry Performance" on page 25 for additional information.

Make Physician Side Connections

As needed, make the following connections on the left side of the LATITUDE Programming System.



[1] Power (on/off) button (light gray) [2-4] USB 2.0 ports (dark gray) [5] USB 3.0 port (blue) [6] Ethernet port (orange) [7] DisplayPort out (red-orange) [8] DC power connection for Model 6689 Power Adapter (green)

Figure 6. Left Side (Physician) Panel

- Connect the power cord to the DC receptacle on the left side panel of the Programmer.
- To connect an external USB printer, attach the appropriate USB cable (2.0 or 3.0) to the appropriate USB port on the Programmer. Then, ensure that the printer is connected to external power.

NOTE: Connect the printer to the USB port, then wait 30 seconds for the system to recognize the printer before sending files to the printer.

NOTE: The LATITUDE Programming System has Bluetooth® capability. which can be used to connect with Bluetooth® capable printers. Refer to the Network and Connectivity Operator's Manual (Model 3924) for additional setup and use Information.

- Use the DisplayPort Out connector to attach an external monitor. Then 3. ensure that the monitor is connected to external power.
- 4. To connect to a LAN, attach an Ethernet cable to the Ethernet port.

NOTE: Connect the Ethernet cable only to the RJ45 Ethernet port connector on the Model 3300 Programmer.

NOTE: Additional steps need to be completed when using Bluetooth® or LAN communications. Refer to the Network and Connectivity Operator's Manual (Model 3924) for additional information.

Ensure the power adapter cable is plugged into the DC port on the left side 5. of the Programmer and the power cord is plugged into the power adapter.

es s NOTE: Ensure the left side of the device is accessible at all times so that the power cord can be connected and disconnected. al almayan

Electrosurgical Cables

Electrosurgical cables must be kept at least 30 cm (12 in) away from the LATITUDE Programming System to avoid false screen traces when electrosurgical energy is applied.

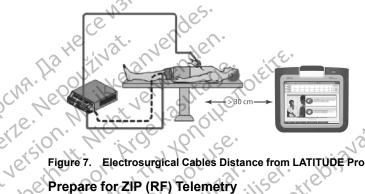


Figure 7. Electrosurgical Cables Distance from LATITUDE Programming System

Prepare for ZIP (RF) Telemetry

The ZIP telemetry feature is not available for all Boston Scientific PGs. For more information, refer to the associated product literature for the PG being interrogated.

For PGs that communicate using ZIP telemetry:

- For optimum ZIP telemetry communication, position the LATITUDE Programming System within 3 m (10 ft) of the PG.
- Remove obstructions between the LATITUDE Programming System and the PG.

NOTE: Reorienting or repositioning the LATITUDE Programming System may improve ZIP telemetry performance.

NOTE: The Model 3203 S-ICD Telemetry Wand may be used as a third RF antenna to improve RF telemetry performance.

Versiune expiration. Anuse utiliza. Versão obsoleta. Não utilize Wersja Przeterminowar NOTE: If ZIP telemetry performance is not successful, use the Model 6395 Utdatert versjon. Sk Telemetry Wand to interrogate the PG. Ditis een veroi Zastarana verzia. Nepoużíwat.

Zastarela različica. Ne uporabite

Vanhentunut versio. Ala käytä rise larad version. Anvand



[1] Internal antenna locations, approximate

Figure 8. Front View of LATITUDE Programming System Indicating Approximate Antenna Locations Within the Enclosure

Steps to Improve ZIP (RF) Telemetry Performance

Perform the following to increase RF telemetry performance:

- 1. Disconnect all unused cables and wands and stow them.
- All remaining connected patient side cables (PSA, ECG) should exit perpendicular to the Programmer and (as much as possible) directly toward the patient.
- All remaining connected physician side cables (power, USB, DisplayPort, Ethernet) should be routed away from the patient.
- If there are any electrical equipment (laptop, monitor, etc.) or metal objects adjacent to the Programmer, move them away from the Programmer as much as possible.
- Move the Programmer closer to the patient, ideally away from a busy or crowded location in the room.
- Change the Programmer orientation by rotating the Programmer up to 45 degrees clockwise or counter-clockwise or by placing the Programmer into the optional Model 6755 Stand.
- 7. Ensure that clinic staff are not in the line of sight between the Programmer and the implanted PG.
- 8. If telemetry is still not consistent, attach the Model 3203 S-ICD Telemetry Wand and place it within 0.6 m (2 ft) of the implanted PG. In the sterile field, use a Model 3320 Intraoperative Probe Cover and place the wand on top of the patient's stomach.
 - When not used for RF telemetry, be sure to disconnect the Model r. i. Aldrad Version. Använd 3203 S-ICD Telemetry Wand from the Programmer to prevent telemetry dropouts.
- Vanhentunuitversio If ZIP telemetry is not successful for a PG capable of RF telemetry, use the 9. Model 6395 Telemetry Wand to interrogate the PG.

Startup

To turn on the LATITUDE Programming System:

- 1. Connect the power adapter cord to the DC receptacle on the left side panel of the LATITUDE Programming System (Figure 3 Left Side Panel of the Programmer on page 19).
- 2. Plug the AC power cord into the power adapter and an appropriate AC outlet.
- 3. Press the power button C

NOTE: It can take up to one minute for the Model 3300 Programmer to complete its self tests and display the startup screen. During this time, the screen may be flashing or blank.

Wait for the startup screen to appear.

NOTE: During system startup, observe the screen for any messages. If an error message appears, do not use the device, write a detailed description of the error, and contact Boston Scientific using the information on the back cover of this manual.

5. When startup is complete, the main screen displays (Figure 9 Model 3300 Programmer Main Screen on page 27), and the system is ready for use.

The Programmer's touchscreen allows you to select items such as buttons, check-boxes, and tabs that are displayed on the screen. Only one item can be selected at a time.

exactly match your screens. NOTE: The screen images in this manual are representative and may not

Wersia przeterminowana. We liżywat. Jitdatent versjon. Skalikke brukes CAUTION: If you want to use a stylus, ensure that it is a projected capacitance stylus. The use of any other object could damage the touchscreen. Pasenúsi versija. Nenal oit is een verouderde versie. Elavult verzió. Ne használ

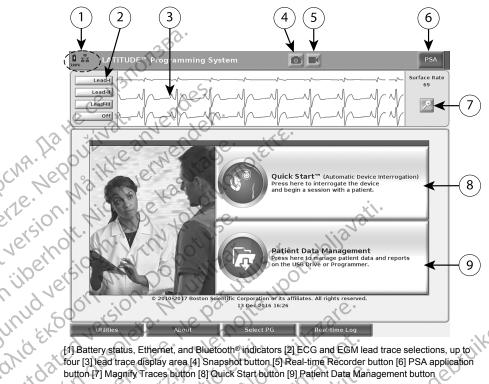
Versiune expiration. Anuse utiliza.

Zastarana verzia. Nepoużówat.

Zastarela različica. Ne uporabite

Vanhentunut versio. Ala kayte rise Aldrad Version. Använd

Versão obsoleta. Não utilize.



[1] Battery status, Ethernet, and Bluetooth® indicators [2] ECG and EGM lead trace selections. up to four [3] lead trace display area [4] Snapshot button [5] Real-time Recorder button [6] PSA application button [7] Magnify Traces button [8] Quick Start button [9] Patient Data Management button

Model 3300 Programmer Main Screen Figure 9.

When the LATITUDE Programming System is powered on, a Start Application window displays a progress bar as the software loads. Normally this takes up to one minute. When complete, the main screen displays the following as illustrated in Figure 9 Model 3300 Programmer Main Screen on page 27:

- The status area displays battery charge status and Wi-Fi, Ethernet, and Bluetooth® connectivity indicators
- The lead trace display, which can show up to four lead traces for patient assessment such as from a surface ECG or a PSA
- There are two buttons (Snapshot and Real-time Recorder top of the screen for capturing real-time recordings of lead traces during ECG, PG, and PSA activity
- The PSA button activates the PSA application (see "Pacing System" Analyzer (PSA)" on page 33)
- initiates PG communication to read a specific al almavan siriim. The Quick Start button Jaff. transvenous PG

- The Patient Data Management button is used only with transvenous PGs and accesses patient data for export, printing, transfer, and deletion
- The Magnify Traces button enlarges the lead trace area to fill the display window and provides additional information as illustrated in Figure 10 Magnify Traces Screen (During PG Session) on page 28



Figure 10.

At the bottom of the screen are the following:

- The Utilities button, which allows access to LATITUDE Programming System information and setup functions the user may use prior to accessing the application software

 The About button
- pen drive the LATITUDE Programming System configuration information (applications installed on the system and their associated version numbers)
- The Select PG button allows the desired transvenous PG application software to be selected and started, and includes the DEMO MODE option for some PG applications (see "Demo Mode" on page 35)
- The Real-time Log button, which is used only with transvenous PGs, provides access to recording of various events from surface ECG and PSA
- ee Anvand The date and time are located at the bottom-center area of the screen as shown in Figure 9 Model 3300 Programmer Main Screen on page 27 (see "Date and Time Tab" on page 36 for time zone setting)

PSA Button

The PSA button in the upper right of the startup screen switches the screen view and activates the PSA application. Refer to the Pacing System Analyzer (PSA) Operator's Manual (Model 3922) for details and instruction on using this application.

Quick Start Button

The Quick Start button on the main screen is used to automatically identify and interrogate the implanted transvenous PG. Refer to "Start a Transvenous PG Session" on page 30 for additional information.

Patient Data Management Button

The Patient Data Management application is used only with transvenous pulse generators and allows you to export, transfer, print, read, and delete patient data, which has been saved to the Programmer hard drive or USB pen drive. Refer to the Patient Data Management Operator's Manual (Model 3931) for details and instruction on using this application.

STAT Button for Transvenous PGs

The STAT button is at the top-right of the Model 3300 Programmer.

The following actions occur when the STAT button is pressed:

- When the PG is in storage, off, or monitor only mode, STAT SHOCK or PG STAT PACE is delivered. If the STAT SHOCK or PG STAT PACE is delivered in storage, the tachy mode changes to off.
- When in telemetry communication with a high-voltage (ICD or CRT-D) PG a pop-up displays allowing the user to initiate a PG STAT PACE, STAT SHOCK, or DIVERT THERAPY command. If a PSA session is in progress a PSA STAT PACE option also displays.
- When in telemetry communication with a low-voltage PG, a pop-up displays allowing the user to initiate a PG STAT PACE or DIVERT THERAPY command. If a PSA session is in progress, a PSA STAT PACE option also displays as shown in Figure 11 STAT Button Pop-up in a Highvoltage PG Session with the PSA Application Running on page 30.
- When not in communication with a PG, an Interrogate button displays with text prompting the user to perform Quick Start to attempt to identify the device (see Figure 12 PSA STAT PACE Button Pop-up Outside Any PG session with the PSA Application Running on page 30). Once in a session with an implanted transvenous device, press the red STAT button again to display available options.
- PG STAT PACE initiates PG STAT PACE functionality for any supported transvenous device (ICD, CRT-D, Pacemaker/CRT-P).
- STAT SHOCK initiates PG STAT SHOCK functionality for supported highvoltage transvenous ICD and CRT-D PGs.
- al almavan sürüm. transvenous device (ICD, CRT-D, Pacemaker/CRT-P) and, while in a PG session, stops the pending therapy DIVERT THERAPY - initiates PG DIVERT THERAPY for any supported rival Hrad Versior

PSA STAT PACE - when a PSA session has been enabled, it configures the PSA with STAT PACE settings and functionality.

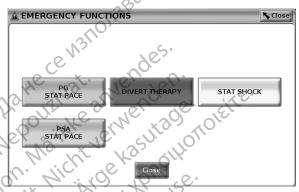
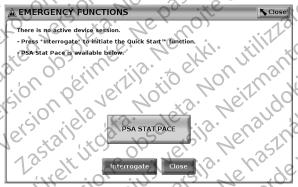


Figure 11. STAT Button Pop-up in a High-voltage PG Session with the PSA Application Running

The top row buttons (PG STAT PACE, DIVERT THERAPY, and STAT SHOCK) display during a PG session.



Nielizywać. PSA STAT PACE Button Pop-up Outside Any PG session with the PSA Figure 12. Application Running

If not in a PG session, the STAT button brings up the following dialog with no buttons: "There is no active device session. Press "Interrogate" to initiate the Quick Start™ function."

Vanhentunut versio. Ala käytä If in a PSA session only (no PG interrogated), then the same dialogue displays rise larad version. Anvand along with the PSA STAT PACE button (see Figure 12 PSA STAT PACE Button Pop-up Outside Any PG session with the PSA Application Running on page 30).

Start a Transvenous PG Session

A transvenous PG session can be started two ways:

CNA.

- 1. Use the Quick Start button to automatically identify the PG that is connected to the system.
- Use the Select PG button to manually choose which application to start a 2. session with the PG device.

Quick Start (Button)

- Place the Model 6395 Telemetry Wand over the PG, and select the Quick Start button.
- A message window displays, indicating one of the following conditions. based on the implanted PG:
 - Application startup in progress If the software for the implanted PG is installed on the LATITUDE Programming System, it will identify the PG, start the correct application, and automatically interrogate the PG.
 - PG not identified If a non-Boston Scientific PG or a Boston Scientific PG for which there is no application loaded on this Programmer is interrogated, a message window displays indicating that the PG is not identified9.
 - Out-of-range and noise messages display to notify the user that the wand is out of range or telemetry noise is present.
- To proceed with the interrogation session, refer to the associated product literature for the PG being interrogated.

Select PG (Button)

Use the Select PG button at the bottom of the screen to manually interrogate a transvenous PG.

- Place the Model 6395 Telemetry Wand over the PG, and click the Select PG button on the startup screen.
- Select the icon that represents the desired PG family.
- Click the Interrogate button on the pop-up window
- To proceed with the interrogation session, refer to the associated product literature for the PG being interrogated.

For more information about the Quick Start and Select PG options, refer to the associated product literature for the PG being interrogated.

The Select PG button also allows you to access DEMO MODE. See Jgrammer. ,ent. JM™ LATITUDE™ Programmer/ ,e. NOTE: "Demo Mode" on page 35.

Surface ECG

To run a surface ECG:

- Connect the Model 3154 ECG cable¹⁰ to the Model 3300 Programmer 1.
- Connect the cable to the electrodes attached to the patient.
- Some older Boston Scientific PGs require the use of the ZOOM™ 9. Recorder/Monitor (PRM), Model 3120 for programming.
- For Canada and China use the Model 3153 ECG Cable. 10.

3. As needed, use the Snapshot and Real-time Recorder buttons to record ECG trace information.

The ECG or PSA traces will display on the main screen. Refer to Figure 9 Model 3300 Programmer Main Screen on page 27 for additional main screen information.

ECG Display

When the ECG patient cable is connected to the patient and the Programmer. the ECG display shows surface ECG signals without PG interrogation.

If ECG information is desired to be reviewed or saved, use the Snapshot or Real-time Recorder buttons to create a real-time log.

NOTE: The LATITUDE Programming System can display four surface traces of up to six limb leads or one chest lead. The top displayed lead will be annotated with the pacing spike marker if that feature is selected. To display the pacing spike markers correctly, the electrodes connected to the Lead-II display trace must be connected to the patient regardless of which lead is displayed. The Surface Rate will display the ventricular rate.

NOTE: The ECG functionality of the LATITUDE Programming System is intended to support diagnostic activities pertaining to implanting, programming, and monitoring Boston Scientific implantable PGs. The LATITUDE Programming System is not intended for use as an ECG monitor or general diagnostic device.

WARNING:



Operation of the LATITUDE Programming System with physiological signals that are lower than the minimum detectable amplitude may cause inaccurate results.

ECG Full Screen Display

To expand the ECG display to a full screen, select the Magnify Traces button

on the right side of the trace display area, then use the following screen buttons to change the values and appearance of the traces (see Figure 10 Magnify Traces Screen (During PG Session) on page 28):

- Trace Speed Select the desired speed on the ECG display: 0 (stop), 25 or 50 mm/s
- Trace 1, Trace 2, Trace 3, and Trace 4 Select the lead traces to be displayed
- Gain Select the appropriate value to adjust the surface gain of the traces that are captured on printouts
- ine Anvand Calibrate button – Transmits a 1 mV calibration pulse so the user has a reference point to evaluate amplitudes
- Baseline button Forces the trace back to the baseline and is normally used after a defibrillation shock
- Enable Surface Filter Select the check box to minimize noise on the surface ECG

- Display Pacing Spikes Select the check box to show detected pacing spikes, annotated by a marker on the top waveform
- Show PG Markers When in a PSA application session, select the check box to enable the PG markers.

NOTE: The values as set up on the startup screen will be the defaults used for the application traces. The corresponding values can be changed from the trace selections screen while in the application. For detailed application programming instructions, refer to the associated product literature for the PG being interrogated.

Intracardiac Electrogram

Intracardiac electrograms may be displayed on the Programmer screen. Intracardiac electrograms and event markers can be captured and printed using the Real-time Log feature. For detailed instructions, refer to the associated product literature for the PG being interrogated.

Pacing System Analyzer (PSA)

The PSA application is used to assess electrical performance and placement of cardiac lead systems during implant of cardiac rhythm management devices. The PSA application displays real-time EGM traces and event markers for each enabled channel. Real-time EGMs display on the same screen as the surface ECG, which includes a heart-rate indicator.

Refer to the Pacing System Analyzer (PSA) Operator's Manual (Model 3922) for additional information on how to use the PSA application of the LATITUDE Programming System, Model 3300.

Patient Data Management Utility

The Patient Data Management application provides the ability to generate reports, and print, save, or transfer related data. The printable reports detail PG functions, stored patient data, and test results. Stored patient session data can be recalled later in the patient session for analysis (for certain applications only) and saved to the Model 3300 Programmer hard drive and/or saved to a removable USB pen drive and optionally encrypted.

Refer to the Patient Data Management Operator's Manual (Model 3931) for additional information on the use of this application.

Parameter Changes, Data Entry, Demo Mode, and Utilities

Changing Parameter Values

r. i. aldrad version. Använd The screens for many of the features contain parameter information that can be changed via either a palette window or a keyboard window. Vanhentunut versio.

Amplitude			
0.1 0.9	1.7 2.5	3.3 4.1	4.9 8.5
0.2 1.0	1.8 2.6	3.4 4.2	5.0 9.0
0.3 1.1	1.9 2.7	3.5 4.3	5.5 9.5
0.4 1.2	2.0 2.8	3.6 4.4	6.0 10.0
0.5 1.3	2.1 2.9	3.7 4.5	6.5
0.6	2.2 3.0	3.8 4.6	7.0
0.7 1.5	2.3 3.1	3.9 4.7	7.5
0.8 1.6	2.4 3.2	4.0 4.8	8.0

Figure 13. Palette Window - Parameter Selection Example

Palette Window

To change a parameter value, first select the appropriate parameter's value box. A palette window will appear. Select a value from the palette window by touching the desired value; the window will automatically close when a selection is made. To close a window without making a selection, touch the screen outside the window.

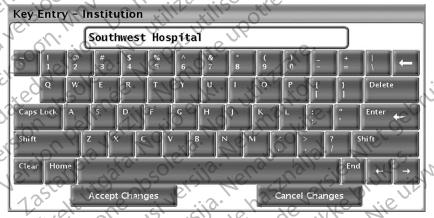


Figure 14. **Keyboard Window Example**

Keyboard Window

Some screens display value boxes that require unique data to be entered. typically from a keyboard window. To enter data from a keyboard window, first select the appropriate value box. A keyboard window will appear. Touch the first character of the new value; it will appear in the data-entry box in the graphic keyboard. Continue until the entire new value appears in the box. To r. i. aldrad version. Använd delete one character at a time, starting with the last character, select the left arrow key on the graphic keyboard. Each time the left arrow key is selected, a character will be deleted in the box. To cancel any deletions or additions just made, select the Cancel Changes button on the graphic keyboard. When all the appropriate characters have been selected, select the Accept Changes button on the graphic keyboard.

NOTE: If, when the keyboard window initially appears, it contains data in the data-entry box, select the Clear button on the graphic keyboard to delete all the characters in the data-entry box.

Demo Mode

Demonstration (Demo) mode is available for some PGs. To access the Demo mode click on the Select PG button at the bottom of the screen, identify the device/family by clicking its icon, then click the Demo button on the SELECT PG MODE pop-up.



Figure 15. SELECT PG MODE (Demo) Pop-up (ICD/CRT-D Selected)



PG Demo Mode Figure 16.

The main application screen displays with the demo mode message and DEMO MODE logo at the top of the screen as illustrated in Figure 16 PG Demo Mode on page 35. The software application screens displayed during the demo mode reflect the features and programmable values of the PG family selected.

To exit the demonstration mode, select the End Session button in the lower right corner of the screen.

Utilities Button

rise larad version. Anvand Before accessing the PG software application, you can select the Utilities button to perform the following actions described in this section.



Figure 17. Utilities

The Utilities screen displays four tabs – Setup, Date and Time, Network Setup, and Software Update.

The Setup tab (see Figure 17 Utilities on page 36) allows you to:

- Change the language displayed.
 Enable wanded telemetry or geography). Enable wanded telemetry or ZIP telemetry (if it is approved for use in your
 - Jie Używać. As indicated in Figure 17 Utilities on page 36, ZIP telemetry may not be enabled (the button is grayed out). If needed, contact Boston Scientific using the information on the back cover of this manual to have a representative enable ZIP telemetry

Date and Time Tab.

Versine expirata. Anuse utiliza. wersja przeterminowana Jersao obsoleta. Nao utili Ze The Date and Time tab is used to select the TIME ZONE for the Programmer. The date and time display at the bottom of the main screen. Zastarana verzia. Nepoużlyał. Utdatert version. Lastarela razlicica. Ne liporabite

Vanhentunut versio. Ala kayte rivaldrad version. Anvand



Figure 18. Utilities - Date and Time

NOTE: The LATITUDE Programming System clock synchronizes automatically when connected to a network. If there is no network connection, then the Boston Scientific representative can set the Programmer internal clock using a special USB key.

NOTE: If a pop-up displays asking to synchronize the clocks, follow the prompts to synchronize them

Network Setup Tab

The Network Setup tab provides connectivity to networks and devices via Wi-Fi, Bluetooth®, and Ethernet. Refer to the Network and Connectivity Operator's Manual (Model 3924) for additional network configuration and setup information.

Software Update Tab

The Software Update tab allows you to install software updates. The user may choose from downloading and installing all updates or reviewing and selecting updates from those available.

Updates are delivered online via the Internet. In addition, updates may be supplied on USB pen drives. Contact your local Boston Scientific representative using the information on the back cover of this manual for additional details concerning software updates on a USB pen drive.

Online Updates

From the Utilities screen, select the Software Update tab, which displays two buttons:

- Easy Install-directly begins downloading all available and qualified update packages. Once complete, the Programmer automatically restarts in install mode, completes the update, and returns to normal operation.
- Custom Install-displays the available and qualified update packages for , the , the user review/selection. Once the user completes the selection(s), they can proceed with the update and installation process. al almayar

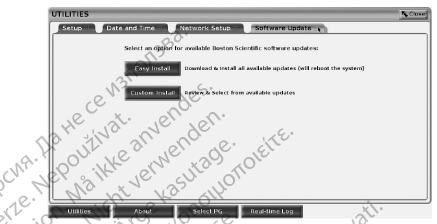


Figure 19. **Utilities - Software Update**

NOTE: Mandatory updates must be installed and cannot be unselected.

Boston Scientific is automatically informed when the software update has been successfully downloaded.

If the download is not successful, retry the download before contacting Boston Scientific for assistance.

Once downloading completes successfully, the Programmer restarts in install mode and displays the list of qualified Update Packages. Click on the Install button to begin installation.

When installation is complete, the programmer will restart (reboot).

NOTE: Allow the Programmer to fully restart because an update confirmation will be sent via the network to Boston Scientific indicating a successful software install.

Offline Updates

The Programmer can be updated via a special Software Install¹¹ USB pen drive. When the software installation completes an offline update, power the Programmer off and back on to complete the process.

Software Install via USB pen drive is available only by your Boston Scientific representative. NOTE: Allow the Programmer to fully restart because an update confirmation will be sent via the network to Boston Scientific indicating a successful software install.

Select the About button to display the About screen

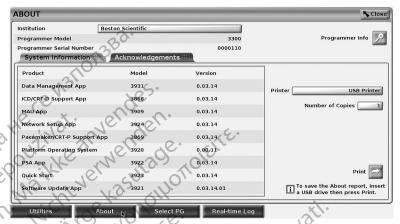


Figure 20. **About Screen**

Use the About screen to perform the following actions:

- Change the name of the institution. Select the value box next to Institution. Refer to detailed instructions for entering new data using the keyboard window (Figure 14 Keyboard Window Example on page 34).
- View the LATITUDE Programming System model and serial number information.
- Select the System Information tab and view the LATITUDE Programming System information including the version numbers of the system software and the installed software applications.
- Print the LATITUDE Programming System information (known as the About report).
 - From the About screen (see Figure 20 About Screen on page 39) select a printer (USB or Bluetooth®), number of copies, and then select the Print button.

The printer (USB or Bluetooth®) selected in the Patient Data Management application (Model 3931) is the printer that displays in the About screen.

NOTE: If no printer is available, the About report can still be saved to an attached USB pen drive by pressing the Print button.

Selecting a PG

To select a PG, first select the Select PG button, shown at the bottom of Figure 20 About Screen on page 39, to display the SELECT PG screen. NOTE: If a USB pen drive is inserted in the Model 3300 Programmer



SELECT PG Screen

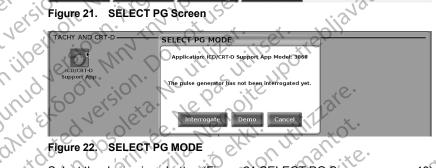


Figure 22. SELECT PG MODE

Select the device icon button (Figure 21 SELECT PG Screen on page 40), then select the Interrogate button in the message pop-up as illustrated in Figure 22 SELECT PG MODE on page 40.

interrogated, the application loads, checks system status, and then displays the Summary screen (Figure 23 Summary Screen on page 41) for the chosen device therapy. Jitdaterit versjon. Skalikke Wersia przeterminowana. Wie Dit is een verouderde Pasenusi Versija. Elavult verzió. Ne Versiune expiration. Anuse utiliza. Versão obsoleta. Não Utilize.

Zastarana verzia. Nepoużlyał.

Lastarela razlicica. Ne liporabite

Vanhentunut versio. Ala kayte rivaldrad version. Anvand

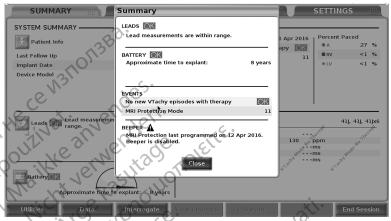


Figure 23. **Summary Screen**

If the PG device is not found, a device not supported message displays and allows you to end the session.

Real-time Log for Transvenous PGs

The LATITUDE Programming System provides recording of various real-time ECG and EGM events from a transvenous PG and PSA.

Two buttons on the header bar of the screen are used for real-time recording of lead traces and PSA activity. שנים..... we buttons on the header bead traces and PSA activity.

- The Snapshot button - records up to 12 seconds per button press (10 seconds after and 2 seconds before). Press once to start and again to stop.
- records continuously Real-time Log – the Real-time Recorder button upon button press, and stores data in 3-minute segments until a second press ceases recording. While recording is in progress, the icon blinks to reflect that storage is ongoing.
- Up to 100 individual recordings can be maintained during a session. In the Lastarela razlicica. Ne liporabite Lastarana verlia. Nepoully at 1 event more than 100 are captured, the oldest will be deleted to accommodate newer. A Real-time Log is not retained from session to session; if not saved as a PDF or printed, it is deleted upon ending the Vanhentunut versio. Ala kayte Versiune expirata. A current device session or starting a new device session. Versão obsoleta

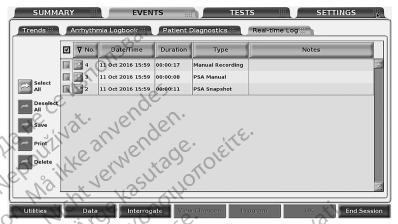
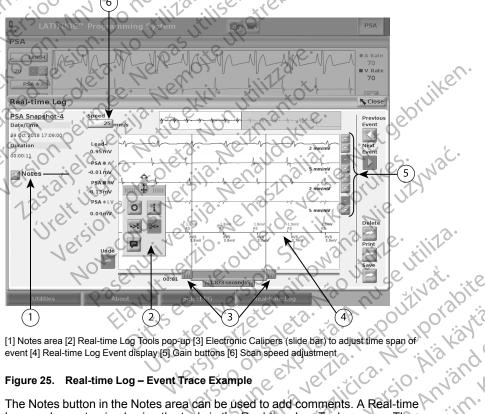


Figure 24. Real-time Log - List Screen



The Notes button in the Notes area can be used to add comments. A Real-time Log can be customized using the tools in the Real-time Log Tools pop-up. The al almavan siriim. Log can be customized using the tools in the Real-time Log Tools pop-up. The

Electronic Calipers at the bottom of the screen can be adjusted to measure the desired time span.

Real-time Log Tools

Select any part of the Real-time Log Event display, and the Tools pop-up displays as in Figure 25 Real-time Log – Event Trace Example on page 42. At the top center of the pop-up is an arrow and a target icon. When a tool is selected, the tool action occurs at that target point on the screen. A new Tools pop-up displays each time you select another part of the Real-time Log Event display, so that you can use multiple tools anywhere on the display.

The five tools are:

- Circle tool places a circle on the display at the target point.
- Line tool places a dashed vertical line on the display at the target point.
- Left scissor tool 🎬 - removes the left-hand portion of the display from the target point.
- Right scissor tool removes the right-hand portion of the display from the target point.

NOTE: When using the scissors tools, the original trace is still available in the Real-time Log.

- displays a keyboard to type in any notes, which then Annotation tool 🖳 appear on the trace.

Electronic Calipers

Use the Electronic Calipers (slide bar) to adjust the time span of the Snapshot trace. The time interval between the calipers is measured in seconds. A caliper can be repositioned by selecting it and then dragging it to expand or collapse the time frame. For detailed instructions on using the Electronic Calipers, refer to the associated product literature for the PG being interrogated.

Real-time Log Events

PG events that qualify for automatic real-time recording are listed in Table 1 PG Events on page 43. The device action that initiates storage is recorded in the Real-time Log.

PG Events

Event Type	Trigger Event	Duration of Recording (seconds)
Presenting	Initial Interrogation Completed	120 10 Ne N
Electrocautery Mode	Electrocautery Mode Entered	12 hickory
PG STAT PACE	PG STAT PACE Commanded	12 0 11 30 0
	Lastale Lastale Lastale	raldrad venayan 43

Table 1. PG Events (continued)

Event Type	Trigger Event	Duration of Recording (seconds)
DIVERT THERAPY	DIVERT THERAPY Commanded	12
PACE THRESHOLD TEST (AUTO, A, V, RV, LV, Ampl, and PW)	Threshold Test Ended	12
INTRINSIC AMPL TEST (A, V, RV, and SSI)	Intrinsic Ampl Test Completed	12
TEMP BRADY	Temp Start Entered, Temp End Entered	Temp Start to Temp End
STAT SHOCK	STAT SHOCK Commanded	48 10
Commanded V ATP	ATP Commanded	12
Commanded V Shock	Shock Commanded	12
Fib Induction High	Fib Induction Commanded	24
Fib Induction Low	Fib Induction Commanded	24
Shock on T Command	Shock on T Commanded	43%
Ventricular PES	PES Commanded	24
Atrial PES	PES Commanded	24
PG Ventricular Burst Pacing	PG Burst Completed	24 7 1/2 1/25. 1/26.
PG Atrial Burst Pacing	PG Burst Completed	24 (5)
PG Ventricular 50 Hz Burst Pacing	PG Burst Completed	24 ILKE NIE
PG Atrial 50 Hz Burst Pacing	PG Burst Completed	240 Margarilize
PG Fault	PG Fault Occurred	12 50 50 171.
PSA events are automation Table 2 PSA Events on	X \\(2) \\ \(\)	eta, 20, 100, 37
4	123,50	inglying olwayari

Table 2. PSA Events

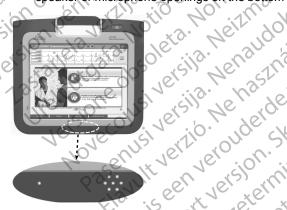
Event Type	Trigger Event	Duration of Recording (seconds)
PSA PACE THRESHOLD TEST (A, RV, and LV)	PSA Save Threshold button pressed	12
PSA BURST PACING	PSA Burst button released	24

Cleaning the Programmer and Accessories

In addition to turning off the Model 3300 Programmer and disconnecting the power cord, Boston Scientific recommends removing the battery in the Programmer before cleaning. See "Battery Status, Installation, Replacement, and Recycling" on page 48 for instructions on removing the battery.

Clean the enclosure and touchscreen of the Programmer with a soft cloth lightly dampened with water, isopropyl alcohol, or mild detergent.

- DO NOT use a hand disinfectant solution on the Programmer or the display screen.
- DO NOT allow cleaning solution or moisture to come in contact with any port on the sides of the Programmer.
- DO NOT allow cleaning solution or moisture to come in contact with the speaker or microphone openings on the bottom front of the Programmer. , verouderde versie. Niet



versjon. Skalikke brukes.

Microphone and Speaker Openings
and the wands used with the LATT
hen packaged. Only the Mcc'
stry Wand can be steriii
ry Wand cannot The cables and the wands used with the LATITUDE Programming System are not sterile when packaged. Only the Model 6763 PSA cable and the Model 6395 Telemetry Wand can be sterilized. All other activities and the Model CD Telemetry Wand can us-wahdrad version. Anvähd

WARNING:



Before cleaning and disinfecting the Programmer surfaces, power down the device and disconnect the external power supply. Before operating the LATITUDE Programming System, let cleaning and disinfection agents used on the Programmer evaporate.

CAUTION: Do not use an abrasive cloth or volatile solvents to clean any portion of the device. See "Cleaning the Programmer and Accessories" on page 45 for recommended cleaning.

Cleaning Cables and Wands

At point of use:

When necessary, to prevent drying of any possible contaminants immediately after use, clean the cable or wand with a soft cloth dampened with sterile water.

Thorough Cleaning:

Thoroughly clean the cable or wand with a soft cloth dampened with a mild cleaning solution such as green soap, green soap tincture (U.S. Pharmacopeia), Borax, or alcohol-free hand soap. Use a fresh soft cloth dampened with sterile water to remove residue. Towel-dry or air-dry the cable. Visually inspect the cable to ensure contaminants are removed. Repeat the cleaning step until all visible contaminants are removed.

- DO NOT use an ultrasonic cleaner.
- DO NOT use an abrasive cloth or volatile solvents to clean any portion of a cable or wand.
- DO NOT immerse the cables
- DO NOT immerse the Model 6395 Telemetry Wand or the Model 3203 S ICD Telemetry Wand.
- DO NOT allow fluid to enter the cavity of the Model 6395 Telemetry Wand or the Model 3203 S-ICD Telemetry Wand.

NOTE: Discard the PSA and ECG cables and wands any time surface cracks appear in the cables and/or the cables discolor, become visibly worn, or if labeling becomes unreadable. See "Environmental Protection and Disposal" on page 61 for disposal information.

Disinfecting the ECG Cable

When necessary, disinfect the ECG cable using a 2% glutaraldehyde solution (such as Cidex), a bleach solution (such as 10% Sodium Hypochlorite), or a general disinfection solution approved for disinfection of medical external devices in the appropriate concentration per the product instructions for use.

Sterilization

NOTE: The Model 3203 S-ICD Telemetry Wand cannot be sterilized.

Ethylene Oxide (EO) Sterilization Instructions

Thor to sterilization, thoroughly clean the Model 6763 PSA cable or Model 6395 Telemetry Wand as indicated in the "Cleaning Cables and Wands" on page 46. al almavan sürüm. is"

Follow the recommendations of the EO sterilization equipment manufacturer and allow the specified aeration time to fully elapse prior to

The Model 6395 Telemetry Wand and the Model 6763 PSA cable may be sterilized using EO.

Parameter	Value
Temperature	50 °C (122 °F) minimum and 60 °C (140 °F) maximum
Pressure differential	106 kPa (15.4 psi)
Humidity	40% minimum and 80% maximum; non- condensing
EO dwell time	2 hours
EO concentration minimum	450 mg/L
Minimum aeration time	12 hours at 60 °C (140 °F)
Number of sterilization cycles permitted	6395 Telemetry Wand = 25
770 160 17 160	6763 PSA cable = 50

Steam Sterilization Instructions

- Prior to sterilization, thoroughly clean the Model 6763 PSA cable as indicated in the "Cleaning Cables and Wands" on page 46.
- manufacturer and allow the specified drying time to fully elapse prior to use.

 the Model 6763 PSA cable may be steam sterilized.

Only the Model 6763 PSA cable may be steam sterilized.

Parameter	Value (gravity sterilizers)	Value (dynamic-air- removal sterilizers)	3.
Temperature	121 °C (249.8 °F)	132 °C (269.6 °F)	·
Steam dwell time	30 minutes	4 minutes	pile
Drying time ¹²	15 minutes	20 minutes	No via
Number of sterilization cycles permitted	(5) 21/5/2 P (0) 50 T	50 13 NE N	9 Kg
12. This represents the typical drying time. Once sterilized, ensure that the device is dry prior to removing it from the chamber.			
2. This represents the typical drying time. Once sterilized, ensure that the device is dry prior to removing it from the chamber. 47			
	<.0	Karash	

Battery Status, Installation, Replacement, and Recycling

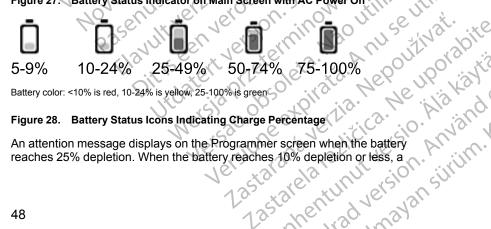
The Programmer battery has been tested and approved for hospital and clinic use. Battery status is a percent of charge remaining (see Figure 28 Battery Status Icons Indicating Charge Percentage on page 48) and, for transvenous PGs, is displayed in the upper left corner on the main Programmer screen as illustrated in Figure 27 Battery Status Indicator on Main Screen with AC Power On on page 48 and Figure 28 Battery Status Icons Indicating Charge Percentage on page 48.

NOTE: The battery should be replaced when it no longer maintains a charge above 25%.

NOTE: Depending on the age of the battery, a full charge should last for approximately two hours of normal operation.



Figure 27. Battery Status Indicator on Main Screen with AC Power On



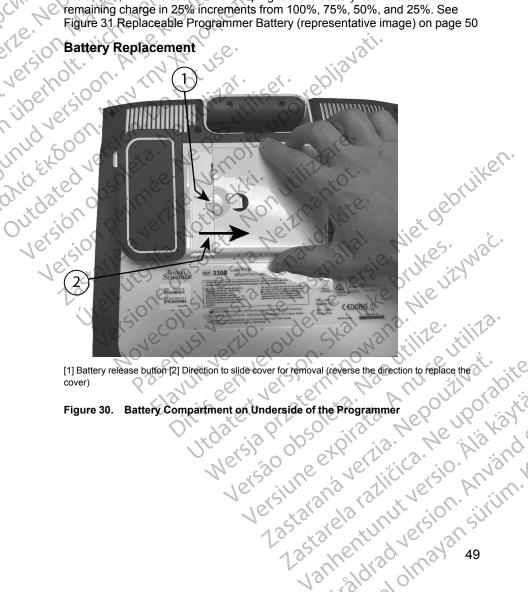
An attention message displays on the Programmer screen when the battery reaches 25% depletion. When the battery reaches 10% depletion or less, a

warning message displays. At 5%, there is another warning message followed by a 60 second automatic shutdown.



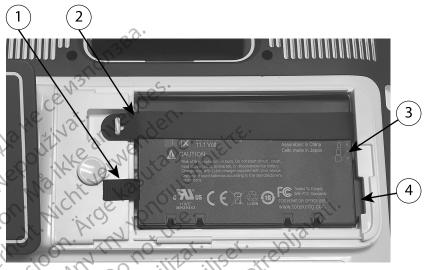
Battery Status - Attention and Warning Pop-ups

In addition, LED indicators on the top right of the battery itself indicate the remaining charge in 25% increments from 100%, 75%, 50%, and 25%. See Figure 31 Replaceable Programmer Battery (representative image) on page 50



Vanhentunut versio. Ala kayte

rise Aldrad Version. Använd



[1] Battery lift out tab [2] Battery retaining strap [3] Battery status indicator LEDs [4] Battery connector terminals (partially hidden)

Figure 31. Replaceable Programmer Battery (representative image)

NOTE: To obtain a replacement battery, contact Boston Scientific using the information on the back cover of this manual.

To remove the battery:

- Press and release the power button 0 to turn OFF the Programmer.
- If connected to AC power, unplug the AC power cord.
- If connected to the optional stand, unclip the stand and remove it.
- Place the device screen side down on a soft cloth.
- Press and hold the battery release button, then slide back the battery cover as illustrated in Figure 30 Battery Compartment on Underside of the Programmer on page 49.
- Release the battery retaining strap as identified in Figure 31 Replaceable 6. Programmer Battery (representative image) on page 50.
- Lift out the battery using the black tab attached to the left side of the 7. battery.

WARNING:



When accessing the battery, ensure that power to the Programmer is turned off. Do not touch the connector terminals in the battery compartment while removing or replacing the battery because electrical charge is present. Vanhentunut versio. Ala käytä Tribolidrad Version. Använd Lastarelarazlic

To install the battery:

- Insert the new battery (Model 6753) at a slight angle with the battery status indicators on the top right, to make a secure connection between the battery and Programmer contacts.
- 2. Press down on the left edge of the battery to ensure that the battery is fully seated, to allow the battery cover to fit flush with the case.
- 3. Determine the charge status by pressing the battery status button on the battery, which is located just above the battery status indicator LEDs.
- Replace the battery retaining strap.
- 5. Replace the battery cover by aligning the left edge of the cover with the middle of the battery release button (see Figure 30 Battery Compartment on Underside of the Programmer on page 49).
- Close the battery cover by sliding the door to the left until you hear an audible click.
- If the battery charge status is less than 100%, connect the Programmer to AC power. A full recharge from a depleted battery will take about 2 to 2 1/2 hours.

NOTE: As long as the Programmer is plugged in (connected to AC power), the battery will charge. The Programmer does not have to be powered on to recharge the battery. However, the Programmer must be turned on in order to check the battery charge status (see Figure 9 Model 3300 Programmer Main Screen on page 27).

NOTE: For best results, be sure to charge the battery to 100% before using the Programmer on battery power only.

Battery Recycling

Boston Scientific recommends that the Lithium-ion battery should be discharged to 25% or less of capacity, and should be recycled in a separate collection for electrical and electronic equipment. Do not place the battery in the trash.

NOTE: Do not include the battery when returning the Model 3300 Programmer to Boston Scientific Corporation.

WARNING:



The Model 6753 Battery is a Lithium-ion battery and, as such, is deemed a Dangerous Good in regards to shipping. Do not return the Model 6753 battery to Boston Scientific. Dispose of the battery as required by local regulations. If the battery must be shipped, contact your local shipper for instructions and shipping requirements.

Operation and Storage

The LATITUDE Programming System requires special handling. The internal hard drive of the Model 3300 Programmer must be protected from abusive handling. To protect the device from damage, refer to the following information:

• DO NOT turn off the LATITUDE Programming Systems in the hard drive is access.

DO NOT turn off the LATITUDE Programming System while the internal hard drive is accessing data.

- DO NOT subject the LATITUDE Programming System to shocks or vibrations.
- DO NOT place a magnet on the Programmer.
- DO NOT pour or splash liquid into or onto the Programmer.
- DO NOT strike, scratch, nick, or otherwise mar the touchscreen surface. Be sure to use only fingers or a capacitive stylus on the touchscreen.
- DO NOT disassemble the LATITUDE Programming System.
- When transporting the LATITUDE Programming System from an outside environment to an inside environment, allow the LATITUDE Programming System to acclimate to ambient temperature before use.
- Turn off the LATITUDE Programming System when not in use and prior to transporting it.
- Unplug all external cables and cords prior to transporting the LATITUDE Programming System.
- Keep the vents on the bottom of the Programmer free from obstruction.

Operating and transport conditions are listed in "LATITUDE Programming" System Nominal Specifications" on page 70.

If the LATITUDE Programming System has been stored outside of its normal operating conditions, let it sit at ambient temperature until it comes up to operating temperature range before use.

While the Programmer is in operation, the fan will automatically turn on and off as needed to maintain optimum internal temperature. The LATITUDE Programming System is capable of continuous operation and will not shut off automatically if unused for an extended period of time.

CAUTION: The LATITUDE Programming System is not waterproof or explosion-proof and cannot be sterilized. Do not use the Programmer in the presence of flammable gas mixtures including anesthetics, oxygen, or nitrous oxide.

CAUTION: The Model 6753 Lithium-ion battery contains highly flammable chemicals and should be handled with caution. Abuse of this battery can result in fire or explosion. Read the following prior to using this battery:

- Do not expose the battery to temperatures above 140°F (60°C)
- Do not puncture the battery as it can lead to a fire or explosion. If the battery housing is punctured, or otherwise visibly damaged, do not attempt to use it.
- Do not strike the battery or otherwise subject it to strong impacts
- Do not submerge the battery in any fluids.

- Only use the Model 3300 Programmer to charge the battery. Use of any other battery charger can permanently damage the battery or even cause a fire or explosion.

Storing the LATITUDE Programming System

- 1. Exit the current software application by pressing the End Session button.
- Press and release the power button \circlearrowleft to turn off the LATITUDE 2. Programming System.

NOTE: Before moving the LATITUDE Programming System, always exit the software application and press and release the power button ${\color{orange} extstyle 0}$ to turn off the LATITUDE Programming System, then unplug the power cord.

NOTE: If using battery power, press and release the power button \circlearrowleft to turn off the device.

- Unplug the power cord from the wall.
- Unplug all equipment cables from the side panels of the LATITUDE Programming System.

NOTE: See each accessory's product literature for transport and storage conditions. Ensure each accessory is maintained within the appropriate limits.

Long Term Storage of the LATITUDE Programming System

If the Programmer is to be stored for long periods (e.g. months), remove the battery to prevent it from discharging to a point where recharging would be required in order to use it again. See "Battery Status, Installation, Replacement, and Recycling" on page 48 for instructions on removing the battery.

Maintenance Check and Safety Measures

LATITUDE Programming System Maintenance Check

Prior to each use, you should perform a visual inspection and verify the following:

- Mechanical and functional integrity of the LATITUDE Programming System, cables, and accessories.
- Legibility and adherence of the LATITUDE Programming System labels.
- Perform "Startup" on page 26. The normal power-up process verifies that the LATITUDE Programming System has passed its internal checks and is ready for use.

The LATITUDE Programming System does not contain any user serviceable parts and it does not have a calibration requirement. Maintenance does not require any additional steps.

The LATITUDE Programming System contains only one user-accessible component, the Model 6753 replaceable Lithium-ion battery.

on Anvand replacement or repair of any internal components. See "Battery Recycling" on page 51 for additional details. The Programmer must be returned without the battery for

Safety Measurements

National regulations may require that the user, manufacturer, or manufacturer representative periodically perform and document safety tests of the device. If such testing is required in your country, follow the testing interval and extent of testing as regulated in your country. If you do not know the national regulations in your country, please contact your local Boston Scientific representative.

It is not necessary that technical and safety inspections be performed by Boston Scientific personnel. However, technical and safety inspections of the Programmer and its accessories must be performed by persons, who, based on their training, knowledge, and practical experience, are capable of adequately performing such inspections and who do not require instructions with regard to the technical and safety inspection.

If IEC/EN 62353 is a required standard in your country, but no specific testing or interval is specified, it is recommended that you perform safety testing using the direct method as specified in IEC/EN 62353 at an interval of every 24 months or as per local regulations. Refer to "Compromised Programmer" on page 69

Service

For questions regarding operation or repair of the LATITUDE Programming System, contact Boston Scientific using the information on the back cover of this manual. The LATITUDE Programming System must be serviced by Boston Scientific personnel only.

If the LATITUDE Programming System malfunctions and requires repair, help to ensure efficient service by following these guidelines:

- Leave the configuration of the instrument exactly as it was at the time of malfunction. Contact Boston Scientific using the information on the back cover of this manual.
- Write a detailed description of the malfunction(s).
- Save printouts or other materials that illustrate the problem, if possible.
- Be sure to save all PG data to a USB pen drive before returning a LATITUDE Programming System to Boston Scientific, as all patient and PG data will be erased from the LATITUDE Programming System when it is returned for service.
- If the LATITUDE Programming System must be returned to Boston 5. Scientific for service, remove the Lithium-ion battery from the Programmer, pack the device in the shipping container in which it was received or in a Vanhentunut versio. Ala käytä shipping container provided by Boston Scientific. Do not include the Lithium-ion battery when returning the Programmer to Boston Scientific Corporation.
- r. i. aldrad version. Använd For the shipping address, contact Boston Scientific using the information 6. on the back cover of this manual.

TROUBLESHOOTING

If the LATITUDE Programming System does not operate properly, check that electrical cords and cables are securely connected and that cords and cables are in good working order (i.e., free of visible defects). Possible causes and corrective actions for problems listed below.

Table 3. Possible Causes and Corrective Actions for LATITUDE Programming System Problems ,40

Symptom	Possible Cause	Corrective Action
Telemetry: poor, ntermittent, or no communication	Incorrect application software or incorrect LATITUDE Programming System for PG	Install proper application software for PG in use. Use correct LATITUDE Programming System for the PG being interrogated.
Telemetry: poor intermittent, or no communication	Incorrect telemetry want	Contact Boston Scientific using the information on the back cover of this manual to confirm PG and Model 3300 Programmer compatibility.
astaliela la l	Incorrect telemetry wand	Use only the Model 6395 Telemetry Wand for transvenous PGs
Nobelill Actilion	Programmer	Disconnect and reconnect the Telemetry Wand to the Programmer.
" " " A G O O O O O O O O O O O O O O O O O O	ersil der sin	Use only the Model 6395 Telemetry Wand for transvenous PGs.
The Pious One	battery power only	Connect the Programmer to AC power to improve telemetry performance.
MONG WAYS	from equipment	Reposition the LATITUDE Programming System. Also see Noise problems: ECG.
Pase Vil	communication with Model 6395 Telemetry Wand	Reposition the Model 6395 Telemetry Wand over the PG; repeat interrogation.
	Nersia observ	Flip the wand over. Disconnect and reconnect the wand. Turn off the Programmer, and then
	Jerstaran Lastare Lastare	Programmer, and then Entire Line 19 19 19 19 19 19 19 19 19 19 19 19 19
	133/1/	id tunus ersionsi Lentunus ersionsi Kaldrad Junayan 55

Table 3. Possible Causes and Corrective Actions for LATITUDE Programming System Problems (continued)

Symptom	Possible Cause	Corrective Action
ansho,	05.	turn it On. Repeat interrogation.
a He CE N3 HOWEN	den.	Use another Model 3300 Programmer or Model 6395 Telemetry Wand. Repeat interrogation.
areionny por	Utas onor	If this does not correct the issue, contact Boston Scientific using the information on the back cover of this manual.
a He Ce at. I venter a He Ce at. A la	Telemetry RF signal obstructed	Assure that a clear line-of- sight path exists between the LATITUDE Programming System and PG. Repeat interrogation.
ted version, No	Telemetry RF signal interference	Reposition LATITUDE Programming System. Unplug USB devices. Repeat interrogation.
		Reposition the Model 6395 Telemetry Wand over the transvenous PG and repeat interrogation.
leistaile data	Solesila. Menasi	For transvenous PG programming, the Model 3203 S-ICD Telemetry wand may be used as an additional antenna.
Nersion, or	LATITUDE Programming System software version not current	Contact Boston Scientific using the information on the back cover of this manual.
Noise problems: ECG	Improper patient connections	Recheck patient leads for adequate skin contact and correct limb lead placement. Confirm Right Leg Drive is connected. Consult ECG textbooks for additional ECG techniques.
	Excessive radio emissions from equipment	additional ECG techniques. Check surrounding area for electrical equipment that is powered on and not
56	Excessive radio emissions from equipment	Check surrounding area for electrical equipment that is powered on and not

Table 3. Possible Causes and Corrective Actions for LATITUDE Programming System Problems (continued)

Symptom	Possible Cause	Corrective Action	
Maikke anvende	50.	needed. Move unneeded equipment away from patient and/or LATITUDE Programming System, or turn off unneeded equipment.	
Maikke a wer	siholioier,	Route ECG cable away from potential noise sources such as other equipment and associated cabling to include AC cords.	
ognision Mong	Pasutiliser tebli	Ground Programmer to the conductive patient bed (when applicable) using a USB grounding cable. Intertwine excess ECG lead lengths when possible. Consult ECG textbooks for additional ECG techniques.	el.
Telemetry: interference	Harmful interference	Check for building outlet ground resistance less than 10 Ω , when measured with low impedance techniques, between the outlets and from the outlets to other grounded points in the room (e.g., room bonding point, cold-water pipe, exam table, etc.).	2
Telemetry: interference	Harmful interference caused by the LATITUDE Programming System or the system is negatively impacted by other RF	devices. Increase the separation distance between the	a.
Passarili Elavi	solitili rizete let	Connect the equipment to an outlet on a different circuit or use as battery powered.	tish.
	Nersao meen	Contact Boston Scientific using the information on the back cover of this manual.	inu.
	Lastare Lastare	Contact Boston Scientific using the information on the back cover of this manual.	, ·
	70	Kg, Celo	

Table 3. Possible Causes and Corrective Actions for LATITUDE Programming System Problems (continued)

Symptom	Possible Cause	Corrective Action	
Missing shock markers during the delivery of a shock	Noise during shock delivery may prevent the shock marker from being received at the maximum telemetry distance of 6 cm (2.35 in)	Review surface ECG for confirmation of delivered shock, if available. Review PG's Arrhythmia Logbook for confirmation of delivered shock.	
Displayed clock does not consistently keep time after setting	Low internal clock battery	The internal clock battery is not field replaceable. Return the LATITUDE Programming System to Boston Scientific for replacement of the internal clock battery.	
Unable to print to a USB- attached printer	Not connected properly	Check the USB cable connections between the printer and the Programmer.	
200, 6kg, 48. Mg	No power	Check the printer's power connection.	20
Touchscreen does not	Printer not recognized	Re-connect the printer to the USB port, then wait 30 seconds for the system to recognize the printer before sending files to the printer.	Jilke.
Touchscreen does not respond or goes blank	Selecting inactive buttons on the touchscreen	Select active buttons.	Mgc.
Laster little of Uversione of	Touchscreen not functioning	Turn off the LATITUDE Programming System, and then turn it on.	
Version Coi	1); cell leter	Do not touch the screen while the Programmer is powering up, as this may cause the area that you touched to become unresponsive when pressed later on.	Jat.
	Jidatert Jersterr Jidatert Prizeterr Jidatersia Prizeterr	If this does not correct the issue, contact Boston Scientific using the information on the back cover of this manual.	Ylako
50	Versia objective	If this does not correct the issue, contact Boston Scientific using the information on the back cover of this manual.	sirir
58	19	Ungly (Sollway)	

Table 3. Possible Causes and Corrective Actions for LATITUDE Programming System Problems (continued)

	17:11	,	
	Symptom	Possible Cause	Corrective Action
	LATITUDE Programming System not responding	LATITUDE Programming System not functioning	Turn off the LATITUDE Programming System, and then turn it On.
NA DS	onthat whelp	ade Holelte.	If this does not correct the issue, contact Boston Scientific using the information on the back cover of this manual.
ile. Ne	External monitor not displaying properly	Cable/adapter connection to DisplayPort	Remove and re-insert cable/adapter into DisplayPort to resynchronize the video signal.
1, 6/4,	:001,11,00	131:50 , col	
ilo 18	HANDLING	ill. Afili, 160r	
1, 92	The emissions characteristics of this equipment make it suitable for use in		

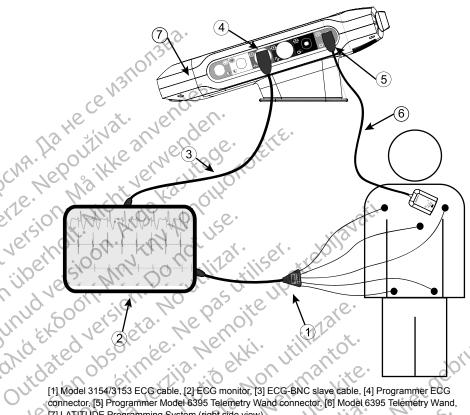
HANDLING
The emise Use the follow: The emissions characteristics of this equipment make it suitable for use in

Using an External ECG Monitor with the Model 3300 Programmer

Use the following accessories to set up the configuration described in this section: Mersia bilefeliuinonana. Me lighwat.

- Model 3154 Fixed Patient Leads ECG cable 13
- Model 6629 ECG-BNC Slave Cable
- Jidatert versjon. Skalikke brukes. Model 6395 Telemetry Wand for transvenous PGs

For Canada and China only, use the Model 3153 ECG cable.



[1] Model 3154/3153 ECG cable, [2] ECG monitor, [3] ECG-BNC slave cable, [4] Programmer ECG connector, [5] Programmer Model 6395 Telemetry Wand connector, [6] Model 6395 Telemetry Wand, [7] LATITUDE Programming System (right side view)

Figure 32. External ECG Monitor Configuration

To display a tracing on an external ECG monitor and the Programmer, set up equipment as shown in Figure 32 External ECG Monitor Configuration on page

In the example in Figure 32 External ECG Monitor Configuration on page 60, the surface ECG signal travels the following route for a patient with a transvenous pulse generator. For Canada and China only, use the Model 3153 ECG cable.

- 1.
- 2.
- 3.
- 4.
- 5.

- Model 6395 Telemetry Wand for transvenous PG programming 6.
- 7. Model 3300 Programmer

Environmental Protection and Disposal

Return the LATITUDE Programming System and accessories to Boston Scientific at the end of their useful lives for appropriate disposal.

Be sure to save all PG data to a USB pen drive before returning a LATITUDE Programming System to Boston Scientific, because all patient and PG data will be erased from the LATITUDE Programming System when it is received by Boston Scientific.

NOTE: The Programmer must be returned without the battery. See "Battery Recycling" on page 51 for additional details.

WARNING:



The Model 6753 Battery is a Lithium-ion battery and, as such, is deemed a Dangerous Good in regards to shipping. Do not return the Model 6753 battery to Boston Scientific. Dispose of the battery as required by local regulations. If the battery must be shipped, contact your local shipper for instructions and shipping requirements.

Symbols on Devices and Packaging

The following symbols may be present on LATITUDE Programming System devices, packaging, and labeling.

Table 4. Symbols on Devices and Packaging

Symbol	Description
REF	Reference number
SNO	Serial number
LOT	Lot number
A/N Je	Assembly number
aser .	Manufacturer C
EC REP	Authorized Representative in the European Community
\sim	Date of manufacture
$((\bullet))$	Non-ionizing electromagnetic radiation; ZIP telemetry indicator light
	Indicator light. Versatarana azinten tunut version, siiriim. 1285tarana laran version, siiriim. 1285tarana laran version, siiriim.

Table 4. Symbols on Devices and Packaging (continued)

Symbol	Description	
STERILE EO	Sterilized using ethylene oxide	
	Consult instructions for use	
all Cany	Follow-instructions for use	
sign Wic.	Follow instructions for use; see www.bostonscientific-elabeling.com	
So the state of th	Abultak ilisek otkeplianati.	
COLOPINAL COLOR	Australia — RCM symbol Compliance with the Australian Communications and Media Authority's (ACMA) regulatory arrangements for telecommunications, radio, EMC and electromagnetic energy (EME)	ilken.
R-NZ	New Zealand — RF Compliance Mark	
RRT	Japan — Giteki mark	Mac.
13.22	Alternating current	
Drsive	The power button on the left side of the Programmer, which is represented by the Standby symbol	1123.
•	OSB 2.0/ET JETO COMO JITT SE J	Jat. ite
3.0←	HSB 3.0 CEL YELL SELL TO PLOSTILL	Malo.
DP++	DisplayPort C	Right
용	Local Area Network (LAN) Port	Yig ind
o 5	Model 3203 S-ICD Telemetry Wand	YUAG.
62	Local Area Network (LAN) Port Model 3203 S-ICD Telemetry Wand	siru

Table 4. Symbols on Devices and Packaging (continued)

Symbol	80.	Description
	Kolls	Model 6395 Telemetry Wand
Q Q	9 000	PSA LV
	Bunner	PSÁ RA, RV
Noil	PFLOS	Defibrillation-proof type CF applied part
17. 11.	12 1 18	Defibrillation-proof type BF applied part
sioonn	200	ECG cable connector
0011:1	F. 40	Future connection
	us le C	Mark for nationally recognized testing for safety standards
0100		Red STAT button on Programmer provides commands for low voltage and high voltage rescue
SION	7 [89.	Warning, electricity – Do not touch the connector terminals in the Programmer battery compartment while removing or replacing the battery as an electrical charge is present
135 (e)X	7000	ISO 7010-W001 general warning symbol for ECG connector on the Programmer
19	2,100	Indicates the risk of electric shock; (do not touch contacts inside battery compartment); refer servicing to Boston Scientific
	16 o. 1	Waste, Electrical, and Electronic Equipment (WEEE); indicates separate collection for electrical and electronic equipment (i.e., do not throw this device in the trash)
1	1	This side up proposed in the result of the side up
•	-	Fragile, handle with care
		ridicates separate contention to receive and electronic equipment (i.e., do not throw this device in the trash) This side up Fragile, handle with care
		Tastanent ad Junaya 63
		10 glocalo.

Table 4. Symbols on Devices and Packaging (continued)

Symbol	Description
······································	Keep dry
7/3//	, e5·
	Do not use hooks
OH ON	10 ge. 15.
560/3/X 16	Temperature limitation
	Humidity limitation
	Atmospheric pressure limitation
le Que ou	Recycle box
- A Breit	MR Unsafe
	Battery indicator symbol
lersio Dela	Bluetooth®
\bigcirc \bigcirc \bigcirc	DC power connection

SAFETY, COMPLIANCE, AND COMPATIBILIT The LATITUDE Programming System has been tested and found to comply with applicable safety portions of the following standards: IEC 60601-1:2005/A1:2012 IEC 80001-1:2010 ANSI/AAAA

Janhentunut Versio. Ala kayte Trivaldrad Version. Använd

- ANSI/AAMI ES60601-1:2005(R)2012

- EN 60601-1:2006 + A1:2013
- CAN/CSA-C22 No. 60601-1:2014
- EN 62479:2010
- EN 62311:2008

Electromagnetic Compatibility Standards

The LATITUDE Programming System has been tested and found to comply with the applicable portions of the FCC and IEC electromagnetic compatibility (EMC) standards:

- FCC Part 15:209:2016 + 15:207:2016 + 15:249:2016
- IEC 60601-1-2:2014
- ETSI EN 301 489-1 V2.1.1:2017
- ETSI EN 301 489-3 V2.1.1:2017
- ETSI EN 301 489-17 V3.1.1:2017
- ETSI EN 301 489-27 V2.1.1:2017
- ETSI EN 301 489-31 V2.1.1:2016

Radio Spectrum Compliance Standards

The LATITUDE Programming System complies with the applicable portions of the following radio spectrum compliance standards:

- ETSI EN 302 195 V2.1.1:2016
- ETSI EN 300 220-1 V3.1.1:2016
- ETSI EN 300 220-2 V3.1.1:2016
- ETSI EN 300 328 V2.1.1;2016
- ETSI EN 301 839 V2.1.1:2016
- ETSI EN 301 893 V2.1.1:2017

NOTE: Use special precautions regarding EMC during the installation and the use of the LATITUDE Programming System, according to the EMC instructions given throughout this manual. Refer to the details about the LATITUDE Programming System electromagnetic emissions and immunity in Table 6 LATITUDE Programming System Nominal Specifications on page 70 and Table 7 Radio Nominal Specifications on page 72.

NOTE: Use caution when using RF portable and mobile telephony equipment in close proximity to the LATITUDE Programming System. Refer to the details about the LATITUDE Programming System electromagnetic immunity in Table 8 Network and Connectivity Specifications on page 73.

This equipment has been tested and found to comply with the applicable limits for Class A medical devices in a professional healthcare facility environment. viro. a almayar

ANSI/AAMI/IEC 60601-1-2:2014 for BS EN 60601-1-2:2015 or Active Implantable Medical Device Directive 90/385/EEC1. This testing shows the device provides reasonable protection against harmful interference in a typical medical installation. However, there is no guarantee that interference will not occur in a particular installation.

Industry Canada (IC)

This device complies with the applicable Radio Standards Specifications (RSS). Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation of the device.

CAUTION: No modification of this equipment is allowed unless approved by Boston Scientific. Changes or modifications not expressly approved by Boston Scientific could void the user's authority to operate the equipment.

This device may not interfere with stations operating in the 400.150–406.000 MHz band in the meteorological aids, meteorological-satellite, and earth exploration-satellite services, and must accept any interference received, including interference that may cause undesired operation.

The electromagnetic emissions and immunity information is provided in Table 5 Guidance and Manufacturer's Declaration—Electromagnetic Compatibility on page 66.2

Table 5. Guidance and Manufacturer's Declaration—Electromagnetic Compatibility

The LATITUDE Programming System, Model 3300, is suitable for use in professional health care facility environments. The customer or the user of this system should assure that it is used in such an environment.

Test	Compliance	Electromagnetic environment—guidance	Mac
Protection of radio services and other equipment	CISPR 11 Group 1 Class A	The LATITUDE Programming System, Model 3300, uses RF energy only for its intended uses in communication with the implanted device or connectivity functions. Its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.	orabit.
Protection of the public mains network	CISPR 11 Class A IEC 61000-3-2 IEC 61000-3-3	The LATITUDE Programming System, Model 3300, is suitable for use in professional health care facility environments.	YUA JULY
66	125 tara 125 tara 120 tara	care facility environments.	sill

Table 5. Guidance and Manufacturer's Declaration—Electromagnetic Compatibility (continued)

The LATITUDE Programming System, Model 3300, is suitable for use in professional health care facility environments. The customer or the user of this system should assure that it is used in such an environment.

Electrostatic Discharge Radiated RF EM field	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, and ± 15 kV air 3 V/m from 80 MHz to 2.7 GHz 380 - 390 MHz: 27 V/m 430 - 470 MHz: 28 V/m	Electromagnetic environment—guidance
Radiated RF EM field	± 2 kV, ± 4 kV, ± 8 kV, and ± 15 kV air 3 V/m from 80 MHz to 2.7 GHz 380 - 390 MHz: 27 V/m 430 - 470 MHz: 28 V/m	o _A
Ma Min Mas	GHz 380 - 390 MHz: 27 V/m 430 - 470 MHz: 28 V/m	0 4
	430 - 470 MHz: 28 V/m	
Proximity fields from RF wireless communications equipment	704 - 787 MHz: 9 V/m 800 - 960 MHz: 28 V/m 1700 - 1900 MHz: 28 V/m 2400 - 2570 MHz: 28 V/m 5100 - 5800 MHz: 9 V/m	Aditi.
Rated power frequency magnetic field	30 A/m	Z•
Electrical fast transients/ bursts	±2 kV input AC power ±1 kV SIP/SOP	j., j
Surges line-to-line	± 0.5 kV, ± 1 kV input AC power	ite. "dep,
Surges line-to-ground	± 0.5 kV, ± 1 kV, ± 2 kV input AC power	131. Hieron
Conducted disturbances induced by RF fields	Sateria prizer let dateria prizer let Nersia prizer da Nersia prizer da	The ISM bands between 0.15 MHz and 80 MHz are 6.765 MHz to 6.795 MHz 13.553 MHz to 13.567 MHz 26.957 MHz to 27.283 MHz 40.66 MHz to 40.70 MHz. The amateur radio bands between 0.15 MHz and 80 MHz are 1.8 MHz to 2.0 MHz 3.5 MHz to 4.0 MHz 5.3 MHz to 5.4 MHz 7.0 MHz to 7.3 MHz to 10.1 MHz to 10.15 MHz 14.0 MHz to 10.15 MHz 14.0 MHz to 14.2 MHz 18.07 MHz to 18.17 MHz 21.0 MHz to 21.4 MHz 24.89 MHz to 24.99 MHz
	Lastare Lastare	21.0 MHz to 21.4 MHz 24.89 MHz to 24.99 MHz

Table 5. Guidance and Manufacturer's Declaration—Electromagnetic Compatibility (continued)

The LATITUDE Programming System, Model 3300, is suitable for use in professional health care facility environments. The customer or the user of this system should assure that it is used in such an environment.

Test	Compliance	Electromagnetic environment—guidance
SHOTINGE SUNE	der eite.	28.0 MHz to 29.7 MHz 50.0 MHz to 54.0 MHz.
Voltage dipsa	$0\%~U_{\rm T}$ for 0.5 cycle at $0^\circ,$ 45°, 90°, 135°, 180°, 225°, 270°, and 315°	
J. Hic Hos to	0% $U_{\rm T}$ for 1 cycle and 70% $U_{\rm T}$ for 25/30 cycles at 0°	· avatil·
Voltage interruptions ^a	0% U _T for 250/300 cycles	

Voltage dips and interruptions: U_{τ} is the AC mains voltage prior to application of the test level.

LATITUDE PROGRAMMING SYSTEM SECURITY

Sensible security practices are needed to protect patient data and the LATITUDE Programming System integrity when connected to a network. The Programmer incorporates features that facilitate management of network security. These features work in conjunction with the security practices of hospitals and clinics to provide safe and secure operation of the Programmer and protect the attached network.

NOTE: All patient data is encrypted on the Programmer internal hard drive, and the Programmer has network security safeguards in place to prevent malicious attacks.

Software

All installed software has been approved by Boston Scientific and general purpose software installation is not permitted. This minimizes the potential for vulnerabilities to be exposed. Internal software that runs the Programmer is locked from change and is re-verified upon each execution. Whenever Boston Scientific software updates are available, install them as soon as possible. Vanhentunut versio. Ala kayta Programmer settings should only be modified per guidance from verified Boston Scientific technical support or Health Care Delivery personnel.

Patient Data Management

r. i. aldrad version. Anvand Refer to the Patient Data Management Operator's Manual (Model 3931) for additional security information.

Network

Refer to the Network and Connectivity Operator's Manual (Model 3924) for additional networking and connectivity security information.

Unsupported Hardware

Unsupported hardware, including unsupported USB devices, is ignored by the Programmer and is not accessed.

Security Vigilance

threats and evaluate potential impact on the LATITUDE Programming System.

Maintain good physical controls over the Programmer. Having a secure physical environment prevents access to the internals of the Programmer devices connected to the Programmer should introduction of malure. physical environment prevents access to the internals of the Programmer. USB malware. Patient sensitive in the programmer and appropriate precaution programmer from unauthorized access.

Compromised Profile from the programmer from the programmer from the programmer from the programmer from the profile from the programmer devices connected to the Programmer should be controlled to limit potential introduction of malware. Patient sensitive information may be stored on the Programmer and appropriate precautions should be taken to secure the

If you believe that the Programmer has been compromised by a security threat, turn off the Programmer, disconnect it from the network, then restart the LATITUDE Programming System. Discontinue use of the Programmer if it fails ass er of the weight weight. the start-up self test or does not operate as expected. For further assistance, Movecojusi versija. Neil Pasenusi versija. Nenaudo Mersia przeterminowana. Wie liżywać. untact B manual. Jersjone obsoleta. Jito atert version. Skalikke brilkes. contact Boston Scientific using the information on the back cover of this Urelt Utgata. No Elavult verzió Ne használjal

Versão obsoleta. Não Utilize.

SPECIFICATIONS

Table 6. LATITUDE Programming System Nominal Specifications

Characteristic	Nominal	
Safety classification	LATITUDE Programming System: Class I.	
The Mat. Wenc	ECG connection: Type BF, defibrillation-protected	
3, 41/2 3/2 3/	Model 6395 Telemetry Wand connection:	
COOP. 18 STATE STATE	Type BF, defibrillation-protected Model 3203 S-ICD Telemetry Wand connection:	
Shorthay surer	Type BF, defibrillation-protected	
Shorty Actual Short Actual Shor	Connection port for future use: Type BF, defibrillation-protected	
11. 12 Blog 14	PSA cable connections:	
UO, OOK, 1 THE	Type CF, defibrillation-protected Ingress protection rating: IPX0	
Dimensions	Programmer without Stand:	
10. 10. 70	30.7 cm (12.1 in) deep, 34 cm (13.4 in) wide, 12.5 cm (4.9 in) high	
200 6/2/8 × 3. 1	With Stand (in handle up position): 24.9 cm (9.8 in) deep, 35:1 cm (13.8 in) wide,	·U.
9/10/6/6.	31.8 cm (12.5 in) high	ilke.
Weight (approximate)	Programmer (without battery or stand): 3.58 kg (7.9 lbs)	O *
ion ber lektri	Battery: 0.45 kg (1.0 lb)	
2,100,197,6	Stand: 1,28 kg (2.75 lb)	13C.
Model 6689 power adapter power rating	100-240 V, 50-60 Hz, 1.5 A	710
Maximum Output DC cord length	15 V @ 6 A, 90 W 1.53 m (5 ft)	
Dimensions	14.94 cm x 6.26 cm x 3.35 cm (5.88 in x 2.46 in x 1.32 in)	.13.
AC power cord (3 prong)	2.05 m (6.72 ft) 100–240 V	
Duty cycle	Continuous	12. xe
Operating temperature	10 °C to 32 °C (50 °F to 90 °F)	13/0/6
	15 16 18 10 10	001:47
Transport and storage temperature	-20 C 10 00 C (24 + 10 (40 +)	isto
Operating humidity	25% to 85% non-condensing	YIS HO
Transport and storage	25% to 85% non-condensing	7670
humidity	16, 1310, 1310, 131, 176, 10.	in in
	Je sta Kela The Skip is	501.
70	To sto ent due ayar	
- -	-20 °C to 60 °C (-4 °F to 140 °F) 25% to 85% non-condensing 25% to 85% non-condensing	
	70,010,10	

Table 6. LATITUDE Programming System Nominal Specifications (continued)

Characteristic	Nominal
Operating altitude	≤ 3,000 m (≤ 9,843 ft)
Transport and storage atmospheric pressure	50 kPa to 106 kPa (7.252 psi to 15.374 psi)
External support; pen drives, printer	(3) USB 2.0 ports; (1) USB 3.0 port
External digital monitor support	DisplayPort digital connector;
and the released	Monitor must comply with emissions standard CISPR 32.
Battery type	Lithium-ion, IEC62133:2012 and UN38.3 compliant
Ethernet: Data Interface	Data Interface RJ-45 Ethernet Connector
Data Modulation	IEEE 802.3u, 100 Mbps full duplex and half duplex on 100BASE-T
QU. 100. 40 11	IEEE 802.3ab, 1 Gbps full duplex and half duplex on 1000BASE-T
Wi-Fig 20 Ne	IEEE 802.11g, 802.11n, and 802.11ac 3.9 m to 4.3 m (12.7 ft to 14.0 ft)
ECG cable, Model 3154	3.9 m to 4.3 m (12.7 ft to 14.0 ft)
ECG cable, Model 3153 (for Canada and China only)	3.9 m to 4.3 m (12.7 ft to 14.0 ft)
ECG performance:	16, 15 14 3/19 3/18 1/182. M
Minimum amplitude detected	6.54 µV I, II, III, aVR, aVL, aVF, V 30 min ⁻¹ to 120 min ⁻¹ ± 4 min ⁻¹ on a three-beat average basis; 120 min ⁻¹ to 240 min ⁻¹ ± 8 min ⁻¹ on a three-beat
Lead selection	I, II, III, aVR, aVL, aVF, V
Intrinsic and paced ventricular rate display	30 min ⁻¹ to 120 min ⁻¹ ± 4 min ⁻¹ on a three-beat average basis; 120 min ⁻¹ to 240 min ⁻¹ ± 8 min ⁻¹ on a three-beat average basis
Input impedance	average basis ≥ 1.5 MΩ 300 mV 500 samples/sec, 6.54 μV ON: 0.5 Hz to 40 Hz, ± 10% or ± 0.1 Hz, whichever is greater
Electrode offset tolerance	300 mV
Storage resolution	500 samples/sec, 6.54 μV
Filter settings for storage resolution	ON: 0.5 Hz to 40 Hz, \pm 10% or \pm 0.1 Hz, whichever is greater OFF: 0.05 Hz to 100 Hz, \pm 20% or \pm 0.02 Hz, whichever is greater
Gain settings	0.5, 1, 2, 5, 10, 20 mm/mV ± 25%
	GFF: 0.05 Hz to 100 Hz, ± 20% or ± 0.02 Hz, whichever is greater 0.5, 1, 2, 5, 10, 20 mm/mV ± 25%
	13, 1910, 610,

Table 6. LATITUDE Programming System Nominal Specifications (continued)

Characteristic	Nominal
Electrical Safety Testing- Reference for testing according to the IEC 62353 (Installation, Maintenance, Repair) Earthbond testing (Groundbond testing)	≤ 300 mΩ including power cable not exceeding 3 meters
Equipment leakage, direct method (accessible parts)	≤ 500 µA
Patient leakage current, direct method	Model 6395 Telemetry Wand (BF) ≤ 5000 μA, ECG (BF) ≤ 5000 μA, PSA (CF) ≤50 μA
Safety Feature: Defibrillator protection	Up to 5000 V

a. For questions regarding operation or repair of the LATITUDE Programming System, contact Boston Scientific using the information on the back cover of this manual. The LATITUDE

Radio Nominal Specifications

Characteristic	Nominal	
ZIP MICS Telemetry (MICS/MedRadio)		
Frequency band Bandwidth Modulation Radiated power	402 – 405 MHz Medical Implant Communication Service (MICS) Medical Device Radio Communication Service (MedRadio) < 145 kHz FSK < 25 µW E.R.P.	
ZIP	SRD Telemetry (Short Range Devices)	
NOTE: This SRI	D Telemetry is NOT used in Australia and New Zealand	
Bandwidth Modulation Radiated power Receiver category	869.7 – 870.0 MHz Short Range Device radio band (SRD) <120 kHz ASK <1.2 mW E.R.P.	
ZIP SRD Telemetry (Short Range Devices)		
NOTE: This SRD Telemetry is used only in Australia and New Zealand		
Frequency	916.5 MHz els tardinality sion sirilly	
Frequency 916.5 MHz 13. 13. 13. 13. 13. 13. 13. 13. 13. 13.		

Programming System must be serviced by Boston Scientific personnel only.

After successfully completing safety testing, verify the LATITUDE Programming System continues to meet the essential performance as defined in the beginning of this manual.

Radio Nominal Specifications (continued)

Table 7. Radio Nominal Spe	cifications (continued)
Characteristic	Nominal
Bandwidth Modulation Radiated power	Short Range Device radio band (SRD) < 650 kHz ASK < 0.75 mW E.I.R.P.
Model	3395 Wand Telemetry (Inductive)
Frequency band Bandwidth Modulation Radiated power Receiver category	Transmit: 21 kHz Receive: 0 – 100 kHZ < 125 kHz OOK/QPSK 11.3 dBμA/m @ 10 m
1. 41. M. 16, 1	S Bluetooth®
Frequency band Bandwidth Modulation Radiated power Receiver category	2400.0 – 2483.5 MHz < 1.4 MHz GFSK, π/4-DQPSK, 8DPSK < 9.6 mW E.I.R.P. 2
00,01510,80,000	Wi-Fi 2.4 GHz
WIFECON	nectivity is not permitted in Indonesia.
Frequency band Bandwidth Modulation Radiated power	2400.0 = 2483.5 MHz 20/40 MHz (IEEE 802.11b/g/n < 80 mW E.I.R.P.
Wi-Fi con	Wi-Fi 5.0 GHz nectivity is not permitted in Indonesia
Frequency bands Bandwidth Modulation Radiated power	5150 – 5350 MHz 5470 – 6725 MHz 20/40/80 MHz IEEE 802.11a/n/ac < 50 mW E.I.R.P.

Table 8. Network and Connectivity Specifications

. manufacture Res	21 1/2 21 1/2 1/11	
Table 8. Network and Connectivity Specifications		
Characteristic 7	Specification	
Requ	uired Characteristics of IT Network	
Ethernet	IEEE 802.3u, 100 Mbps full duplex and half duplex on 100BASE-TX	
	IEEE 802.3ab, 1 Gbps full duplex and half duplex on 1000BASE-T	
Wi-Fi	IEEE 802.11g, 802.11n, and 802.11ac	
Loraldrad version sine 128 takentunut version sine 128 tak		

Table 8. Network and Connectivity Specifications (continued)

Characteristic	Specification	
Hazardous situations resulting from network failure	None	
Network and Security Configuration		
Ethernet	Dynamic or Static IP addressing	
Ethernet Required Connectivity:	itage notell	
Source Destination URL Protocol Name Transport Protocol Port Range Source Destination URL Protocol Name Transport Protocol Port Range	Model 3300 Programmer bostonscientific.axeda.com TLS TCP 443 (outbound) Model 3300 Programmer pool.ntp.org NTP UDP 123 (outbound)	
Wi-Fi Je Je Za	Dynamic IP addressing, using IEEE 802.11g, 802.11n, or 802.11ac specifications to connect to networks that are public/unsecured, WPA-PSK, or WPA2-PSK	
Ethernet MAC address	The network MAC address can be displayed and the host name is editable	
Internet protocol	IPV4 KA NO NO NIO	
Dynamic Host Configuration Protocol (DHCP) mode	Both manual and automatic DHCP modes are supported	
Wi-Fi MAC address	Displayable	

WARRANTY INFORMATION

A warranty card is packaged with the LATITUDE Programming System. Unless otherwise agreed, the LATITUDE Programming Co. Janhentunut versio. Ala kayta otherwise agreed, the LATITUDE Programming System remains the property of Boston Scientific and Boston Scientific must perform all necessary servicing Tribolidrad Version. Använd and repair work. For additional warranty information, contact Boston Scientific using the warranty information on the card.

SCNA. Take CENSTOUS Ba. version in a ikke anvendes. nijberholt. Nicht verwenden. Elstailela verzija. Nemojte upotrebljavati.
Lastarjela verzija. Lec. iv. demojte upotrebljavati. Outdated version. Do not use. Jersion Périmée. Ne pas utiliser. Version obsoleta. No utilizar. Jersione obsoleta. Non utilizzare. Idvill very verouder de versie. Niet gebruiken.
Dit is een verouder chair in in et gebruiken. Movecojusi versija. Neizmantot. Trelt tit data. Notio akki. Pasenusi versija. Nenaudokite. Elavult verzió. Ne haszhálial. Jidatert Versjon. Skalityke brukes. Jersinne expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verlia. Nepolitivat. Lastarela razlicica. Ne liporabite Janhentunut versio. Ala käytä

Vanhentunut versio. SCNA. Take CENSTOUS Ba. version in a ikke anvendes. nijberholt. Nicht verwenden. Elstailela verzija. Nemojte upotrebljavati.
Lastarjela verzija. Lec. iv. demojte upotrebljavati. Outdated version. Do not use. Jersion Périmée. Ne pas utiliser. Version obsoleta. No utilizar. Jersione obsoleta. Non utilizzare. Idvill very verouder de versie. Niet gebruiken.
Dit is een verouder chair in in et gebruiken. Movecojusi versija. Neizmantot. Trelt tit data. Notio akki. Pasenusi versija. Nenaudokite. Elavult verzió. Ne haszhálial. Jidatert Versjon. Skalityke brukes. Jersinne expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verlia. Nepolitivat. Lastarela razlicica. Ne liporabite Janhentunut versio. Ala käytä

Vanhentunut versio. SCNA. Take CENSTOUS Ba. version in a ikke anvendes. nijberholt. Nicht verwenden. Elstailela verzija. Nemojte upotrebljavati.
Lastarjela verzija. Lec. iv. demojte upotrebljavati. Outdated version. Do not use. Jersion Périmée. Ne pas utiliser. Version obsoleta. No utilizar. Jersione obsoleta. Non utilizzare. Idvill very verouder de versie. Niet gebruiken.
Dit is een verouder chair in in et gebruiken. Movecojusi versija. Neizmantot. Trelt tit data. Notio akki. Pasenusi versija. Nenaudokite. Elavult verzió. Ne haszhálial. Jidatert Versjon. Skalityke brukes. Jersinne expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verlia. Nepolitivat. Lastarela razlicica. Ne liporabite Janhentunut versio. Ala käytä

Vanhentunut versio.

Boston



Boston Scientific Corporation 4100 Hamline Avenue North St. Paul, MN 55112-5798 USA

Cardiac Pacemakers Incorporated 4100 Hamline Avenue North St. Paul, MN 55112-5798 USA



OHOHOHOLEHTE.

ribert

unud

...stralia ...d 676 133 ...d00 836 666 ...www.bostonscientific.com 1.800.CARDIAC (227.3422) +1.651.582.4000 (2019 Boston Seir-right-Boston Scientific (Australia) Pty Ltd
PO Box 332
Botany NSW 145F #1.651.582.4000
© 2019 Boston Scientific Corporation or its affiliates.
All rights reserved.
359488-058 EN OUS 2020-03 Javin ver diverouder de Versie Niet gebruiken.

Pasenusi versija. Nenaudokite. Elavult verzió. Ne használia!

Wersia Przeterninowana. Nie Używać. Jidatert versjon. Skalikke brukes. Versiume expiration. Anuse utiliza. Versão obsoleta. Não utilize. ičica. Ne uporabite Ji versio klia kavia



