

SUMMARY

The Model 3120 ZOOM[®] LATITUDE[®] Programmer Recorder Monitor (PRM) has several options to print reports / data from the implanted pulse generator (PG). Data and reports can be printed via the internal printer/recorder, via a compatible external printer that is supported by the pulse generator software application or via the Patient Data Management Utility.

Printing externally provides the clinician with a conventional-sized medical record and/or a formatted Portable Document Format (PDF) Report.

Products Referenced

Model 3120 ZOOM[®] LATITUDE[®] Programmer Recorder Monitor (PRM), ICDs, CRT-Ds, CRT-Ps and Pacemakers in Appendix A

Products referenced herein may not be approved in all geographies. For comprehensive information on device operation and indications for use, reference the appropriate product labeling.

CRT-D: Cardiac Resynchronization Therapy Defibrillator
CRT-P: Cardiac Resynchronization Therapy Pacemaker
ICD: Implantable Cardioverter Defibrillator

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Print Guide for the ZOOM[®] LATITUDE[®] Programmer

Printing Reports to an Internal or External Printer via the PG Software Application

The ZOOM LATITUDE PRM's internal printer/recorder, or an external printer, can be used to print reports via the pulse generator (PG) software application. However, the instructions to print vary by application; desired reports can be selected by following the specific PG software application menus, or by referring to the appropriate product labeling/system guide.

An example of how to print reports from the VITALITY[®] software application, via the internal or an external printer is as follows: From the **PRM Startup** screen, Select PG > Select VITALITY/VITALITY 2 > Select Interrogate or Read Disk > Select Print icon. On the **Choose Reports to Print** window, Select Internal (printer) or External (printer), Enter the number of copies, Select the reports you wish to print > Select the print button.

NOTE: If printing to an external printer, you will first need to connect a compatible external printer to the PRM via the parallel or USB port. Per Boston Scientific equivalency testing, an external printer with the following specifications is compatible with the ZOOM LATITUDE PRM:

- Manufactured by Hewlett-Packard (HP), Brother, or Samsung
- Print language is PCL5 compatible¹
- External connector is a parallel port connection or USB (Universal Serial Bus) port connection..

Printing via the internal printer produces reports formatted on a 110mm (4 inch) strip of thermal paper. Printing via an external printer produces reports that are formatted to fit a 110mm (4 inch) strip, but are printed on a conventional-sized paper.

Printing Portable Document Format (PDF) Reports to an External Printer via the Patient Data Management Utility

For those PG software applications that support the use of the Patient Data Management Utility, patient data can be saved to the programmer hard-drive and exported to a USB pen drive. PDF reports can then be printed to an external printer (see Appendix A).

To print reports via the Patient Data Management Utility, access the Patient Data Management button on the **PRM Startup** screen > Select the Print tab > Select the USB drive or programmer option to indicate the location from which you want to print > Select the patient records, reports, and quantity > Select the print button.

Printing via the Patient Data Management Utility produces PDF reports formatted and printed on conventional-sized paper. In addition, the PDF reports can be transferred from the USB pen drive as Electronic Medical Records (EMR).

Frequently Asked Questions

Is there a list of available printers that have been tested and verified as compatible with the ZOOM LATITUDE PRM?

Contact Hewlett-Packard (HP), Brother, or Samsung Customer Support. State that you need a printer with the following specifications: print language is PCL5 compatible, and connectivity is via parallel port or USB. If you require further assistance, contact Boston Scientific Technical Services.

What ports (Figure 1) on the side panel of the ZOOM LATITUDE PRM are used to connect an external printer?

Print Method	Connector-Type
External Printer via the PG Software Application	<ul style="list-style-type: none"> ▪ For PUNCTUA™, ENERGEN™, INCEPTA™, COGNIS®, and TELIGEN® software applications, a parallel port connection or USB port connection ▪ For other Boston Scientific device software applications (not listed in preceding bullet) that support external printing, a parallel port connection
External Printer via the PRM Patient Data Management Utility	Parallel port or USB port

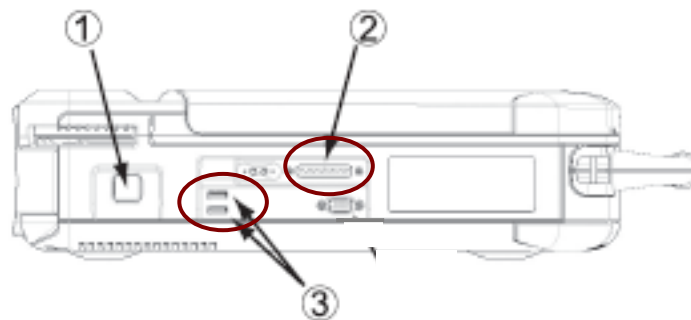


Figure 1. [1] On/Off button [2] Parallel port, External Printer Connector [3] USB ports.

Does the ZOOM LATITUDE PRM support color printing?

No. The ZOOM LATITUDE PRM does not support printing in color.

Can an external printer be used while the software application is in Demo Mode?

Yes. If the PG software application has the ability to print externally (Appendix A), it can print while in Demo Mode.

How do I print real-time or stored electrograms (EGMs)?

The internal printer may be used to print real-time EGMs. Real-time EGMs are printed by simply pressing one of the print speed buttons on the PRM. However, a segment (“snapshot”) of real-time EGMs can be printed by creating a snapshot report available in most PG software applications (unless otherwise noted in Appendix A). Stored EGMs can be printed to an internal or external printer.

Does printing to an external printer meet electrical safety standards?

Any external printer connected to the ZOOM LATITUDE programmer must meet IEC 60950-1 standards for commercial products (see printer manual) and must be kept out of the patient environment (i.e., 4.9 feet [1.5 meters] away from the patient) to meet electrical safety standards. Boston Scientific instructions for use add the following caution:

- **CAUTION:** *Although an external printer meets leakage-current requirements for commercial products, it may not meet the reduced leakage requirements for medical products (IEC 60601-1). Consequently, the external printer must be kept outside the patient environment (at least 4.9 feet [1.5 meters] away from the patient).*
- **NOTE:** *Equipment connected to the serial port and other external connections must comply with the respective IEC standards (e.g. IEC 60950-1 for data processing equipment and IEC 60601-1 for medical equipment).*

¹PCL5 compatible languages include PCL5, PCL5e, and PCL5c. “Each new version of the language includes commands not found in older versions as well as the older PCL commands. As a result, printers with more recent versions of PCL are backwards compatible with software that supports older versions of the language.” From: HP Color LaserJet and LaserJet Series Printers - History of Printer Command Language (PCL). Business Support Center Page. Hewlett Packard Web site. <http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?objectID=bp104568>. Accessed on June 3, 2011. To determine if a printer meets the above specifications, refer to the user manual provided with the printer, which should contain the printer language and connection type.

Appendix A. PG Family, PG Model, PG Supports Ability to Print Reports to an External Printer, PRM Supports Ability to Print PDF Reports to an External Printer

PG Family	PG Model	Print External via PG	PDF Reports
PACEMAKERS			
ALTRUA	S201 / S202 / S203 / S204 / S205 / S206 / S207 / S208 / S209 / S401 / S402 / S403 / S404 / S501 / S502 / S503 / S504 / S508 / S601 / S602 / S603 / S606	YES	YES
INSIGNIA / NEXUS Ultra SR, DR (downsize), DR	1190 / 1290 / 1291 / 1390 / 1490 / 1491	YES	YES
INSIGNIA / NEXUS Entra SR, DR (downsize), DR, SSI IS-1 Comp, SSI 5/6, DDD 5/6, DDD IS-1 Comp	0484 / 0485 / 0985 / 0986 / 1195 / 1198 / 1296 / 1294 / 1295 1325 / 1326 1395 1398 / 1425 / 1426 / 1466 / 1494 / 1495	YES	YES
INSIGNIA / NEXUS Plus SR, DR (downsize), DR	1194 / 1298 / 1297 / 1394 / 1467 / 1468	YES	YES
INSIGNIA / NEXUS AVT VDD, DDD, SSIRO, DDDRO	0482 / 0882 / 0982 / 1192 / 1292 / 1328 / 1392 / 1428 / 1432 / 1492	YES	YES
PULSAR MAX II SR (downsize), DR	1180 / 1280	YES	NO
DISCOVERY II / INTELIS II SR (downsize), SR, DR (downsize)	1184 / 1186 / 1187 / 1283 / 1284 / 1286 / 1349 / 1384 / 1386 / 1387 / 1483 1484 / 1486 / 1499	YES	NO
PULSAR MAX SR (downsize), DR	1170 / 1270	YES	NO
DISCOVERY / INTELIS SR (downsize), DR (downsize), DR, SSI, DDD	1174 / 1273 / 1274 / 1275 / 1374 / 1375 / 1473 / 1475 / 0481 / 0981	YES	NO
MERIDIAN DDD, SR, DR, SSICO IS-1 Comp	0976 / 1176 / 1276 / 0476	YES	NO
CARIAC RESYNCHRONIZATION THERAPY PACEMAKERS			
CONTAK RENEWAL TR	H120 / H125	YES	YES
CONTAK RENEWAL TR 2	H140 / H145	YES	YES
IMPLANTABLE CARDIOVERTER DEFIBRILLATORS			
PUNCTUA™ / ENERGEN™ / INCEPTA™ VR RF HE, DR RF HE*	F050 / F140 / F141 / F160 / F161 / F052 / F142 / F143 / F162 / F163	YES	NO
TELIGEN DR / VR*	E102 / F102 / E110 / F110	YES	NO
CONFIENT RF HE	E030 / F010 / F030	NO	YES
VITALITY 2 EL DR / VR	T167 / T177	YES	YES
VITALITY 2 DR / VR	T165 / T175	YES	YES
VITALITY DR HE	T180	NO	YES
VITALITY DS DR / VR	T125 / T135	YES	YES
VITALITY EL	T127	YES	YES
VITALITY VR / DR	1870 / 1871	YES	YES
VENTAK PRIZM 2 DR / VR	1861 / 1860	YES	YES
VENTAK PRIZM DR HE / VR HE	1853 / 1858 / 1852 / 1857	YES	YES
VENTAK PRIZM DR / VR	1851 / 1856 / 1850 / 1855	YES	YES
CARIAC RESYNCHRONIZATION THERAPY DEFIBRILLATORS			
PUNCTUA / ENERGEN / INCEPTA RF HE*	P052 / P142 / P143 / P162 / P163 / P165	YES	NO
COGNIS*	N118 / N119 / N106 / N107 / P106 / P107	YES	NO
LIVIAN RF	H220 / H225 / H240 / H245	NO	YES
LIVIAN RF HE	H227 / H229 / H247 / H249	NO	YES
CONTAK RENEWAL 4 RF / 4 RF HE	H230 / H235 / H239	NO	YES
CONTAK RENEWAL 4 AVT / 4 AVT HE	M170 / M175 / M177 / M179	NO	NO
CONTAK RENEWAL 4 / 4 HE	H190 / H195 / H197 / H199	NO	YES
CONTAK RENEWAL 3 RF / 3 RF HE	H210 / H215 / H217 / H219	NO	YES
CONTAK RENEWAL 3 / 3 HE	H170 / H173 / H175 / H177 / H179	NO	YES

*Not able to create a snapshot report to print real time EGMs.