A Closer Look

**SUMMARY**

The Model 3120 ZOOM® LATITUDE® Programmer Recorder Monitor includes a built-in printer to print reports/data from the implanted pulse generator (PG). However, it may be preferred to print reports on conventional-sized paper, which can be accomplished by using an external printer.

This article focuses on printing to a compatible optional external printer.

**Products Referenced**

Model 3120 ZOOM® LATITUDE® Programmer Recorder Monitor (PRM), ICDs, CRT-Ds, CRT-Ps and Pacemakers in Tables 1 and 2.

Products referenced herein may not be approved in all geographies. For comprehensive information on device operation, reference the full instructions for use found at www.bostonscientific.com/rhythm-resources/international-manuals.html.

CAUTION: Law restricts this device to sale by or on the order of a physician. Indications, contraindications, precautions and warnings can be found with product labeling.

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**External Printer Options for the ZOOM® LATITUDE® Programmer**

**Compatible External Printers**

Printers with the following specifications are compatible with the ZOOM LATITUDE programmer:

- Manufactured by Hewlett-Packard, Brother, or Samsung
- Uses a PCL5 compatible language (PCL5, PCL5e, and PCL5c)
- Uses a parallel port connector or USB port connector. **NOTE:** The required external connector type varies by pulse generator software application (Tables 1 and 2). Both connector types are required to be able to print externally to the entire list of BSC products referenced.

Printers with other specifications may be compatible; however BSC has not performed any additional compatibility testing.

**Printing via an External Printer**

To print via an external printer, the printer cable must be connected to the appropriate connector on the left side of the programmer (Figure 1) and the printer must be turned ON.

There are two options to print. Reports may be printed while actively interfacing with the patient’s device, referred to as a ‘patient/disk session’ or reports may be printed after the patient/disk session, through the Patient Data Management Utility.

While actively interfacing with the patient’s device, select Utilities/Print or the Print icon or Reports > select External printer > select desired reports > select Print. Table 1 shows the connector type required for each pulse generator family to print to an external printer from within a patient/disk session.

**Table 1. Print External by Connector Type - Patient/Disk Session**

<table>
<thead>
<tr>
<th>Family</th>
<th>Parallel Port</th>
<th>USB</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQUIO™, ADVANTIO™, INGENIO™, VITALIO™, FORMIO™, INVIVE™, INTUA™, INLIVEN™</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUNCTUA™, ENERGEN™, INCEPTA™, COGNIS®, TELIGEN®</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALTRUA®, INSIGNIA®, NEXUS®, CONTAK RENEWAL® TR / TR2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VITALITY®, VITALITY 2, VENTAK® PRIZM®, VENTAK PRIZM 2</td>
<td></td>
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<td></td>
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<tr>
<td>CONFIENT®, LIVIAN®, CONTAK RENEWAL (3/4/4AVT®), VITALITY® DR HE</td>
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</tr>
</tbody>
</table>

Alternatively, if data has been saved to the programmer hard drive or to a USB pen drive, printing to an external printer can be initiated from the Patient Data Management Utility (Figures 2/3). From the programmer startup screen, select the Patient Data Management Utility > Select the Print Tab > select patient records and desired reports > select Print. Table 2 shows the connector type required for each pulse generator family to print to an external printer from within the Patient Data Management Utility.

**Table 2. Print External by Connector Type - Patient Data Management Utility**

<table>
<thead>
<tr>
<th>Family</th>
<th>Parallel Port</th>
<th>USB</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQUIO, ADVANTIO, INGENIO, VITALIO, FORMIO, INVIVE, INTUA, INLIVEN, ALTRUA, INSIGNIA, NEXUS, CONTAK RENEWAL TR / TR2</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUNCTUA, ENERGEN, INCEPTA, COGNIS, TELIGEN, CONFIENT, LIVIAN, CONTAK RENEWAL 3/4, VITALITY DR HE, VITALITY, VITALITY 2, VENTAK PRIZM, VENTAK PRIZM 2</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PULSAR MAX®, PULSAR MAX II, DISCOVERY®, DISCOVERY II, MERIDIAN®, CONTAK RENEWAL 4AVT</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Frequently Asked Questions

Where do I connect the printer cable to the ZOOM LATITUDE programmer?
A parallel port and two USB ports are located on the left side of the programmer. Select a printer cable and corresponding port, depending on device family and print method chosen (see Figure 1 and Tables 1 / 2).

![Figure 1. Left side of Programmer [1] On/Off button [2] External Printer Connector (Parallel port) [3] Two USB ports](image)

Which printer models have been tested and verified as compatible with the ZOOM LATITUDE programmer?
Contact Hewlett-Packard, Brother, or Samsung Customer Support. State that you need a printer with a PCL5 compatible print language, and connectivity via parallel port or USB. **NOTE:** The required external connector type varies by pulse generator software application (Tables 1 and 2). Both connector types are required to be able to print externally to the entire list of BSC products referenced.

Where do I access the Patient Data Management Utility?
The Patient Data Management Utility can be accessed from the programmer Startup screen (Figure 2). Printing is accomplished by accessing the Print Tab (Figure 3).

![Figure 2. Programmer Startup Screen](image)

![Figure 3. Patient Data Management Utility Print Tab](image)

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 (Table 1 / 2), it will print demo data while in Demo Mode.
Frequently Asked Questions

Does printing to an external printer meet electrical safety standards?

Boston Scientific Instructions for Use include the following precaution regarding optional external equipment (e.g., printers):

**PRECAUTION:** Although any optional external equipment connected to the programmer meets leakage-current requirements for commercial products, it may not meet the more stringent leakage requirements for medical products. Consequently, the external printing equipment must be kept outside the patient environment (**at least 1.5 m [4.9 feet]** away from the patient). (Operator’s Manual ZOOM LATITUDE PRM 357435-094 EN).

Additionally, equipment connected to the external connections must comply with applicable standards (e.g., IEC/EN 60950-1 for data processing equipment and IEC/EN 60601-1 for medical equipment).

**WARNING:** The use of any cables or accessories with the programmer other than those specified by Boston Scientific in the Instructions for Use (IFU) may result in increased emissions or decreased immunity of the programmer. Anyone connecting such cables or accessories to the programmer 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.

If you require further assistance, contact Boston Scientific Technical Services.