Use of a USB Switch Box While Saving and Managing Patient Data on a USB Pen Drive

Patient and device data from the referenced Boston Scientific implantable devices can be downloaded from device memory and stored on a USB pen drive for future use or for transfer to an Electronic Records Management System. This process is detailed in the A Closer Look article “Saving and Managing Patient Data on a USB Pen Drive”.

Use of a USB Switch Box minimizes the need to plug and unplug the USB pen drive. A USB Switch Box (Figure 1) allows two or more computers, such as a Model 3120 ZOOM LATITUDE Programmer/Recorder/Monitor (PRM) and a clinic computer, to connect to a single pen drive at the same time. Pressing a button on the Switch Box allows the pen drive to simultaneously serve both associated computers, thereby reducing the need to connect and disconnect cables to facilitate transfer of data from one computer to another.

Compatible USB Switch Boxes

Several models of USB Switch Box are commercially available. They may also be referred to as a “share switch” or a “hub.” Testing of two randomly selected models resulted in successful data transfer. The models tested were:

- 4-PC-to-1 USB 2.0 Device ABCD Switch Box
- USB-3100 4 to 1 USB 2.0 Automatic Switch Box

Based on the compatibility analysis, USB Switch Boxes equivalent to those tested should be acceptable for use.

Setting Up the Connection

USB Switch Boxes normally have one Type- A connector for the USB pen drive and two or more Type-B connectors for the USB cables connecting the PRM and the clinic computer (Figure 1).

![Switch Box and Cables](image)

**Figure 1.** Type- A and Type-B USB connectors shown on a 4-port USB Switch Box and cables.

Figures 2 and 3 show how to connect the PRM, Switch Box and clinic computer:

1. Connect the Type-A end of a USB cable to the USB port on the left side of the 3120 ZOOM LATITUDE PRM
2. Connect the other end of the cable to one of the Type-B ports on the Switch Box
3. Connect the Type-A end of a USB cable to the USB port in the clinic computer
4. Connect the other end of the cable to one of the Type-B ports on the Switch Box
5. Insert a USB pen drive into the Type-A connector on the Switch Box

SUMMARY

The Boston Scientific Model 3120 Programmer/Recorder/Monitor (PRM) allows the user to save patient data to a USB pen drive for use in later sessions. Use of a USB Switch Box, detailed in this article, minimizes the need to plug and unplug the USB pen drive.

**Products Referenced**

- ZOOM™ Programming System
- PUNCTUA™, ENERGEN™, INCEPTA™, ADVANTIO®, INGENIO®, VITALIO®, FORMIO™, INVI™, INTUA™, ALTRUA™, DISCOVERY®, DISCOVERY® II, INSIGNIA® Entra, INSIGNIA® I Plus, INSIGNIA® AVT, INSIGNIA® Libra
- PULSAR MAX II, PULSAR MAX, PULSAR, MERIDIAN, VENTAK PRIZM®, VITALITY®, CONTAK RENEWAL®, CONTAK RENEWAL TR®, CONFIENT®, LIVIAN®, COGNIS®, and TELIGEN®

More information on these products can be found at: www.bostonscientific.com/products/resources/international/products.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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Figure 2. Two USB ports are located on the of the Model 3120 ZOOM® LATITUDE® Programmer/Recorder/Monitor.

Figure 3. The 3120 Programmer/Recorder/Monitor, USB Switch Box, and clinic computer are connected via USB cables (dotted lines). Data flow (colored arrows) is as follows: PRM through the Switch Box, to the USB pen drive (a); then, after the switch is toggled, from the USB pen drive, through the Switch Box, to the clinic computer (b). From this computer it is shared via the clinic’s Electronic Medical Records application (c).

**PRECAUTION:** Although any optional external equipment connected to the programmer may meet leakage-current requirements for commercial products, it may not meet the more stringent leakage requirements for medical products. Consequently, the external equipment must be kept outside the patient environment (at least 1.5 m [4.9 feet] away from the patient).

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.

**Transferring Patient Data Using a USB Switch Box**

To transfer data from the PRM to the clinic computer using the USB Switch Box (Figure 3):

1. Select the USB Switch Box channel for the PRM
2. Transfer data from the PRM to the USB pen drive. Follow instructions in PRM labeling and the *A Closer Look* article “Saving and Managing Patient Data on a USB Pen Drive”
3. After data has been transferred to the USB pen drive, switch the USB Switch Box channel to the clinic computer
4. Use the client Electronic Medical Records application on the clinic computer to access and/or import patient data from the USB pen drive (Figure 3b)
5. Remove the USB pen drive from the Switch Box and safely store
6. Review patient data within the clinic’s Electronic Medical Records application (Figure 3c)

If you require further assistance, please contact Boston Scientific Technical Services at the numbers listed on page 1.