



PR3 XTRA

PR3 Xtra Decoder Programmer USB Programmer/Interface

PR3 Xtra Features

- **Multifunction USB 2.0 PC connectivity for your railroad**
- **Digitrax SoundLoader™ compatible.** Programs Digitrax sound projects in to SFX decoders
- **Programs CVs for most DCC decoders**
- **LocoNet MS100 mode with Fully Buffered Input and Output data**
- **Runs on Windows XP, Vista, 2000, 7, and 8**
- **Runs on Mac OS with JMRI**
- **No external power needed for MS100 mode**
- **For Stand Alone Programming Mode the included external power supply is required**
- **Automatic configuration.** No jumpers or switches required. Configurations can be set by software or manually
- **Selectable LocoNet termination.** For standalone operation without a Command Station
- **LED status indicator lights**
- **Small, convenient package**
- **Firmware updates available from Digitrax Web site**
- **Meets FCC Class B requirements**

Parts List

1 PR3 Xtra Programmer	1 USB Cable
1 PS14 Power Supply	1 Instruction Sheet

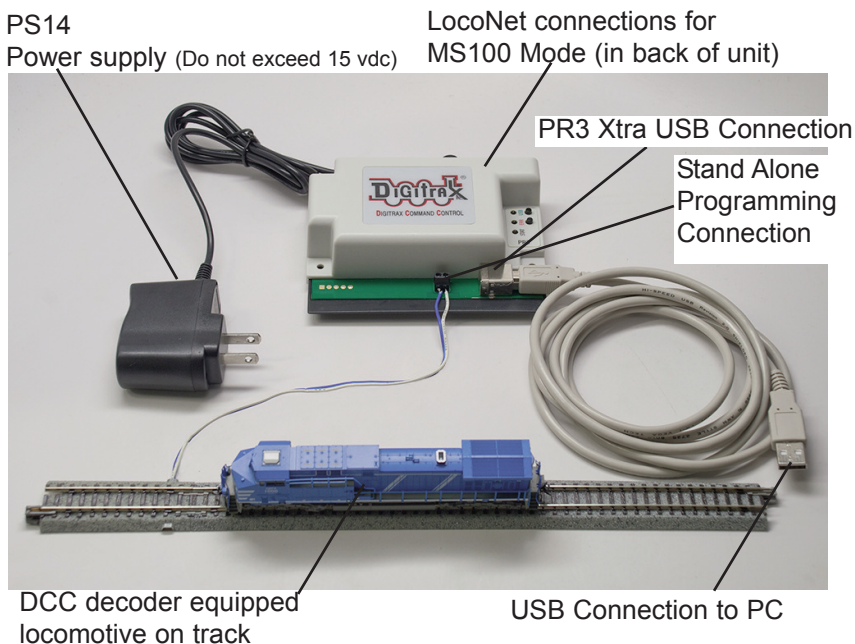
Using Digitrax SoundLoader™ software with your PC and the Digitrax PR3 Xtra Programmer you can create, manage, test, and download Digitrax sound projects (.spj) in your SoundFX decoders. You can select which sound files (.wav) you want to have associated with different sound sequences in any sound project and download the modified sound project to any Digitrax SoundFX decoder. This gives you the ability to customize your sound decoders any way you like!

PR3 Xtra Hardware Setup

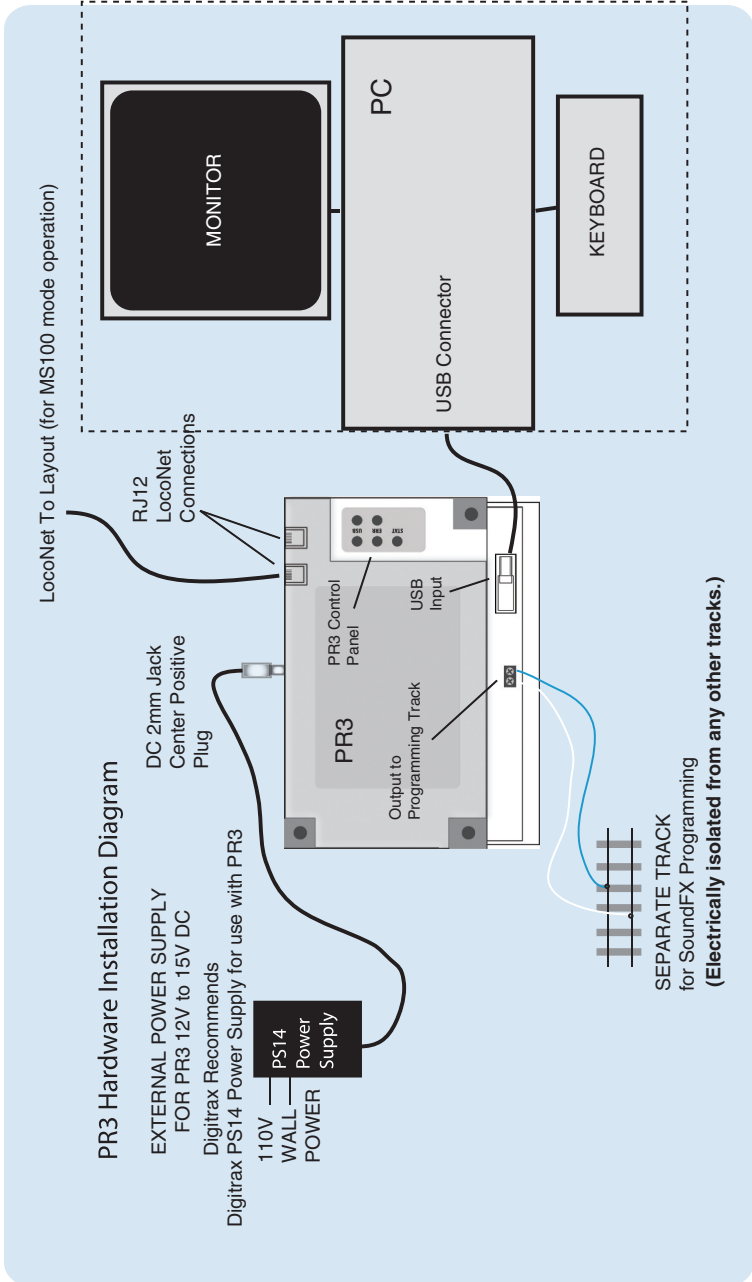
SoundLoader and PR3 Xtra have been tested to work on PC compatible computers running 550MHz and up, Windows XP, Vista, 2000, 7, and 8, 512MB of RAM.

Other combinations of hardware and software may also work, but are not supported by Digitrax, and have not been tested to operate properly.

Installation consists of three steps: (a) Hardware installation, (b) Software Driver installation, (c) Software setup. Below is a photograph of the actual hardware connections required for SoundFX programming:



The connection diagram on the following page will help you install the hardware correctly. Assemble the PR3 Xtra hardware as shown and connect to the Digitrax PS14. Input voltage to the PR3 Xtra should not exceed 15vdc otherwise damage to your sound decoder may occur. Note for MS100 mode, the PR3 Xtra must be connected to the Command Station with LocoNet. For Stand Alone programming, no LocoNet connection is required.





Driver Installations Instructions

Before the PR3 Xtra can be used, drivers for your specific Windows version must be installed. Drivers and Windows version specific instructions are available from the Digitrax website PR3 Xtra Product page:

<http://www.digitrax.com/PR3Xtra>

NOTE: Drivers must be installed for the PR3 Xtra to operate.

PR3 Xtra Switch Functions

The Mode Switch:

The Mode Switch next to the Green “USB” LED is used to toggle back and forth between MS100 mode and PR3 Xtra Programmer Mode. This Green LED will wink once per second in MS100 Mode or toggle every second in PR3 Xtra Stand Alone programming mode. If this LED is unlit there is no USB link established.

The LocoNet Termination Switch:

A LocoNet network always requires a termination of some sort, typically from the Command Station. The LocoNet Termination switch next to the “ERR” LED is designed to toggle the PR3 Xtra between a LocoNet terminated by a Digitrax Command Station and a stand alone LocoNet where separate termination is required. The PR3 Xtra has the ability to act as a LocoNet terminator. *Set this switch active ONLY when a Command Station is NOT connected to the LocoNet and the red LED is solid on indicating there is no Command Station connected.*

NOTE: Do not turn on the LocoNet termination mode AND connect to a command station at the same time.

To turn on the LocoNet termination mode, press and hold this switch for at least 2 seconds then release. The red “error” LED should go off indicating the LocoNet termination mode is working. If the Red LED is blinking, then the PR3 Xtra DC power in the rear 2.1mm jack is not connected or is too low.

To exit the LocoNet termination mode, press and hold this switch for 2 seconds and then release.

Factory Default Setting:

Pressing and holding both switches for 5 seconds or longer will reset the PR3 Xtra to its original factory settings (MS100 mode with LocoNet termination off) The “STAT” LED will toggle between red and green a few times to indicate that the default settings were taken.

Refer to the table on the follow page for an explanation of LED status indicator meanings.



CONDITION	GREEN USB LED
No Power to USB	Off
No USB Connection or USB error	Blink once per second mostly off
USB Connected in MS100 Mode	Wink once per second mostly on
USB Connected in MS100 Mode LocoNet termination mode	Wink twice per second mostly on
USB Connected in Sound Programmer Mode	Toggles ON-OFF once per second

CONDITION	RED ERR LED
LocoNet not connected or in sleep state (MS100)	Solid On
+12VDC Power not connected or too low (Programmer mode)	Fast Blink
No Errors	Off

CONDITION	RED/GRN STAT LED
MS100 Mode Data from PC to LocoNet	Red Blinks
MS100 Mode Data from LocoNet to PC	Green Blinks
MS100 Mode No Data activity	Off
Sound Programmer Mode (PR2 emulation)	Same status indications as for the PR2 status LED. See SoundLoader documentation/help file on the web-site: http://www.digitrax.com/PR3Xtra



Troubleshooting

The PR3 Xtra requires a driver for Windows. If the driver is not installed or not installed correctly the PR3 Xtra will fail to operate.

To verify proper installation of the drivers, go to the Windows Device Manager. Under Ports (COM & LPT) there should be a Communications Port (COMx) listed, where COMx is the communications port number or com port. Right clicking on the communications port and then clicking on Properties should show Digitrax, Inc. as the Manufacturer.

The COMx port number must be entered into the Soundloader, DigiIPL, DigiMon, and DigiGroupSetup programs for proper PR3 Xtra operation.

The USB cable should always be plugged into the same USB port on the computer to avoid having to change com port number in the programs. *Note: If the USB cable is plugged into a different USB port, the COM Port WILL change.*

Some other Troubleshooting steps to take:

When operating the PR3 in Stand Alone Programming Mode, make sure the PS14 is plugged in.

Try swapping the USB cable with another known good USB cable.

Reset the PR3 to Factory Default Setting.



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PR3 Xtra Decoder Programmer

USB Programmer for DCC Decoders

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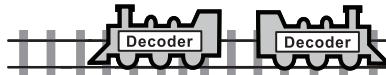
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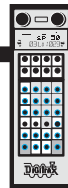
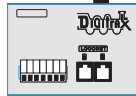
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Computer Interface
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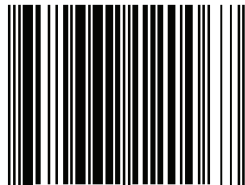
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