

iTrax® PC Replacement

Use this procedure to upload the current software onto a new iTrax® PC. To access the newest software, contact ICS Technical Support at ics.tech.support@nordson.com.



Follow the safety, operation, and maintenance instructions in the accompanying Operator Card and Product Manual.

Pre-Software Installation

1

Prepare to Install

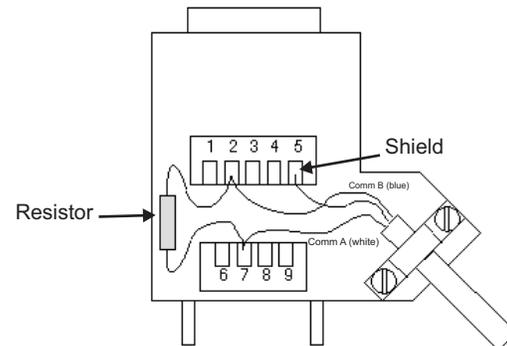
1. Be sure all power to the control unit containing all of the iTrax modules is OFF.
2. Install and wire the iTrax SM, SC, and PRx modules using the included instructions.



2

Install the Network Wiring

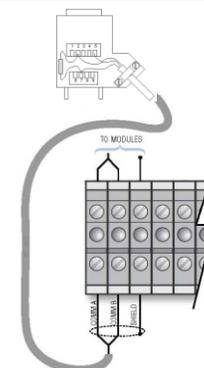
1. Install the network wiring and included terminating resistor into the DB-9 connector.
2. Assemble the connector halves.
3. Disconnect the Softing Network Interface from the USB until after the Softing Drivers are installed.



3

Connect the other end of the network wiring to the main terminal block in the control unit.

Refer to your system drawing for specific wiring instructions.



Installing Software onto iTrax PC

1

Locate Flash Drive

Locate flash drive or CD with the current software. If the original software cannot be found, contact your Nordson container specialist.

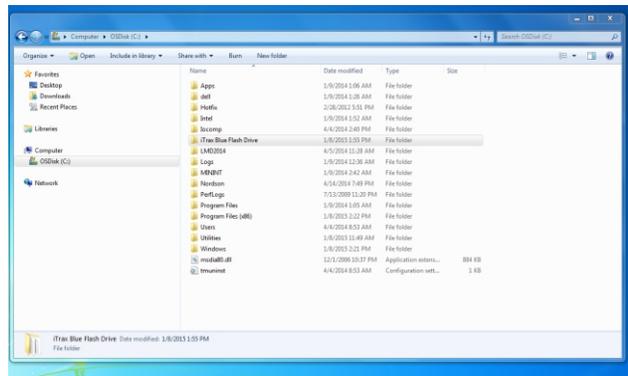


2

Copying Flash Drive Files

NOTE: Before installing iTrax firmware or software, copy the programs from the blue flash drive to the new iTrax PC. The flash drive contains all of the software needed to operate the iTrax system and modules.

Create a folder on the C:/drive of the iTrax PC. Name the folder “iTrax Blue Flash Drive.”



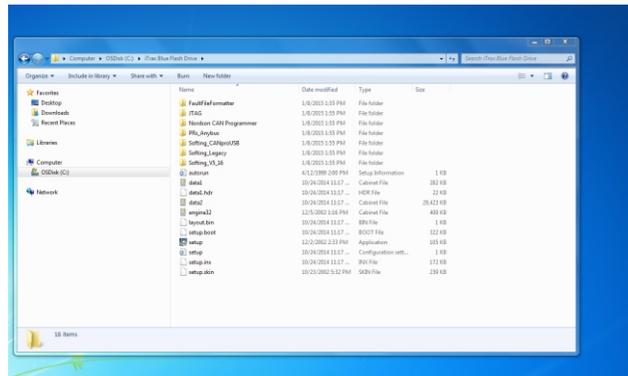
3

1. Plug the flash drive in the USB drive and navigate to its drive.

2. Copy all folders and files from the flash drive to the *iTrax Blue Flash Drive* folder.

3. Verify that the contents of the newly created folder match those from the flash drive.

4. Properly remove the blue iTrax USB flash drive and store in a safe place.



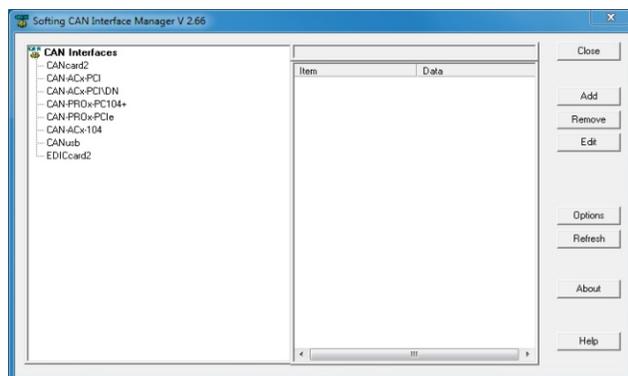
4

Install the Driver Software

Use Start>Run to browse for *CANSetup.exe* located at C:/iTraxBlueFlashDrive/softing_CANproUSB. Run the file.



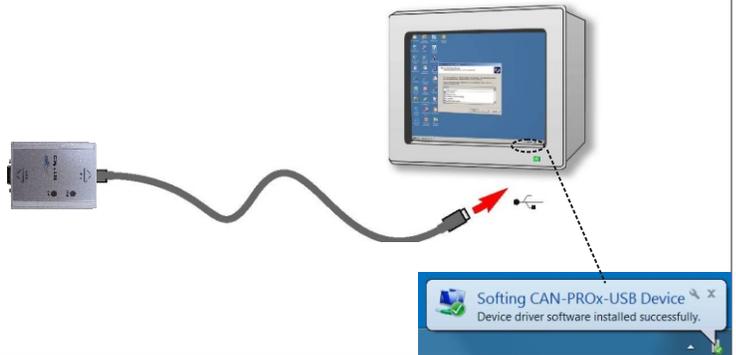
When the *Softing CAN Interface Manager* appears (as shown), select CLOSE.



5

Connect the Adapter

Connect the supplied USB cable between the computer and the USB-to-CAN adapter. Wait for Windows to display the notification that the CAN driver has been installed successfully.



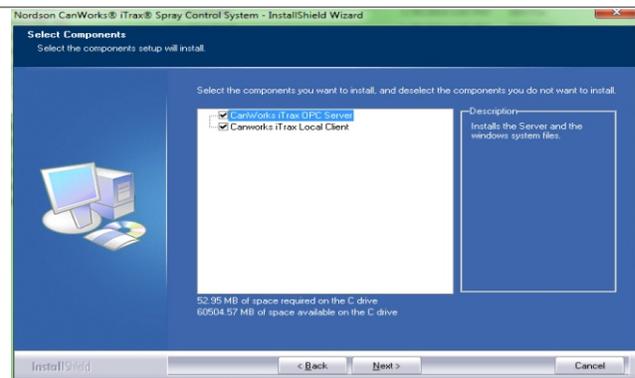
6

Install the iTrax Software

Run *setup.exe* located at C:\iTraxBlueFlashDrive.



Select both the *iTrax OPC Server* and *CanWorks iTrax Local Client* when prompted. Allow the iTrax installation to complete. When prompted, reboot the PC.



7

Connect iTRAX Modules

Connect the DB-9 connector to the USB-to-CAN adapter.



8

Turn power to the control unit ON.



9

Configure Hardware

1. Start the OPC Server  and then the OPC Local Client  using the shortcuts on the Windows desktop.
2. Select *Display Help* from the main toolbar to obtain assistance in configuring the iTrax system.

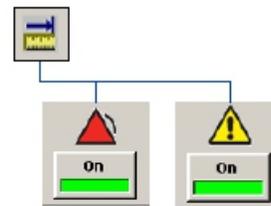
NOTE: Refer to the Setup Procedure topic under OI and Gun Setup to add guns and set up the Operator Interface.



10

Calibrate Spray Monitors

When the coating system is producing acceptable product, calibrate the spray monitors and enable faults as needed.



Reprogramming iTrax Spray Monitor Modules

1

Before Performing Procedure

Verify *Nordson CAN Programmer* application is loaded on the iTrax PC.

Plan for a halt in production. The iTrax modules cannot be reprogrammed while they are running in production. Reprogramming iTrax modules should take no more than a few minutes.



2

Shutting Down iTrax Operator Interface

Before starting the CAN Programmer, close the *CanWorks iTrax Operator Interface*.

NOTE: The *CanWorks iTrax Operator Interface* may take several seconds to close.



3

Shutting Down the iTrax Server

1. Once the operator interface is closed, close the *CanWorks OPC Server*.
2. Verify that there are no active iTrax application icons on the taskbar.



4

Programming the Module

1. If the iTrax modules are OFF, power the modules ON. If the iTrax modules are ON, cycle the power OFF and back ON.

2. Select the *Nordson CAN Programmer* icon on the iTrax PC Desktop to open the *CAN Programmer* main screen.

3. Select *iTrax Monitor* from the list box (6). Once selected, the module address listing (7) will show all of the iTrax monitors in the system. The list displays each module's current software version and serial number.

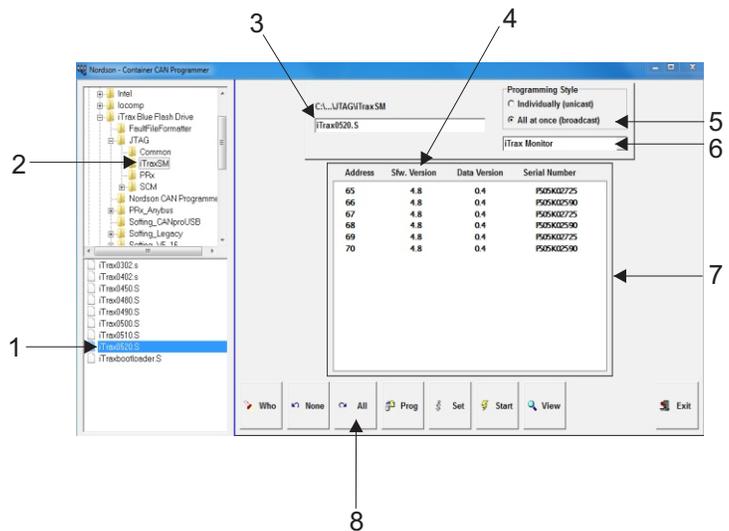
4. Navigate to *C:/JTAG/iTraxSM (2)* folder.

5. Select the S-record file *iTrax0520.S (1)* and the file name appears in the location field (3).

6. Select the modules to be updated in the module address listing (7).

NOTE: If selecting all modules, select *All (8)* to quickly select all in the list.

7. Select *All at Once (5)* to allow all selected modules to update



5

Programming the Module (contd)

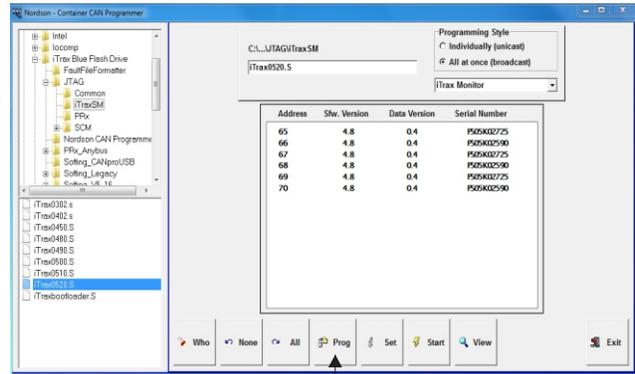
8. Select *Prog* (9) at the bottom of the screen. Reprogramming the module should take about 1 minute. The progress bar will display indicating progress.

9. After programming is complete, select OK and exit the programmer.

10. Cycle 24 VDC power to all of the iTrax Modules. Cycling ensures that all iTrax modules are re-booted and running the new code.

11. Restart the *iTrax Operator Interface* and the *iTrax OPC Server* application on the PC.

12. The information screen on the iTrax operator interface can be used to verify that the reprogrammed module now has the correct software version.



9

Minimum System Requirements

Type IBM-compatible personal or industrial computer
 Operating System. Windows 7 or XP with the most current Service Pack
 Processor Pentium 4, 2.2 Ghz (recommended) Pentium III, 850 MHZ (minimum: for up to 10 spray monitors)
 RAM 512 MB (minimum)
 Video SVGA, 2 MB (minimum), 1024 X 768, 16-bit color

Hard Drive Space 10 MB for program software
 10 GB for data storage
 Removable Media CD-ROM drive
 Ports USB (v. 1.0 or 2.0), Ethernet
 Input Device Touch screen or keyboard and mouse
 CAN Adapter One free USB port (v. 1.0 or 2.0)

www.nordson.com 800.626.8303
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