Method Manager

For Pump 11 Elite series syringe pumps

User's Manual
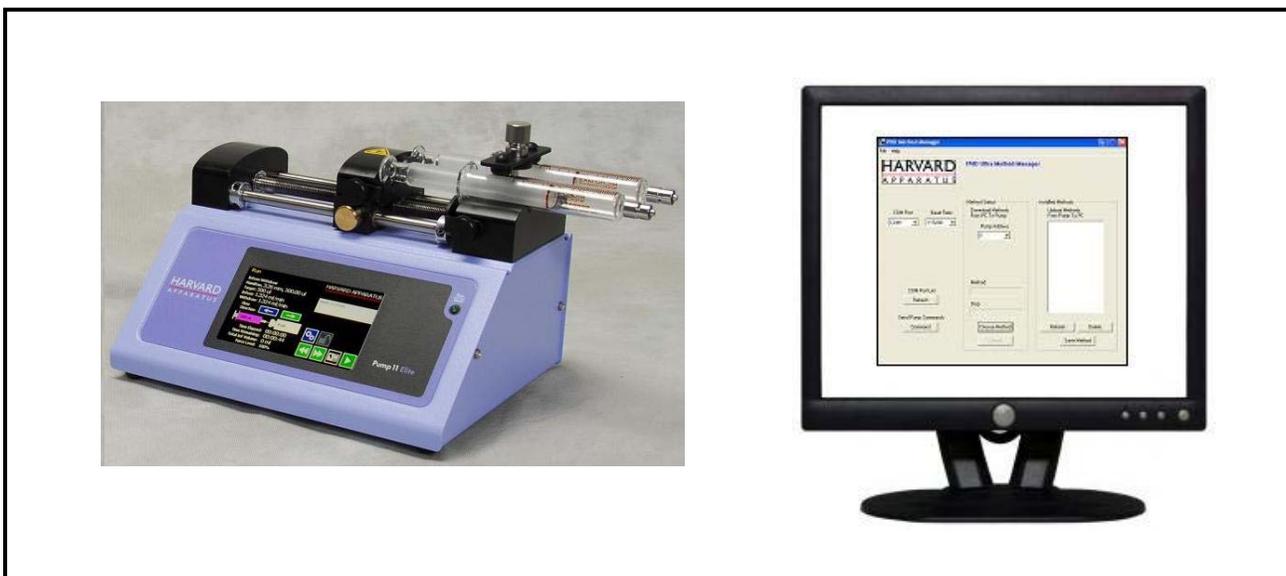
HARVARD
APPARATUS

Installation

Insert Pump 11 Elite CD ROM. A file containing the CD's contents will open automatically. Right click on "Method Manager". Select "Send To" then "Desktop" to create a shortcut on your desktop.

*Compatible with Windows 2000, XP, Vista, & Windows 7

1. Connect the pump to the PC using a USB cable
2. Turn Pump 11 Elite or Pico Plus Elite on
3. Start Method Manager
4. Select the proper COM port.

Overview

Method Manager allows the user to:

- Upload methods from the pump to a PC
- Download methods from PC to Pump
- Send commands to the pump using a PC
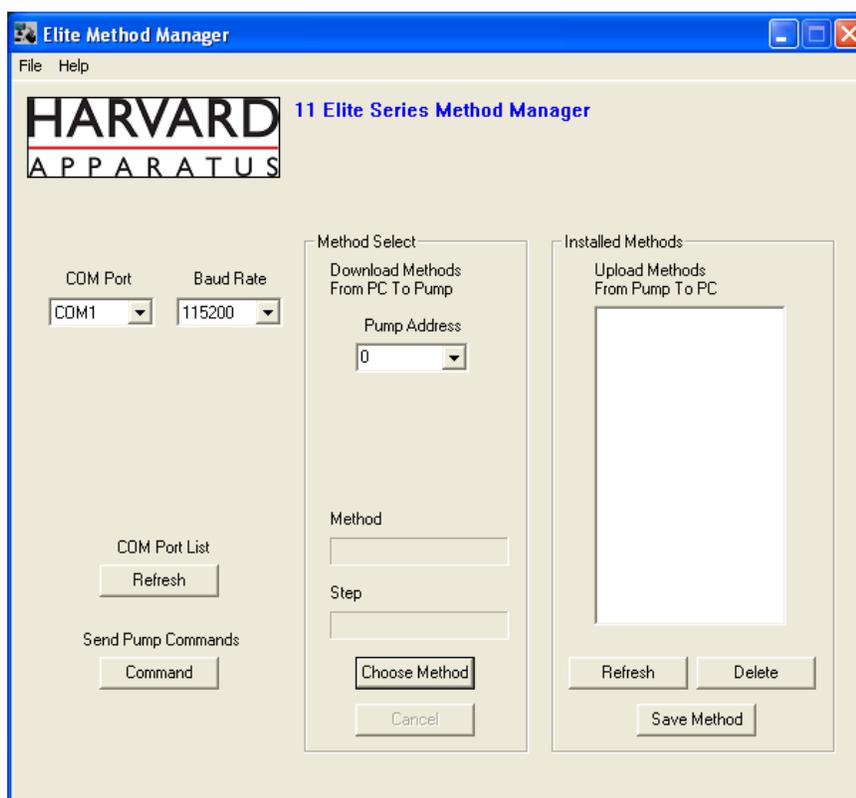
| Pump Command * Line (all Pump 11 Elite family) | PC → Pump Method Control (programmable pumps only) | Pump → PC Method Control (programmable pumps only) |

*No Need for HyperTerminal

Upload – Pump to PC

1. Select Method(s)

2. Click 'Save Method'
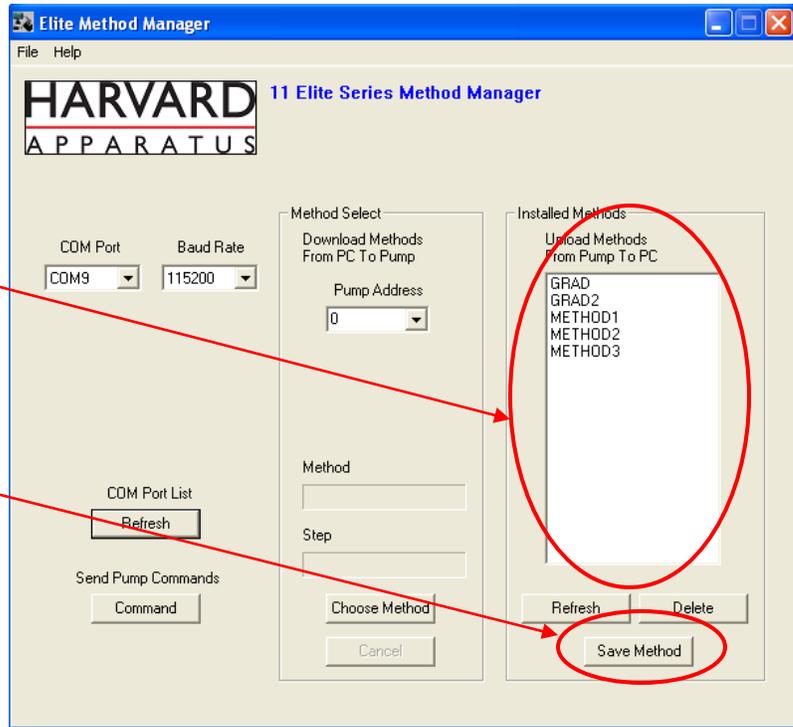
NOTE: Hit 'Refresh' to update the list after creating or editing methods on the pump

3. Select the drive and folder location

4. Click 'Save'
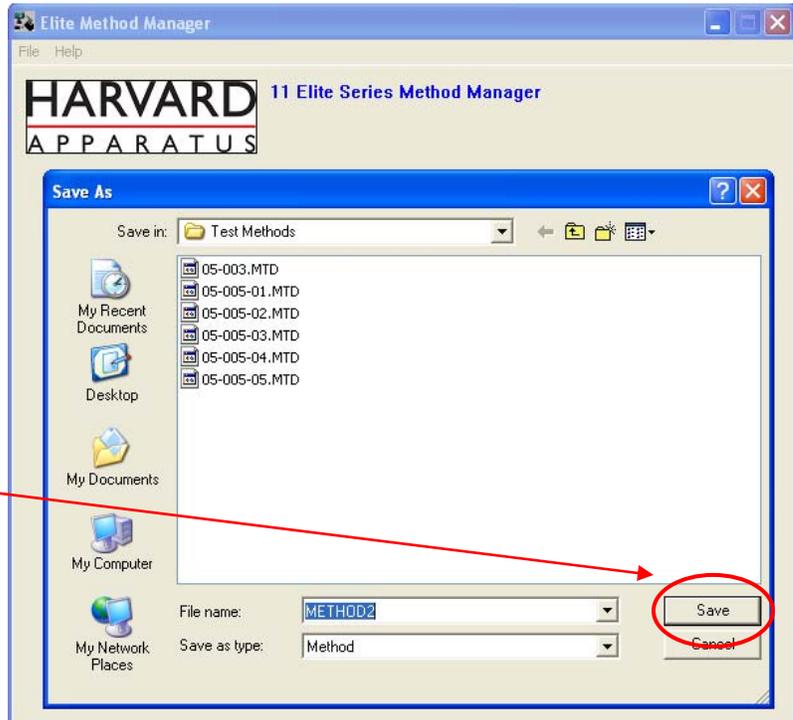
*Do not upload/download methods while pump is running
 Program works best while pump is idle on Quick Start setup screen

Download – PC to Pump

1. Click 'Choose Method'

2. Select Method(s) to download
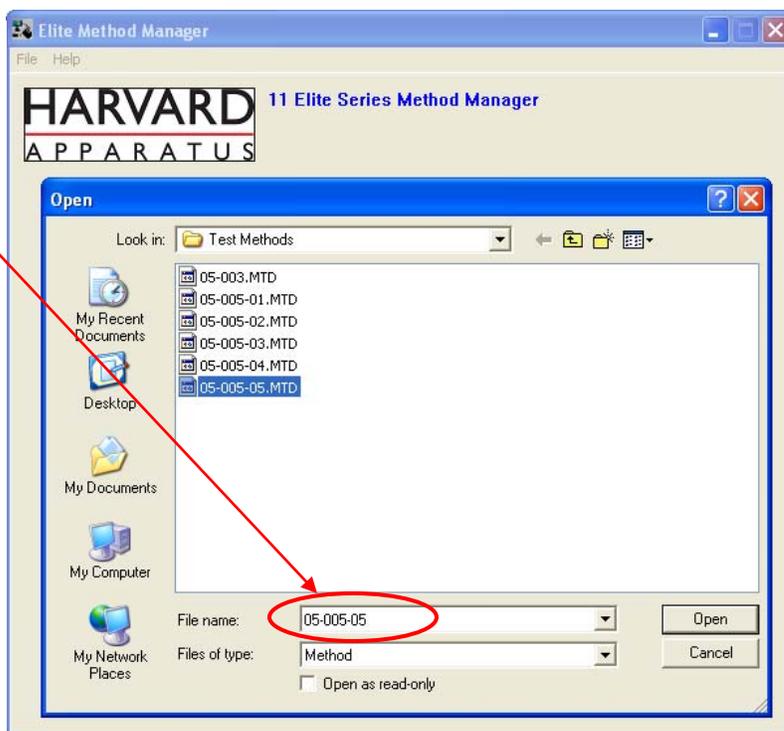
3. Method name and step number being downloaded is shown
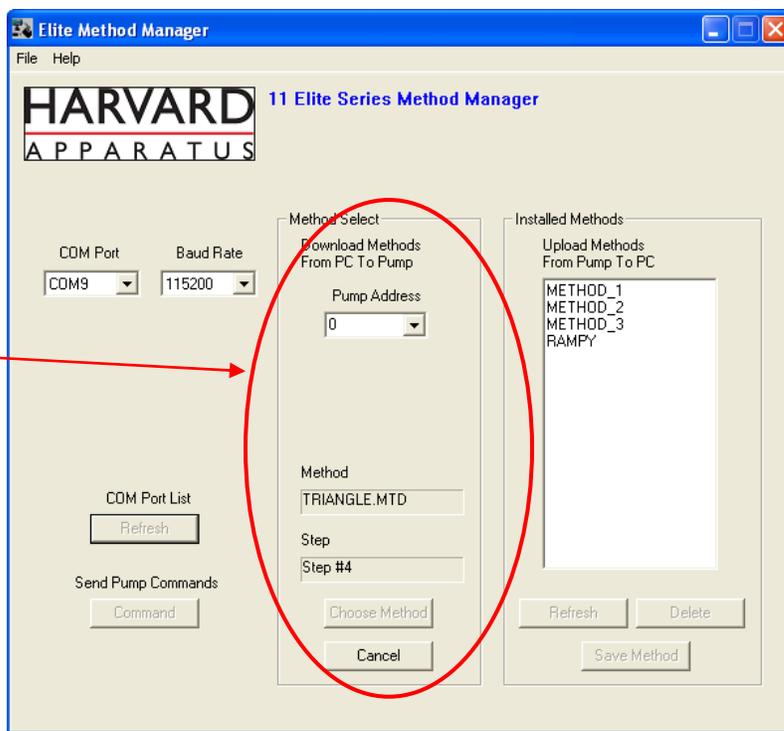
*Do not upload/download methods while pump is running
Program works best while pump is idle on Quick Start setup screen

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If a method already exists on the pump, Method Manager will not overwrite the file if you attempt to re-download it

NOTE: Changing a file name, on the PC, will not change the method name within the file
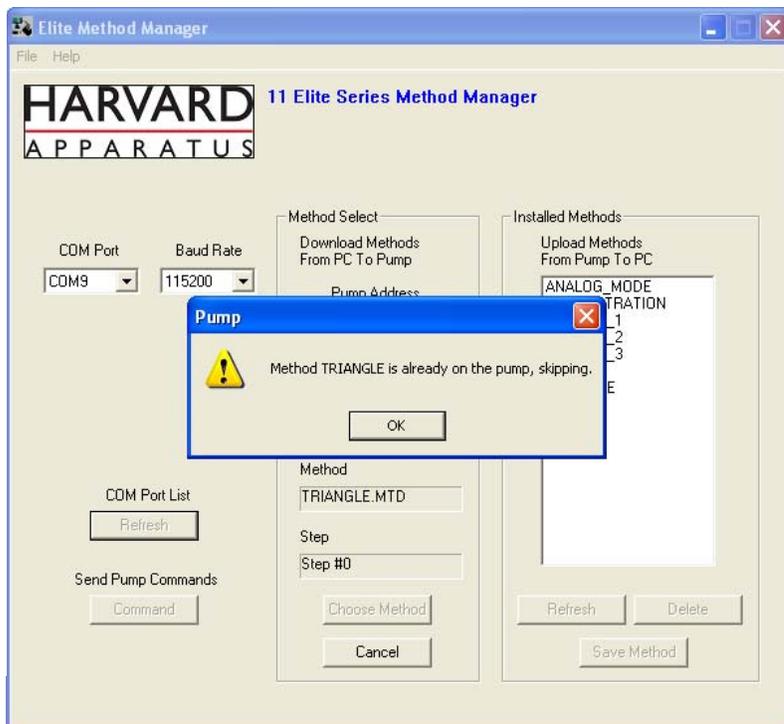
Sending Commands to the Pump

1. Click 'Command'

2. Type commands

3. Click 'Send'

Note 1: See Pump 11 Elite user's manual for complete list of commands

Note 2: If unexpected responses are seen type 'echo off'
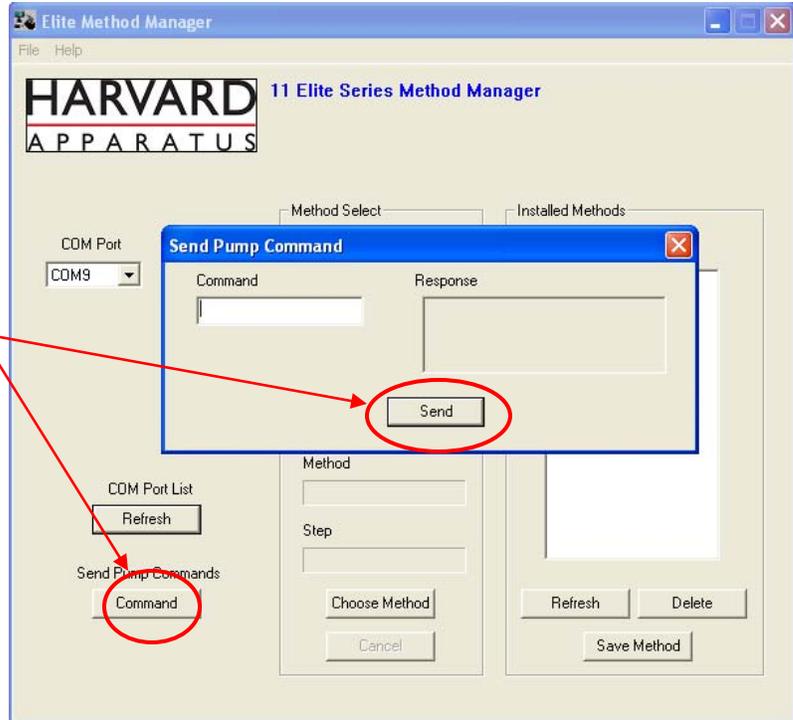
Troubleshooting

1. Do not upload/download methods while pump is running
   - Program works best while pump is idle on Quick Start setup screen

2. Order of Operations:
   - Connect USB cable
   - Turn pump on
   - Start Method Manager program

3. Message 'Pump not Programmable'
   - If not a programmable pump – contact Harvard Apparatus for an upgrade
   - If pump is programmable – go to command line and type 'echo', if echo is on type 'echo off'