

### **Read Me**

## UNILOGIC<sup>™</sup> SOFTWARE

UNISTREAM<sup>TM</sup> AUTOMATION IDE

Unitronics' **UniLogic™** software is the programming Integrated Development Environment (IDE) you use to configure hardware, communications, and develop both Ladder control and HMI applications for **UniLogic™** control devices.

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## **Minimum System Requirements**

- 1.6 GHz or faster processor
- 1 GB of RAM
- 10 GB of available hard disk space
- 5400 RPM hard drive
- DirectX 9-capable video card running at 1024 x 768 or higher display resolution
- 32-bit colors
- Minimum requirements: Windows XP(SP3) and above.
  - \*Note UniLogic V1.21.xx and up does not support Windows XP
- Recommended requirents: Vista (SP2) and above.
   Note that all Windows versions must be installed with the latest service patches released by Microsoft.
   Both x86/x64 systems are supported.

Notes Windows XP: the UniLogic<sup>™</sup> installation will also include SQL 2008 R2 Express.

The UniLogic<sup>™</sup> installation files for higher versions of Windows do not require SQL 2008 R2 Express.

# **UniLogic Installation**

- 1. Download the UniLogic setup file.
- 2. Run the setup and follow the onscreen directions.

## Firmware Update and Management

When you download a project, UniLogic checks to see if the firmware in the controller is compatible with the UniLogic version. If not, UniLogic displays the following message, which includes directions for updating the firmware.

Û	This operation cannot be completed until the Update the files: connect a USB stick to this the USB stick to update the controller. or Press cancel to stop the download	controller OS is updated. Either: PC and press Update to copy the files,	, and then us

In some cases, the download might proceed, but when it is complete, the controller panel displays a message with instructions: HMI Version Mismatch message.

## Firmware Management

The PLC tab on the program ribbon offers Firmware Management tools.

The instructions below refer to a DOK, which stands for Disk On Key. This may also be referred to as a USB Stick, Memory Stick, USB Drive, Flash Drive, or Flash Stick.

Click Firmware Manager to locate all firmware files on your PC. You can then select the desired firmware and copy it onto a DOK and install it in the controller.

If you have an Internet connection, you can click Update Firmware to connect to the Unitronics website and download any new firmware releases.



To install firmware via UniApps:

- Plug a DOK containing the firmware into the panel's USB port. Note that the DOK must be formatted to FAT32, be of **at least 4G** capacity, and have sufficient free space to contain the firmware.
- 2. Open UniApps by pressing the upper right corner of the panel for several seconds.
- 3. From the System tab, Select Upgrades.
- 4. Under Panel Upgrade, press Upgrade PLC.



5. Wait for the system to complete the process.



# Windows USB Driver Installation

Depending on your version of Windows, you may need to install the USB drivers manually in order to establish UniStream - PC communications. Note that you can simply choose to connect to UniStream via Ethernet for application download, Online Test mode, etc, thereby skipping the need to install USB drivers.

Under Windows 7, the USB driver installs automatically without issues.

### Windows XP

To install the driver manually, follow the directions below:

- 1. Connect the UniStream device to the PC using the USB cable.
- 2. The Found New Hardware Wizard opens; click Cancel.



- 3. On the UniLogic ribbon, select PLC and then click Communication.
- The Discovery window opens, ensure that USB is selected. If the USB driver is not installed, this information appears in the window; click on the hyperlink "Click Here" as shown in the following figure.

Image: Select the UniStream PLC to connect to:   Image: Select the UniStream PLC to:   Image: Select	PLC Ladder Hel	p							
Communication       Debug         Image: Discovery       Image: Discovery         Untitled'       Select the UniStream PLC to connect to:         tardware Configuration       Select the UniStream PLC to connect to:         Controller Model       Ethernet 192.168.1.2 Online Port: 0 Download Port: 0         Local I/O Modules       USB         I Remote I/O       USB         If Function1       Image: Discovery         Module1       Image: Discovery         Image: Discovery       Image: Discovery	Online Verify	Communication	Compile	Rebuild All	Defrag	Export Memory Allocation	Export Tags •	Import Tags •	N
Untitled' t tardware Configuration Controller Model Local I/O Modules Remote I/O LC Communications adder Module1 # Function1 MI Module1 IDEStream driver mission Click Hare to install driver	Communication					Debug			
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Tables	Untitled' ct Kardware Configuration Controller Model Local I/O Modules Remote I/O LC Communications adder Module1 MI MI Module1 Screen1 ctions ata Tables	UniStream	t 192,168	UniStre	am PL(	tall driver	ad Port:	0	

5. During the driver installation process, Windows may raise questions about testing and compatibility. Select Continue Anyway.

Software Installation				
1	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. ( <u>Tell me why</u> this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.			
	Continue Anyway			

6. When the driver installation is complete, Discovery will begin searching for Hardware. When Discovery finds the connected UniStream device, it will appear in the list; and may be selected as the Communication Target.



### Windows 8/10

The PC to UniStream USB connection is via Ethernet. However, Windows 8 and 10 identify it (incorrectly) as a serial connection.

This is why you must install the driver manually according to the following instructions:

In addition, note that the UniStream USB driver is not digitally signed. This means that you must disable driver signature enforcement **before** you can install the driver.

### **Disabling Driver Signature Enforcement**

 Hold down the Shift key while selecting Restart. Restart is located under Power options menu (Windows 8: located under Charms or on the login screen) (Windows 10: located on the Start Menu). The PC will reboot, enabling you to select Troubleshoot.



2. Select Troubleshoot > Advanced options> Startup Settings.



3. Click Restart, and when Startup Settings opens, press F7 to disable driver signature enforcement; upon restart, digital signature enforcement is disabled.



#### Manually Installing Driver, Windows 8/10

 After you install UniLogic, connect your UniStream to your PC; and then open Device Manager.
 The connected UniStream will appear as a USB Serial Device: right-click is

The connected UniStream will appear as a USB Serial Device; right-click it and select Update Driver Software.



2. Select Browse my computer software; then click Browse.



 Click Have Disk, and then navigate to the driver location, typically C:\ProgramData\Unitronics\UnLogic\Drivers and then click Open..

<ul> <li>Update Driver Software - USB Serial Device (COM5)</li> <li>Select the device driver you want to install for this hardware.</li> </ul>	Locate File	Drivers			G 🗊
Select the manufacturer and model of your hardware device and then click Next If you have a disk that contains the driver you want to install, click Have Disk.	*	Name		Date modified 8/17/2015 1:13 AM	Type File folder
Model	This PC	Initror	nics	10/14/2012 7:19 PM	Setup Info
This driver is digitally signed.		<		_	2
Tell me why driver signing is important		File <u>n</u> ame:	Unitronics	~ [	Open 2
Next Cancel		Files of type:	Setup Informat	ion (*.inf)	Cancel

4. The correct driver should now appear under Model, click next to install it. If Installation is successful, Windows displays a Success message.

<ul> <li>Update Driver Software - USB Serial Device (COM5)</li> <li>Select the device driver you want to install for this hardware.</li> <li>Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.</li> <li>Show compatible hardware</li> <li>Model</li> </ul>	Update Driver Software - Unitronics Unistream USB Ethernet/RNDIS Gadget Windows has successfully updated your driver software Windows has finished installing the driver software for this device:
Image: Cancel	Unitronics Unistream USB Ethernet/RNDIS Gadget

5. Check Device Manager; the driver should now be listed under Network adapters.



# <u>Known Issues</u>

Windows Versions and UniLogic Project Issues

The UniLogic installation uses different databases:

- Windows XP uses SQL 2008
- Window 7 and up use an internal database.

This causes issues when porting complete UniLogic projects, individual Ladder functions (UDFBs), and HMI screens:

- UniLogic V1.21.xx and up does not support Windows XP
- Opening a project that was written in Windows 7 (or later)in Windows XP will cause UniLogic to shut down.
- Trying to upload a project into XP that was downloaded using Windows 7 (or later)
- Importing Ladder functions and HMI screens that were written in Windows 7 (or later)in Windows XP will cause UniLogic to shut down.