



# **UV3000 Control System Upgrade**

INNOVATIVE IDEAS FOR THE WATER AND WASTEWATER INDUSTRY

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Allow me to introduce you to Methodworks.

Methodworks is an Automation and Information Systems Integration firm that specializes in creating solutions for the water and wastewater industries. We offer systems engineering, design consultation, system development, start up and training. We develop integrated plant floor to business level solutions, or can help you with upgrades to existing control, SCADA and business systems.

Methodworks has over eleven years of experience working with industrial automation, instrumentation and control systems, with the last four years being dedicated solely to the water and wastewater treatment industries. Because of this industrial focus, we have a better understanding of your needs and therefore provide the high quality products and services that are best suited for your types of applications. Our industry focus has facilitated implementation of innovative ideas that enable Operators, Engineers and Managers to run their facilities more efficiently.

In the attached brochure you will learn about our latest product, the UV3000 Control System Upgrade. We have included many new improvements that UV3000 owners have been asking for and have added some important upgrades to improve the operation and efficiency of your UV disinfection unit.

At Methodworks, we pride ourselves on exceeding our clients expectations; our job isn't finished until you are completely satisfied. We provide 24/7 product support to insure that systems we install always run smoothly.

Put Methodworks experience to work for you on your next water or wastewater project.

Best regards,

A handwritten signature in blue ink, appearing to read 'Arron Shore'.

Arron Shore  
Owner  
Methodworks, LLC.



# UV3000 Upgrade

## Imagine Better Control

Operators have been asking for an easier way to manage the UV3000 unit. Now there is a more efficient way to monitor and control your UV disinfection system. Take the guess work out of operating and get a new found confidence in your UV3000 Disinfection System. Our upgrade ultimately maximizes the functionality that it was intended to have.

### **Benefits**

Learn how this upgrade can improve your UV3000 Efficiency.

### **Software**

Learn about the all new Human Machine Interface. These control system feature improvements will blow you away with the easy to use interface.

### **Hardware**

Included with this upgrade comes an all new touch screen panel to easily monitor and administer your UV3000 unit and control system hardware to improve equipment monitoring, reliability and add functionality.



## Human Machine Interface

### Touch screen for easy control and monitoring

Have the same functionality and view whether you're in the control room or standing right in front of your UV3000.



### System Overview

Quickly see all of the important information that relates to the performance of your UV disinfection system.

### Process Flow and Transmittance

Monitor flow and transmittance, the two key factors in determining the required UV intensity.

### Module Status

Quickly reference the status of each module. The status display shows overlaid bulb and ballast status so you can quickly identify outage areas.

### Bank Status

The bank status shows if a bank is online, offline or if it is cooling down and how much time is left in that operation. You can also see the measured UV intensity, current required UV intensity and runtime since last reset.

## Human Machine Interface

Find out what your UV3000 has been up to by clicking on the trending button for each bank..

Follow this link to the Knowledge Base for your system and find answers to your most common questions.

The screenshot displays the 'UV Dose Control' interface. At the top, it shows 'UV Intensity Req.' at 39.1 mW/cm<sup>2</sup> and 'Banks Required' as 3. Below this, three UV banks are detailed:

- UV Bank 1A:** Bank Status is 'Cooling Down', UV Measured is 44.1 mW/cm<sup>2</sup>, Bank Position is 2, and Runtime is 15hrs. The lamp count is 0 on.
- UV Bank 1B:** Bank Status is 'Override Reset', UV Measured is 35.0 mW/cm<sup>2</sup>, Bank Position is 3, and Runtime is 4hrs. The lamp count is 96 on.
- UV Bank 1C:** Bank Status is 'OnLine', UV Measured is 37.1 mW/cm<sup>2</sup>, Bank Position is 1, and Runtime is 4hrs. The lamp count is 88 on.

Each bank has a 'Trending' button and a 'Lamp Count' display. The interface also includes a 'Setup' button and a 'KB' (Knowledge Base) link.

Change which bank you want to be ranked first, second or third.

Find out quickly what each bank status is.



## Touch Screen

### 15" Touch Screen

This powerful new touch screen eliminates the maintenance problems that occur due to different HMIs. Now you can have the exact same functionality at your UV system as you have at any other SCADA workstation.

Depending on your needs, this standalone unit can serve your UV3000 alone or can be paired with a full computer tower for added functionality.



- Fanless
- 1 GHZ Processor
- USB 2
- Support Dual LAN
- Water Resistant NEMA 4,12
- 1024 x 768 Resolution



The new HMI is an industrial grade panel mount PC with an integrated touch panel built to meet the rigors of everyday use. And with a respectable 15" viewing area, you won't have to wonder what is really going on with your UV3000.

## Communications Hardware

This significant hardware upgrade will add several new features and allow you new found control and usability of your UV disinfection unit. Break away from proprietary software and hardware that keeps you guessing when trouble arises.



### **Bank Controller**

Industrial RTU provides reliable communications along with new and improved control features of the UV3000.



### **Module Board**

Designed for industrial applications, this new board provides accurate monitoring and control of your UV lamps.

## **Improvements**

- Standardized Communication Protocol
- Diagnostic and Troubleshooting Tools
- Individual lamp and Runtime
- Lower replacement costs of current Trojan hardware
- 2 year warranty