

# RTMS Echo

## Firmware v2.0 Release Notes



ImageSensing  
systems

### Overview

We have added some new features to the RTMS Echo firmware version 2.0.

This is a production release for the Echo product line and an optional upgrade for existing Echo sensors and changes made do not effect operation or functionality of existing sensors.

### Features

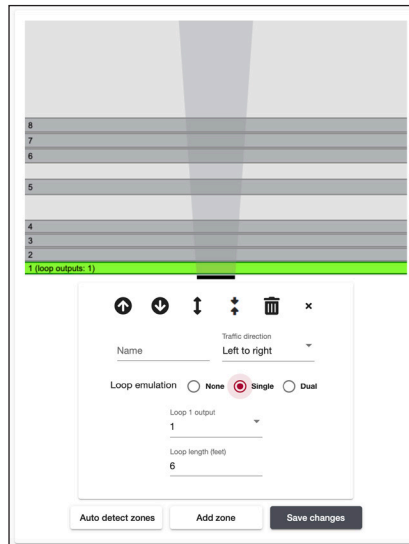
#### Security

We implemented several security-related capabilities to ensure your network and information stays secure. The following have been implemented in accordance with the requirements of NEMA TS8-2018:

- The ability to enable encryption of network traffic using HTTPS
- Password protected access to the web interface with the option to require complex passwords
- Require a password change after initial login to the Echo web interface
- Automatic logoff from the web application with configurable logoff period
- Authenticated API

#### Loop Emulation via Contact Closures

We've added loop emulations via contact closures to the RTMS Echo. This feature converts the measured per-lane traffic flow statistics into loop equivalent outputs, allowing the information to be ingested by traffic controllers and other similar NEMA-compliant traffic equipment.



#### Single or Dual Loop Emulation

The system can emulate single or dual loops and has a configurable loop emulation size and trap spacing to ensure that the loop emulation signals can be calibrated to match the needs of your system.

#### External Contact Closure Module

We utilize an external, DIN rail mounted module with expandable outputs which reduces the cabling complexity of previous systems. This form factor allows you to use a single contact closure module to integrate multiple RTMS Echo detectors with a single traffic controller – further reducing the amount of wiring required to support this configuration.

