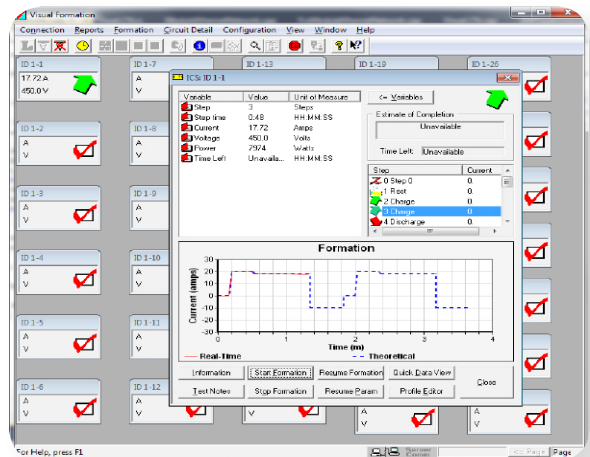


## Control in a familiar interface

Are you manufacturing batteries for lead-acid or advanced cell chemistries? VisualLCN Formation Client software, together with Bitrode's outstanding formation hardware will give you superior control of your production workflow. Navigate through your workflow with the click of a mouse and control your processes with drag-and-drop ease of use.

Designed for flexibility, VisualLCN's Windows-based client-server architecture allows you to work on a standalone computer or control your Bitrode hardware from anywhere on your network. Using intuitive images and controls familiar to Windows users eases the learning curve for operators and staff.

The software is an easy to use, fully featured, flexible and powerful programming tool for Bitrode formation equipment that enables the user to spend more time charging and less time writing and debugging the program. You'll be impressed with how smoothly a new program can be built and how well the VisualLCN system will integrate with existing enterprise networks.

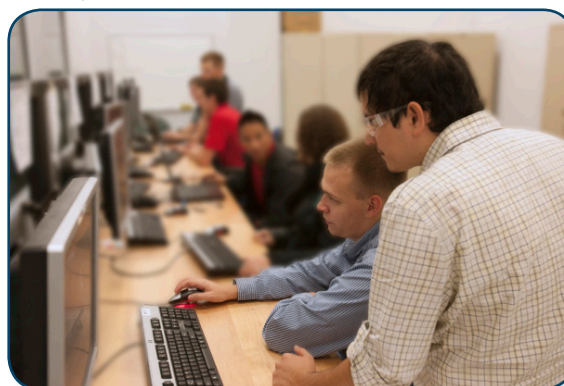


## Highlights

- Create custom charging programs with minimal training
- Manage your workflow with user-configurable circuit organization
- Expand/collapse views of program steps for easy monitoring
- Obtain accurate results thanks to built-in program syntax and variable value checking
- Analyze your data using built-in graphing utility, Excel spreadsheet or Access database
- Receive real-time email or text message updates for custom defined events

## Customize your test program

VisualLCN's Formation Client window provides a fully customized workspace for circuitry control, allowing you to place graphic representations of your formation chargers anywhere on screen. Organize views of your charging circuits to reflect a map of the formation floor, or in any other layout you choose. Circuits can be viewed singly or grouped for convenience in control and status review.



Choose the information you need to view. Formation Client allows you to pick from any of several variables to view in real time for each circuit, keeping information about voltage, current, program step, or other variables in plain sight.

When a charging program is started, Formation Client asks you what type of batteries you are producing, how many are on the string, and what boost program to run. You can specify extra fields or

notes to add to the data returned from formation or where in a program to start the circuit running. Once these choices are made, hit the "Start" button and you're off and running!



BITRODE HEADQUARTERS  
9787 Green Park Industrial Drive  
St. Louis, Missouri 63123 - USA  
tel: +1 636 343-6112  
fax: +1 636 343-7473  
email: info@bitrode.com

## Computing Requirements

Current computing requirements available upon request or can be found on [www.bitrode.com](http://www.bitrode.com).

## Manufacturing Equipment

### Formation

- CDN:** High Voltage Charge/Discharge
- CD:** Manual Charge/Discharge
- VCF-CR/CD:** High Voltage Charge/Discharge
- CR:** Constant Current Manual Charger
- CRN:** Constant Current Network Charger
- HD-CR/CD:** IGBT Charge/Discharge

### End of Line Testing

- HRD:** High Rate Discharge Testing
- VRL/VRX:** High Current Production Line Test
- TFX:** Fully Automated Production Line Testing

## Monitor your progress

Don't be left in the dark. VisualLCN's realtime data acquisition capability allows you to check the progress of a running circuit using one of several methods. View data from circuits in process using the tabular Individual Circuit Status window, or check progress graphically, watching variables plot in real-time. Data can be gathered from individual circuits or from entire groups in the Formation Client window. Color coded alarms notify you when circuits are in need of attention.

We understand that you aren't always in your manufacturing facility. That's why we created the User Connection Center. With this feature, you can create trigger alerts that generate text messages or emails to notify you of a change in your program.

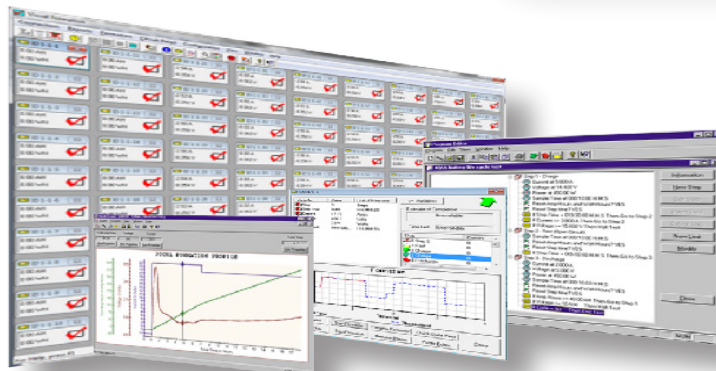
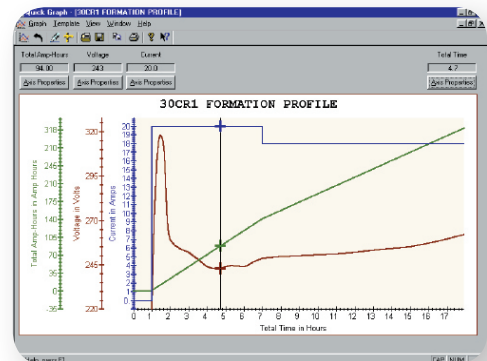


## Analyze your results

Quality control and battery manufacturing depend upon access to formation data for success. VisualLCN offers great flexibility to interpret such data. Information returned from your tests can be viewed in tabular format or in a user-configurable graphic view.

Choose the data you need to see, and how you'd like to see it. Graphs are easy to interpret with user-customized data ranges, graph colors and line styles.

Whether you need an Excel spreadsheet, an Access database, or a dynamic graph of your test results, VisualLCN can help you create a report of your own design.



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BITRODE HEADQUARTERS  
9787 Green Park Industrial Drive  
St. Louis, Missouri 63123 - USA  
tel: +1 636 343-6112  
fax: +1 636 343-7473  
email: [info@bitrode.com](mailto:info@bitrode.com)

[www.bitrode.com](http://www.bitrode.com)

