

**v.ARC™**

**Model 3**

Online Radioisotope Detector



The Most Advanced Radioisotope  
Detector for Liquid Chromatography

**ARC™**  
AIM RESEARCH COMPANY

*Research, Designed Better*  
[www.AIMResearchCompany.com](http://www.AIMResearchCompany.com)

# Ultrasensitive Radioisotope Detection

HPLC : Detects peak width of 10-30 seconds

UPLC : Detects peak width of 3-5 seconds



The pioneering v.ARC (nu-arc) Model 1 was the first radioisotope detector specifically designed for sensitive online radioisotope detection in HPLC (High-Performance Liquid Chromatography). Today's innovative v.ARC Model 3 offers unmatched performance and powerful capabilities for UPLC (Ultra Performance Liquid Chromatography), HPLC, and other high-resolution liquid chromatography with sub-micron particle packed columns.

## Performance

### Detection Optimized Technology™

*High Peaks, Lower Noise*

Detect:  $^{14}\text{C} \geq 50 \text{ DPM}$   
 $^3\text{H} \geq 100 \text{ DPM}$

Background:  $< 1 \text{ CPM}$

Consistent Linearity

### Dynamic Flow™ Technology

*Exceptional Resolution*

Patented technology increases peak resolution & decreases peak width

Easily resolve UPLC resolution peaks

Reduce cocktail usage

## Hardware Features

- Standard contact closure communication with other systems
- Analog voltage output and input: Standard analog voltage signal output that can be used as input to other systems and software. Also accepts analog voltage input from HPLC UV detectors.
- Waste Splitter: Separates radioactive waste from non radioactive waste, allowing users to separate their sample waste and reduce the cost of material disposal.
- Integrated precision pump for cocktail delivery (controlled by the detector)
- New and efficient flow cell design for maximum efficiency and resolution. Flow cell internal volume is customizable to meet any user needs.
- Dimensions: 14 × 9 × 6.5 inches (35.6 x 22.9 x 16.5 cm)
- Weight: 31 lb (14 kg)

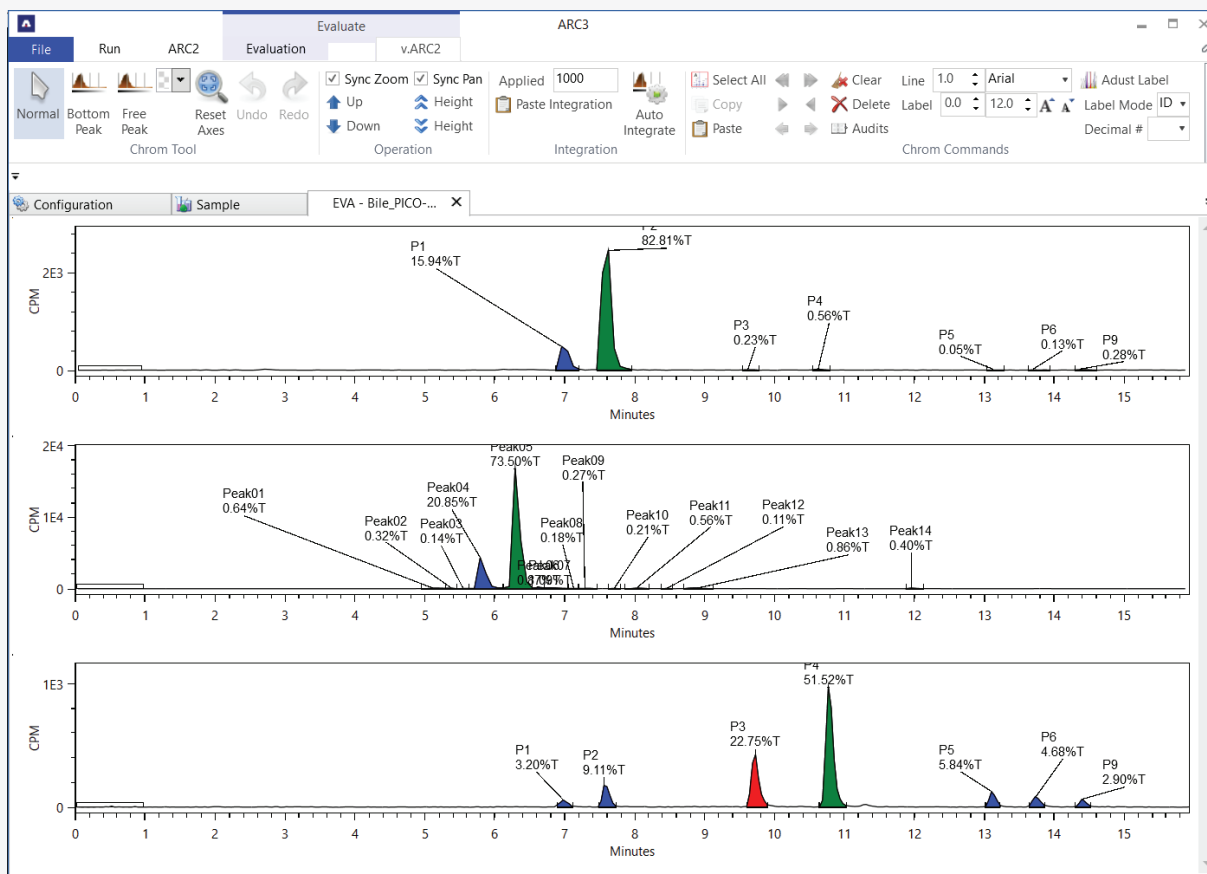


# Powerful Workflow in ARC Data System 3™ Software

Instrument control, method and sample creation, data evaluation, and reporting are all included in this updated version of ARC Data System 3, with new time-saving features for every type of user.

## Software Features

- Easy and simple interface with ability to switch between multiple setups and evaluations
- Manual or automated peak finding
- Summary peak data table
- Precise peak defining tools
- Copy and paste peak properties and data
- Customized reporting templates
- GLP and 21 CFR part 11 compliance options



# Dedicated to Improving Your Research

## Options to Fit Your Needs

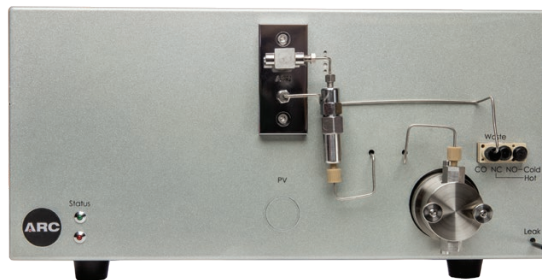
With various customizable options, there is always a setup that will meet your research and application needs. Contact us to learn more.

## Extensive Customer Support

We are highly dedicated to our users with quick response times and communication. We support our customers in any setup and application they have.

## Get a Quote and Schedule a Demo

Interested in v.ARC Model 3? Visit our website at [www.AIMResearchCompany.com](http://www.AIMResearchCompany.com) to request a quote. Contact us to schedule a demonstration of our instrument in your lab environment by one of our knowledgeable service engineers.



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