



Annual Users' Conference

**ADVANCING RADIATION SAFETY.
EMPOWERING PROGRESS.**

M Resort, Henderson, NV | June 15 – June 18



MIRION
TECHNOLOGIES

Advancing Radiation Safety.
Empowering Progress.

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Scan QR code to log your
attendance for today's
(Thursday, June 18th)
breakout session



Innovations in Portable Health Physics Instrumentation

Advancing Performance, Connectivity, and Usability in Radiation Protection

Kip Kelley

Key Account Manager

Mirion Connect | Annual Users' Conference 2026

Henderson, NV

Why Innovation Matters?



Why Innovation Matters?

Changing Industry Landscape

- ALARA
 - Long term, reduction in ALARA Planning
 - Loosened Exposure Thresholds
 - More Focus on Maximum Limits
 - Support for more Innovation
- Worker Efficiency
 - One Meter Platform, allows for less inventory and more efficient training platform
 - Reliability (new technologies, e.g. SiPM replaces traditional PMT)
 - Connectivity to networks for live time assessments



What does Mirion do to support innovation?

Next Steps

- Voice of Customer
 - Key Account Manager 1-2-1 Customer meetings
 - Provide Feedback to Product Line Manager Teams
 - R&D
 - Specific Plant Requests
 - Conference Feedback (like this week!)



RDS-32 – Wait . . . It does that too?



I did not know it could do that?

Brief reminder of the RDS-32 capabilities

- RDS-32
 - Multi-Functional
 - Connectivity to Neutron and Gamma Detectors as well as Beta and Alpha Friskers
 - Smart Detectors – they do not have to be married to a specific probe.
 - Friskers can display dpm vs. cpm since cal factors are stored on the detector
 - Less equipment required at the job site. 1 meter and 1 frisker probe compared to typical multiple meters / probes.



First up – the GMP-15



GMP-15S

Snap on Frisker

- All in one dose rate meter and frisker
 - No Cables
 - There are no filters to enable modes. It is always reading dose rate and contamination
 - It can be setup to read only external probe
 - Off the shelf LND GM Tubes
 - One Hand Operation
 - Calibration with CSW-32 Software
 - Simple detector changeout



CSPevo (AB-100)



CSPevo (AB-100)

Multi-Functional Alpha Beta Frisker (100cm²)

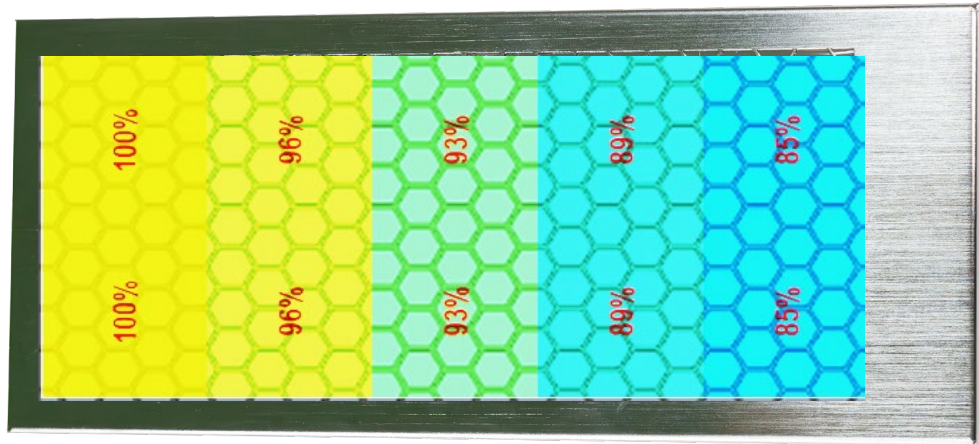
- Same attributes as GMP-15S
 - LightLink – Mirion's next-gen detector technology.
 - Why LightLink?
 - More Rugged as it is not using traditional PMT
 - By using LightLink, significantly lighter
 - No HV
 - Lower Power
 - Faster signal processing
 - Improved efficiency (Beta 44% vs. 43% and Alpha 46% vs. 43%)
 - Do not have to wait on light decay after servicing the detector



CSPevo (AB-100)

But wait, there's more?

- No Microphonics
- Outer Mylar, quickly replaced.
- Traditional Handle or all in one
- USB (C) Connection for calibration (CSPS)
- Better Surface Detection Homogeneity (>85%)



CSPevo (AB-100)

Simple Setup with Modular Handle System



Tele-GMP



Tele-GMP

Simple Design that integrates the RDS-32 and GMP-12 GSD into one system

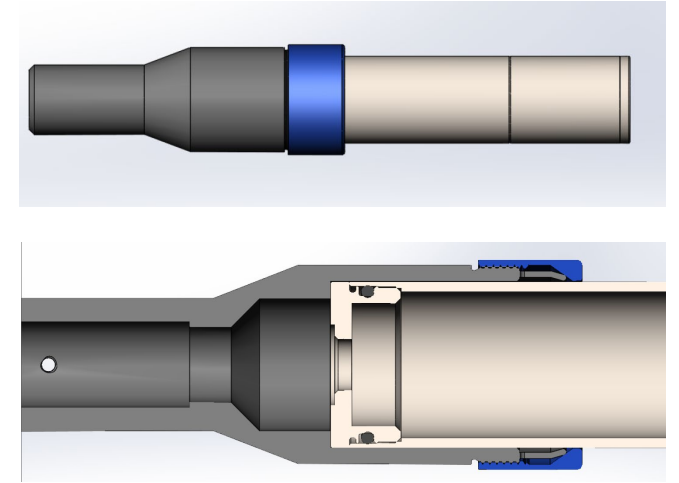
- Tele-GMP
 - Carbon Fiber Pole (Weight Reduction)
 - Detachable Detector
 - Calibration with CSW-32
 - External detector diameter 1.70 in (for calibrator port)
 - New Strap Positions



Tele-GMP

Improvements over previous extendable pole solutions

- Detector Head
 - Detector Mount, compression type mounting
 - Traditional RDS-32 Cable (industrial)
- Meter Mount Updated
 - Static Angled Mount
 - Utilizes battery clip
 - Less Moving Parts
- Pole
 - Added Rings (Safety Feature to prevent completely unscrewing pole section.
 - No Rings



Avior-P



AVIOR-P

Next Generation Desktop Meter

- What is an AVIOR?
 - Dual Detector Smart Meter Interface
 - Multi-Functional (H&F, Dual H Configurations)
 - Scaler Capabilities
 - Background Subtraction
 - Multiple Alarm Setpoints (Alarm, High Alarm)
- Why AVIOR-P?
 - Allows the use of a utilized a traditional (dumb) Frisker Probe
 - HV in the range of 400 V to 960 V (accommodates most pancake type available (MHV Connector))

Coming 2026



IC3



IC3

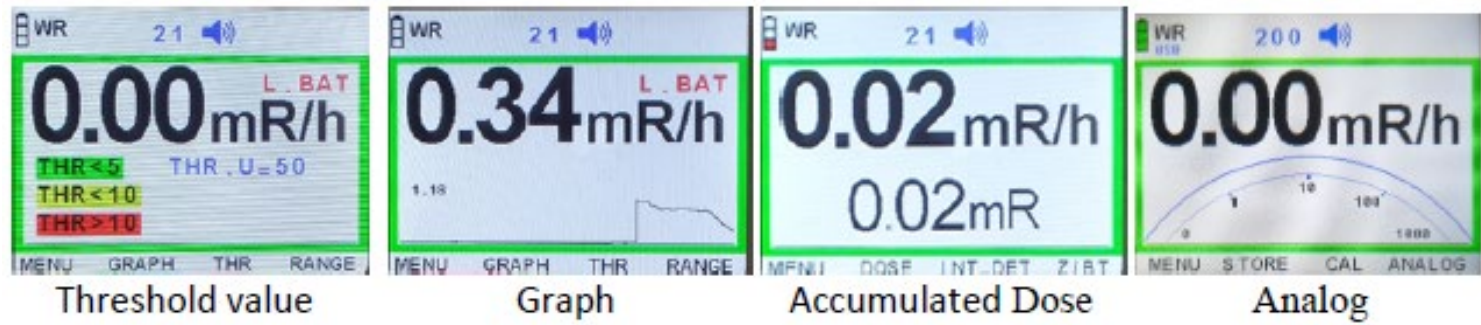
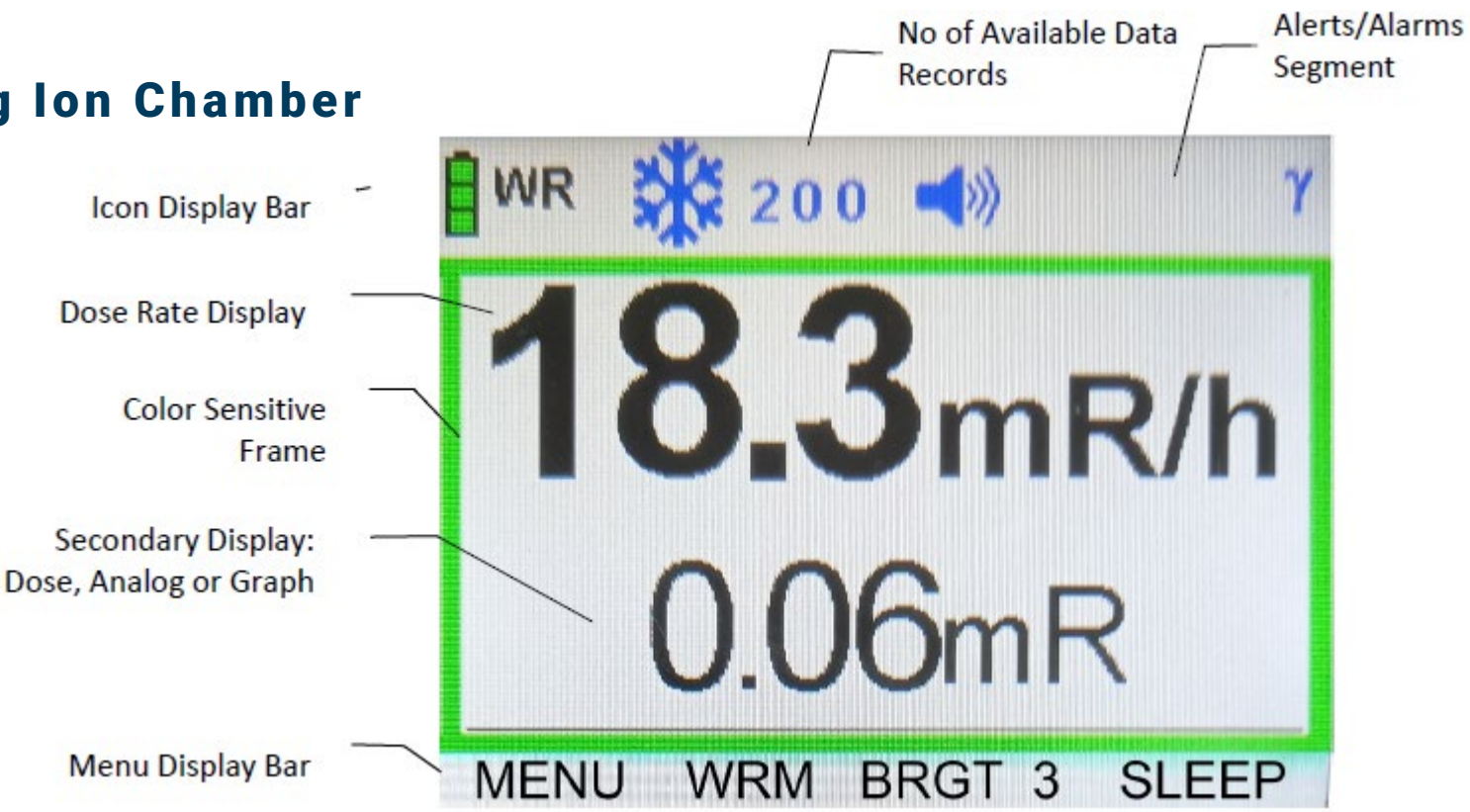
Electronic Auto Ranging Ion Chamber

- Sealed Electrometer – **Requires No Desiccant**
 - Wide Range of Measurement (0.1 mR/hr to 100 R/hr)
 - NDT tool for detection of pulsed X-Rays down to 50 nanoseconds
 - Light Weight
 - Built in memory
 - USB-C connection for calibration and externally powered
 - Beta Window Status (unit will alarm if not fully open or closed)
 - Large Display
 - WRM Radio for Connectivity



iC3

Electronic Auto Ranging Ion Chamber



Future, What's Next?



More CSP Evo

A-100, B-100, ABG-100

- A-100 Simplifies monitoring for alpha environments or alpha only frisking
- B-100 Larger detector area for frisking
- ABG-100 Takes into account low, medium, high energy isotopes.



Final Thoughts



Final Thoughts

- Connectivity
 - Ensuring instruments have a connectivity back to a monitoring software and finding new ways to accomplish this (Vital, RadResponder, phone apps)
 - Finding new ways to incorporate BT
 - Modular Systems. Reducing the needed equipment.
- We welcome your feedback.

Survey for:

Innovations in Portable Health Physics Instrumentation



Please take a moment
to fill out a short survey
on this session.

Thank you

