Mr. Willis Blackshear, Chair  
Automatic Data Processing Board  
451 West Third Street  
Dayton, OH  45422  

Dear Mr. Blackshear:  

A special Automatic Data Processing Board meeting has been scheduled for Wednesday, January 24, 2018 at 9:00 a.m. in the 6th floor Data Processing Training/Conference Room. The agenda will be as follows with supporting documentation attached.  

(1) Minutes from the January 8, 2018 meeting  

(2) Office of Emergency Management - Purchase of Radiation Detection Backpacks (cost not to exceed $142,000.00) and Radiation Detection Pagers (cost not to exceed $98,000.00) from Thermo Fisher Scientific Thermo Eberline LLC  

Sincerely,  

KARL L. KEITH, Secretary  
Automatic Data Processing Board  

KLK/bru  

Attachments  

cc:  ADP Board Members  
James Alford, Data Processing Director  
Tina Ratcliff, Records Manager  
Lynn Cooper, Chief Deputy Treasurer  
James Dare, Common Pleas Court Administrator  
Kate Evans, Auditor’s Office  
Mary Montgomery, Assistant Prosecuting Attorney  
Chris Boyd, Data Processing  
Steve Glardon, Data Processing  
Ellis Shockley, Data Processing
Mr. Blackshear  
Page 2  
January 19, 2018

Cc:  Tyler Small, Administrative Services–Purchasing  
    Eric Armstrong, Domestic Relations Court  
    Jennifer Petrella-Ahrens, Domestic Relations Court  
    Bart Kincaid, Sheriff’s Office  
    Debra Harden, Recorder’s Office  
    Dana Brown, Clerk of Courts’ Office  
    Chris Williams, Coroner/Crime Lab  
    Ann Bryant, Commission Office  
    Edward McNachtan, Common Pleas Court  
    Amy Wiedeman, Administrative Services  
    News Media
AUTOMATIC DATA PROCESSING BOARD MEETING
January 8, 2018

PRESENT: Debra Harden for Willis Blackshear, 2018 Elect Chair
Karl Keith, Secretary
Dan Foley, Member
Dana Brown for Russell Joseph, Member
Carolyn Rice, Member
Steve Harsman, Member
Jim Dare for Judge Mary Katherine Huffman, Member
Tina Ratcliff, Records Management
Ed McNachtan, Common Pleas Court
Eric Armstrong, Domestic Relations Court
Adam Nelson, Environmental Services
Bethany Colby-Lauffenburger, Environmental Services
Matt Hillard, Environmental Services
Lynn Cooper, Treasurer’s Office
Kate Evans, Auditor’s Office
Larry Hartlaub, Auditor’s Office
Mary Montgomery, Prosecutor’s Office
James Alford, Data Processing
Steve Glardon, Data Processing
Ellis Shockley, Data Processing
Chris Boyd, Data Processing
Betty Upshaw, Data Processing Administrative Assistant

The January 8, 2018 Automatic Data Processing Board organizational meeting was called to order by the Secretary, Karl Keith. (A copy of the agenda is attached hereto for reference.)

The first item of business was the minutes from the December 13, 2017 meeting. Dan Foley made a motion for approval of the minutes as presented. Motion was seconded by Carolyn Rice. Motion carried unanimously.

The second agenda item was the 2018 Board organization. Karl Keith noted that by statute he is the Secretary of the Board. Before entertaining a motion for nominations for 2018 Chair, Mr. Keith informed Board members Willis Blackshear, the 2017 Chair, had communicated he was interested in continuing as Chair. Carolyn Rice then made a motion to nominate Mr. Blackshear as the 2018 Board Chair. The motion was seconded by Steve Harsman. Motion carried. After a brief discussion, Mr. Keith entertained a motion for nominations for 2018 Vice-Chair. Carolyn Rice moved to nominate Dr. Kent Harshbarger as Vice-Chair. Motion seconded by Dan Foley. Motion carried unanimously.

In the absence of both the 2018 elect Chair and Vice-Chair, Karl Keith continued to chair the meeting. Before proceeding to the next agenda item, Mr. Keith introduced Larry Hartlaub, the former Auditor
of Ottawa County, who is a new employee in the Auditor’s Office serving as an Assistant Auditor.

Agenda item number three was the adoption of the 2018 Board Calendar. The Board reviewed the proposed dates for the meetings and the cutoff dates for submitting request. Mr. Keith pointed out the May 9 meeting would be the day after the May 8 Primary Election. He asked if there were any concerns about the May 9 date. The members expressed no concerns. After further discussion, Carolyn Rice made a motion to approve the 2018 calendar for the ADP board meetings. Motion was seconded by Steve Harsman. Motion carried unanimously.

The last item of business, agenda item number four, was a request from the Environmental Services’ Solid Waste Department. Matt Hilliard, Assistant Director for Environmental Services, apprised Board members of the large capital project for the Solid Waste division which involves constructing a new operations center building including the acquisition of a new power feed into the main campus. Mr. Hilliard said the power feed includes a standby generator, and the data transition cables would be upgraded under the existing campus. He told Board members they were requesting their approval of the selection of Monarch Constructions for the communications and technology aspects of the new Solid Waste Operational Building Project. Mr. Hilliard informed them the total amount for the entire capital project would be $6,886,000.00; however, they were asking for the ADP Board’s approval of the hardware, software, and professional services portion of the project at a cost of $800,000.00. He briefly outlined the items in the contract that covered the communications and technology aspects of the project. Following a brief discussion, Carolyn Rice moved for approval of the request. The motion carried unanimously.

Before the meeting was adjourned, Carolyn Rice introduced Lynn Cooper, the new Chief Deputy in the Treasurer’s Office. There being no further business, Steve Harsman made a motion to adjourn the meeting. Motion was seconded by Carolyn Rice. Motion carried unanimously.

Respectfully submitted,

KARL L. KEITH, Secretary
Automatic Data Processing Board

KLK/bru
Attachment
Mr. Willis Blackshear, Chair  
Automatic Data Processing Board  
451 West Third Street  
Dayton, OH 45422

Dear Mr. Blackshear:

An Automatic Data Processing Board meeting has been scheduled for Monday, January 8, 2018 at 9:00 a.m. in the 6th floor Data Processing Training/Conference Room. The agenda will be as follows with supporting documentation attached.

(1) Minutes from the December 13, 2017 meeting

(2) DP Board Organization for 2018

(3) 2018 Board Calendar

(4) Environmental Services Solid Waste Department – hardware, software and consulting services for new Operational Center ($800,000.00)

Sincerely,

[Signature]

KARL L. KEITH, Secretary  
Automatic Data Processing Board

KLK/bru

Attachments

Cc: ADP Board Members  
James Alford, Data Processing Director  
Tina Ratcliff, Records Manager  
James Dare, Common Pleas Court Administrator  
Kate Evans, Auditor’s Office  
Mary Montgomery, Prosecutor’s Office
Cc:  Chris Boyd, Data Processing  
     Steve Glardon, Data Processing  
     Ellis Shockley, Data Processing  
     Tyler Small, Administrative Services-Purchasing  
     Bart Kincaid, Sheriff’s Office  
     Debra Harden, Recorder’s Office  
     Dana Brown, Clerk of Courts’ Office  
     Chris Williams, Coroner/Crime Lab  
     Ann Bryant, Commission Office  
     Edward McNachtan, Common Pleas Court  
     Amy Wiedeman, Administrative Services  
     Bethany Colby-Lauffenburger, IT-Environmental Services  
     News Media
To: James Alford, Data Processing

From: Jeffrey Jordan, Office of Emergency Management

Date: January 18, 2018

Subject: Data Processing Board Agenda Request

Montgomery County Emergency Management is requesting a special meeting of the Data Processing (DP) Board. We would like for the DP Board to approve the purchase of up to four radiation detection backpacks and up to 25 radiation detection pagers that will be purchased using the FY 15 Law Enforcement State Homeland Security Program (LE SHSP) grant funds. The radiation detection backpack purchase will not exceed $142,000.00, and the radiation detection pager will not exceed $98,000.00.

The radiation detection backpacks and radiation detection pagers are being purchased for Homeland Security Region 3 Law Enforcement Agencies. The radiation detection backpacks and pagers purchased for law enforcement officials in Ohio Homeland Security Region 3 would be used to detect the presence, source, and levels of radiation. These items will be used in part, during large public events, in order to keep a location secure from the threat of radiological weapons. The radiation detection backpacks and pagers both contain a motherboard and can analyze data on the spot that can later be downloaded to a computer.

Homeland Security Region 3 is an eight county region that includes Champaign, Clark, Darke, Greene, Miami, Montgomery, Preble and Shelby counties. Montgomery County Emergency Management is the Signatory Official for the LE SHSP grant.

There are no services to be provided by Montgomery County Data Processing staff regarding this procurement or maintenance. Should you have any questions or need additional information, please contact me at 937-224-8936. Thank you for your assistance in this matter.

Sincerely,

Jeffrey Jordan, Director
Montgomery County
Office of Emergency Management
<table>
<thead>
<tr>
<th>Information</th>
<th>Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item name</td>
<td>Personal Radiological Detectors (pager- alarm) FY15</td>
</tr>
<tr>
<td>Number of items</td>
<td>25-40</td>
</tr>
<tr>
<td>Maximum size</td>
<td>Height 5” / width 2”</td>
</tr>
<tr>
<td>Required accessories</td>
<td>Holder/carry, 1 test kit</td>
</tr>
<tr>
<td>Function</td>
<td>To identify the presence of radioactive material and alert officers.</td>
</tr>
<tr>
<td>Power source, battery life/run time</td>
<td>Battery, must be able to operate for 500 hrs between charges or replacement batteries</td>
</tr>
<tr>
<td>Maximum weight</td>
<td>Up to 10 ounces</td>
</tr>
<tr>
<td>Handheld/portable/installation needed</td>
<td>Portable</td>
</tr>
<tr>
<td>Safety precautions</td>
<td>Shock Resistant</td>
</tr>
<tr>
<td></td>
<td>Must vibrate to alert for high levels of radiation.</td>
</tr>
<tr>
<td></td>
<td>Must have a flashing light option that can be turned on and off for high noise environments.</td>
</tr>
<tr>
<td>Waterproofing required?</td>
<td>Must be water resistant</td>
</tr>
<tr>
<td>Case needed?</td>
<td>Yes-Holster for pager that can clip to belt</td>
</tr>
<tr>
<td>Digital/analog</td>
<td>Digital</td>
</tr>
<tr>
<td>Equipment compatibility requirements</td>
<td>N/A</td>
</tr>
<tr>
<td>Service contract needed?</td>
<td>Yes</td>
</tr>
<tr>
<td>Warranty required?</td>
<td>Standard</td>
</tr>
<tr>
<td>Shipping included in price?</td>
<td>N/A</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>Must be able to work in all types of environments and weather conditions.</td>
</tr>
<tr>
<td>Notes:</td>
<td>Must be able to store data for at least 24 hours and offload data onto a computer.</td>
</tr>
<tr>
<td></td>
<td>Must meet ANSI™ 42.33/1, 42.32 and IEC 62401 for level of detection and durability (all standards available at <a href="https://www.ansi.org/">https://www.ansi.org/</a>)</td>
</tr>
<tr>
<td></td>
<td>Must be able to detect both gamma and neutron</td>
</tr>
<tr>
<td>Information</td>
<td>Spec</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td>Item name</td>
<td>Backpack Radiation Monitors</td>
</tr>
<tr>
<td>Number of items</td>
<td>3</td>
</tr>
<tr>
<td>Maximum size</td>
<td>Height 25”/Width 10”</td>
</tr>
<tr>
<td>Required accessories</td>
<td>Headphone/Ear Piece, 1 test kit, hard case for storage</td>
</tr>
<tr>
<td>Function</td>
<td>Holder/carrier, 1 test kit</td>
</tr>
<tr>
<td>Power source, battery life/run time</td>
<td>To identify the radioactive material present within a wide area and alert officers.</td>
</tr>
<tr>
<td>Maximum weight</td>
<td>Up to 25 pounds</td>
</tr>
<tr>
<td>Handheld/portable/installation needed</td>
<td>N/A</td>
</tr>
<tr>
<td>Safety precautions</td>
<td>Must be able to work in all environments</td>
</tr>
<tr>
<td>Waterproofing required?</td>
<td>Must be water resistant</td>
</tr>
<tr>
<td>Case needed?</td>
<td>Yes</td>
</tr>
<tr>
<td>Digital/analog</td>
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</tr>
<tr>
<td>Equipment compatibility requirements</td>
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<td>Service contract needed?</td>
<td>Yes</td>
</tr>
<tr>
<td>Warranty required?</td>
<td>Standard</td>
</tr>
<tr>
<td>Shipping included in price?</td>
<td>N/A</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>Must be able to work in all types of environments and weather conditions.</td>
</tr>
</tbody>
</table>

Notes

- Must be able to detect Gamma and Neutron Radiation.
- Must meet ANSI N42.53 radiation level detection standards (available at https://www.ansi.org/).
- Must communicate wirelessly with a handheld device separate from the backpack in order to provide information to officers without removing the pack.
- Must be able to store data for at least 24 hours and offload data onto a computer.
- Must provide an audible alarm that delivers only into a headpiece so as not to alarm people nearby.
Radiation Detection Back Packs

Thermo Scientific PackEye GN2

General Information

The Thermo Scientific PackEye has been used by Federal, State, Local and International Homeland Security Law enforcement officials to detect the presence, source and levels of radiation in an area. They have been used all over the country and by international teams to keep locations secure from the threat of nuclear bombs or radiation dispersal devices otherwise known as RDDs or “Dirty” bombs.

![Hidden Source Detection by NNSA in Central Europe](image)

Product Specifications

The Thermo Fisher PackEye GN2 meets or exceeds all of the requested product specifications for SO 700022 Radiation Detection Backpacks.

Backpack specifications:

a. The PackEye is capable of identifying radioactive material as natural (NORM) or artificial (possible threat) present within a wide area and alerting officers. It is the preferred device for federal agencies and the US teams abroad for its sensitivity and lack of false alarms when covering wide area sweeps.

b. The PackEye is able to work in all types of environments and weather conditions. PackEyes are used all around the world from cold to hot climates and dry to wet environments. It does not use Sodium Iodide, Cesium Iodide or any temperature sensitive material as its detector that often produces unstable results in varying environments. It uses plastic scintillator which is very stable and can be used in any environment, even unstable or changing ones.

c. The PackEye has very large Gamma and Neutron radiation detectors far exceeding the sensitivity of the smaller backpacks. The Gamma detector consist of a 0.7L PVT detector capable of detecting minute amounts of artificial radioactive material, even...
in an elevated or changing natural background without false alarms. The Neutron detectors consists of two each 9"x9"x2" neutron scintillator detectors. The Neutron detectors exceed the federal detection standards that smaller detectors are unable to match.

Two 9'x9'x2" Neutron Panels

Large 0.7liter PVT gamma detector

d. The PackEye has a digital display screen on its PDA as seen below.

![Image of PackEye PDA](image-url)

Gamma Dose rate

0.065 μSv/h

Neutron Count rate

0.4 cps

e. The PackEye is water resistant and is capable of working in all environments. It is enclosed in a weather resistant hikers Backpack and has an additional rain cover. The detector materials are sealed and are also resistant to temperature changes and extremes. Rain cover shown below. Control module is rated IP65.
f. The PackEye weighs 17lbs and is 22.5" tall and 7.5" wide.

g. Each PackEye comes with an earpiece which automatically mutes the PackEye on use. Each PackEye comes with an accessory/test kit in case. It comes with its own monitor/display and its own backpack. Each PackEye comes with a 110v ac charger and a spate 12v charger that can plug directly into an auto power outlet (cigarette lighter socket) and another AC charger for remote charging of a spare battery. The PackEye kit comes with a Pelican wheeled hard case for storage and for use as a portal or a mobile detector in a car or boat. It is fully sealed and many customers use the PackEye while it is running in the case and monitor it remotely from the dash of the vehicle/boat with no physical connection through the Bluetooth connected PDA.

h. The PackEye exceeds ANSI N42.53 radiation detection standards for Gamma radiation, including low energy gamma detection which is critical for special nuclear materials (also known as SNM) used in nuclear weapons. This includes static and fast
mobile detection. The PackEye also exceeds the ANSI N42.53 standards for Neutron detection, which is also critical for SNM detection.

i. The PackEye communicates to a handheld device via a strong Bluetooth wireless with a range of over 50 yards. This handheld device is supplied as part of the kit and no cell or wireless data service is required with any additional reoccurring costs. A free app will also soon be available for use with iPhones or Android devices.

j. The PackEye’s remote device stores the survey data, alarm events and locations for at least 24 hours and is easy to off load data onto a computer.

k. The PackEye has a loud audible alarm, when required, that is automatically disabled by plugging in the headset, to not alarm people nearby, or the volume can be fully adjusted down to a muted level to operate more covertly.

l. The PackEye has a standard 1 year warranty and service contract. Extended contracts are available.
As chemical identification becomes more complex, the need for an advanced analyzer is greater than ever. The Thermo Scientific FirstDefender RM instrument enables hazmat, law enforcement, military and other first responders to obtain accurate chemical identification in seconds, even through sealed translucent containers.

**Thermo Scientific FirstDefender RM**

Non-Contact, Non-Destructive Chemical and Explosives Identification

The Thermo Scientific FirstDefender RM instrument is a rugged Raman spectrometer for rapid, accurate identification of unknown chemicals directly in the field. At 1.8 pounds (800g), the FirstDefender RM analyzer includes a large, vivid display for ease of use in bulky protective gear and can be easily transported into a hazard zone.

FirstDefender® analyzers are designed to meet the demanding requirements of elite military personnel and civilian first responders. They are deployed worldwide based on speed, performance, mixture analysis and intuitive user interface. Using the tagging feature, users can incorporate situational awareness for enhanced analysis of priority items.

**Key Benefits:**

- **Fast, accurate identification.** Based on Raman spectroscopy, quickly identifies unknown solid and liquid chemicals.
- **Built for field use.** MIL-STD-810G and IP67 tested and certified.
- **Improved automatic mixture analysis.** Sophisticated algorithms automatically determine presence of mixed and contaminated chemicals.
- **Point-and-shoot** identification. Operates directly through sealed glass or plastic containers, avoiding exposure to potentially harmful substances.
- **Extensive substance library.** Identifies explosives, toxic industrial chemicals (TICs), chemical warfare agents (CWAs), narcotics, precursors, white powders and more.

The FirstDefender RM instrument is not ITAR-restricted, though a U.S. Department of Commerce export license may be required for some countries.
Color-coded results require no user interpretation and provide rich content for faster, more informed decision making. Patented algorithms enable automatic mixture analysis, shown as a blue result, and tagged items are clearly highlighted on the result screen.

A Customer Support Legacy
When lives are on the line, you can rest assured that our highly trained customer support specialists are on call 24/7 and ready to assist with any inquiry—from basic operational questions to complex spectral analyses. Through our Reachback capability, users can easily upload a scanned spectrum which will be immediately routed to a spectroscopy expert. A Thermo Scientific scientist will call you within minutes with a preliminary assessment and then follow up shortly thereafter with a full identification. As always, it is our goal to provide the most dedicated customer support for our products.

Complementary and Confirmatory
Raman spectroscopy and FTIR spectroscopy, the underlying technologies in the FirstDefender and TruDefender® product families, are highly precise and selective optical techniques, each offering distinct advantages in specific applications. When used together, FTIR and Raman spectroscopy provide confirmatory results and a broader range of unknown substance identification—leading to better protection for the responder and the community.

Thermo Scientific FirstDefender RM

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>1.8 lbs (800g)</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>7.6 x 4.2 x 1.75 in (19.3 x 10.7 x 4.4cm)</td>
</tr>
<tr>
<td><strong>Use Mode</strong></td>
<td>Point-and-shoot through translucent containers; integrated vial holder</td>
</tr>
<tr>
<td><strong>Spectral Resolution</strong></td>
<td>7 to 10.5cm⁻¹ (FWHM) across range</td>
</tr>
<tr>
<td><strong>Working Distance</strong></td>
<td>~16 mm without nose cone; ~5mm with nose cone</td>
</tr>
<tr>
<td><strong>Laser Output</strong></td>
<td>Power Adjustable, 75 mW, 125 mW, 250 mW</td>
</tr>
<tr>
<td><strong>Survivability</strong></td>
<td>Independently tested for MIL-STD-810G and IP67 certification</td>
</tr>
<tr>
<td><strong>Exposure</strong></td>
<td>Manual, Automatic modes (5ms minimum)</td>
</tr>
<tr>
<td><strong>Scan Delay</strong></td>
<td>Optional; user-configurable delay up to 120 seconds</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Removable and rechargeable lithium ion battery or 123a (eg SureFire®) batteries; &gt;4 hours operation</td>
</tr>
<tr>
<td><strong>External Power Supply</strong></td>
<td>DC Wall Adapter, 12 V 1.25 A</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-4 °F to 122 °F (-20 °C to +50 °C) Continuous</td>
</tr>
</tbody>
</table>

Note: Complete test reports available upon request.
Responder and community safety are critical when analyzing potentially hazardous materials. The Thermo Scientific FirstDefender RMX instrument can be used as a handheld instrument or integrated onto a tactical robot, providing military and civilian first responders more flexibility and increased safety.

Thermo Scientific FirstDefender RMX
Down Range Chemical and Explosives Identification

The Thermo Scientific FirstDefender RMX instrument is a rugged Raman spectrometer for rapid, accurate identification of unknown chemicals including explosives, toxic industrial chemicals, precursors and more. Designed for flexible use modes, the FirstDefender® RMX device can be used as a handheld instrument with a fixed probe, through an integrated vial mode, or mounted to select tactical robots via an integration kit.

FirstDefender® analyzers are deployed worldwide by military personnel and civilian first responders, delivering exceptional chemical identification capability for a range of response scenarios. Using the tagging feature, users can incorporate situational awareness for enhanced analysis of priority items.

Key Benefits:
- **Fast, accurate identification.** Based on Raman spectroscopy, quickly identifies unknown solid and liquid chemicals down range.
- **Built for field use.** MIL-STD-810G and IP67 tested and certified.
- **Flexible use modes.** Handheld use or easily connected to select tactical robots using optional integration kit.
- **Improved automatic mixture analysis.** Sophisticated algorithms automatically determine presence of mixed and contaminated chemicals.
- **Point-and-shoot® sampling.** Operates directly through sealed glass or plastic containers, avoiding exposure to potentially harmful substances.

The FirstDefender RMX instrument is not ITAR restricted, though a U.S. Department of Commerce export license may be required for some countries.
Continuous Innovation

FirstDefender analyzers continue to evolve to meet the demanding requirements of elite military personnel and civilian first responders. Improved algorithms and tagging ensure that the instrument offers military organizations, hazmat teams, bomb squads and law enforcement personnel a unique tool for identification of various threats.

Complementary and Confirmatory

Raman spectroscopy and FTIR spectroscopy, the underlying technologies in the FirstDefender and TruDefender \* product families, are highly precise and selective optical techniques, each offering distinct advantages in specific applications. When used together, FTIR and Raman spectroscopy provide confirmatory results and a broader range of unknown substance identification—leading to better protection for the responder and the community.

Thermo Scientific FirstDefender RMX

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.0 lbs (919g)</td>
</tr>
<tr>
<td>Size</td>
<td>7.7 x 4.5 x 2.4 in (19.8cm x 11.4cm x 6.1cm)</td>
</tr>
<tr>
<td>Use Mode</td>
<td>Flexible: handheld with fixed probe; vial mode; or robot-mounted</td>
</tr>
<tr>
<td>Spectral Resolution</td>
<td>7 to 10.5 cm(^2) (FWHM) across range</td>
</tr>
<tr>
<td>Working Distance</td>
<td>-16 mm without nose cone; -5mm with nose cone</td>
</tr>
<tr>
<td>Laser Output</td>
<td>Power Adjustable, 75 mW, 125 mW, 250 mW</td>
</tr>
<tr>
<td>Survivability</td>
<td>Independently tested for MIL-STD-810G and IP67 certification</td>
</tr>
<tr>
<td>Exposure</td>
<td>Manual, Automatic modes (5s minimum)</td>
</tr>
<tr>
<td>Scan Delay</td>
<td>Optional; user-configurable delay up to 120 seconds</td>
</tr>
<tr>
<td>Battery</td>
<td>Removable and rechargeable lithium ion battery or 123a (eg SureFire(^\text{TM})) batteries; &gt;4 hours operation</td>
</tr>
<tr>
<td>External Power Supply</td>
<td>DC Wall Adapter, 12 V 1.25 A</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-4 °F to 122 °F (-20 °C to +50 °C) Continuous</td>
</tr>
<tr>
<td>Robot Integration</td>
<td>Integration kit required from robot manufacturer for mounting and universal control. Contact <a href="mailto:sales.chemid@thermofisher.com">sales.chemid@thermofisher.com</a> for more information about supported interfaces.</td>
</tr>
</tbody>
</table>

Note: Complete test reports available upon request.

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