

## Product Datasheet

# Pendar X10

## Handheld Raman spectrometer

With a standoff distance of up to 6 feet, Pendar X10 is a handheld Raman spectrometer that rapidly identifies hazardous chemicals. This includes highly fluorescent, dark, and sensitive materials that other handheld Raman instruments struggle with or even ignite. Pendar X10 saves time, improves safety, and prevents exposure to dangerous substances while reducing the risk of igniting explosive chemicals. Point and shoot to identify unknown chemicals, even deep inside drums and through containers or windows.

Innovative patented technology greatly reduces the explosion risk when identifying dark powder and explosives. Pendar X10's smart algorithm enables rapid identification of white powders (5 to 10 seconds) and dark and brightly colored materials (~30 seconds.) Pendar X10 lets users reach farther, stay safer, and measure faster.



### Features

- Handheld, up to 6 feet/2 meter standoff point-and-shoot measurement.
- Reach deep into a barrel through an opening, with no sampling required.
- Class 3R laser; no laser safety eye protection or special training required.
- Minimal ignition risk with black powder and sensitive primaries.
- Dark or highly fluorescent materials identified in <30 seconds, white powders in 5 to 10 seconds.
- Rapid analysis using advanced algorithms and powerful embedded processor.



# Specifications

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| <b>Standoff Distance</b>                           | Adjustable 1 to 6 feet (0.3 to 2 metres)   |
| <b>Instrument Portability</b>                      | Handheld: 11.1" x 7.4" x 5.1"<br>Weight: 4.4 lbs   |
| <b>Library</b>                                     | Explosives, illicit drugs, CWAs,<br>toxic industrial chemicals   |
| <b>Analysis Time (and<br/>Return to Readiness)</b> | Less than 10 seconds for most samples,<br>generally less than 30 seconds for<br>fluorescent or highly absorptive samples |
| <b>Method of Sampling</b>                          | In situ (optical measurement through<br>clear containers or enclosures)  |
| <b>Amount of<br/>Sample Required</b>               | Visible quantity   |
| <b>Eye Safety</b>                                  | Class 3R   |
| <b>Explosion Safety</b>                            | Does not ignite or burn dark material<br>(e.g. black powder, iron oxide, etc..)  |
| <b>Connectivity</b>                                | USB, WiFi  |
| <b>Operating Environment</b>                       | Indoors and Outdoors,<br>-4° to 104°F / -20° to 40°C   |
| <b>Power</b>                                       | Four (4) rechargeable RCR123A batteries<br>More than 2 hours operation   |
| <b>Mounting Options</b>                            | ¼"-20 tapped hole for tripod,<br>UGV Kit Available For Remote<br>Chemical Identification                                 |

Specifications are subject to change without notice.

For the most up-to-date specifications, please visit [www.hd3gamma.com](http://www.hd3gamma.com)

## Southern Scientific Limited

Scientific House, The Henfield Business Park  
Shoreham Road, Henfield, BN5 9SL, UK

**E-mail:** [info@southernscientific.co.uk](mailto:info@southernscientific.co.uk)

**Tel:** +44 (0)1273 497600

[www.southernscientific.co.uk](http://www.southernscientific.co.uk)

