



PROJECT PROFILE

DETECTION EQUIPMENT PRODUCT DEVELOPMENT

CLIENT CHALLENGE

Our client develops specialized analytical detection equipment that is sold to governments and agencies around the world for radioisotope detection and identification. The client foresees a demand for a handheld variation of their existing detection product line incorporating similar functionality and portability. This required New Product Development expertise in several stages of the New Product Development Cycle:

- Electrical/Electronics design
- Design for manufacturing
- Knowledgeable sourcing expertise
- Scheduling and Budgetary constraints

SOLUTION

Palladium was retained for our expertise in analytical detection equipment and the New Product Development field. The following tasks were performed to successful project completion:

- Electrical/electronics design for battery charging circuit, GPS, power supply, LVDS encoder/decoder redesign, redesign to minimize ESD susceptibility
- Validation of PCBs through standards based EMC, EMI, ESD pre-scans and testing

PROJECT HIGHLIGHTS

Palladium delivered the project within time and budget constraints due to our :

- Previous analytical detection product development experience minimized the development time.
- Knowledgeable COTS sourcing and experience dealing with OEM manufacturers.
- DFMA expertise in the electrical/electronics fields.
- Efficient integration with the client development team
- pilot documentation including drawings, BOMs, and new part entries

Palladium's work enabled the client to:

- Solve troublesome electrical issues prior to production launch
- Mitigate design risks through effective sourcing and OEM collaboration
- Provide a well documented path for product development.

