Osprey™ – Universal Digital MCA Tube Base for Scintillation Spectrometry

Description

The Osprey™ is a high-performance, fullyintegrated multi-channel analyser (MCA) tube base that contains everything needed to support scintillation spectrometry. Designed for both laboratory and field use, this one compact unit contains a high-voltage power supply (HVPS), preamplifier and a full-featured digital MCA. Osprey can be controlled through either USB or Ethernet with no need to purchase two separate units – an industry first. USB or Ethernet, there is only one cable connecting the Osprey to the control and data acquisition system.

For desk-top applications, power and all communications are handled by a USB 2.0 port. In situations where networking and/or remote access are desired, the Ethernet 10/100T port can be used which provides power and communications via power-over-Ethernet (PoE). Coupled with the powerful Genie 2000 software suite, the Osprey takes scintillation spectrometry to a new level. Just connect probe and Osprey, connect the Osprey to an available USB or Ethernet port, start the Genie 2000 software, and you are ready to acquire the spectrum, making this a true 'plug-and-play' solution.

The Genie 2000 software suite is a comprehensive environment for MCA control, data acquisition, display, and analysis. It provides independent support for multiple detectors, extensive networking capabilities, advanced data analysis, and comprehensive batch procedure capabilities. With the Genie 2000 programming libraries, the advanced user can develop custom applications using all available Genie 2000 features and user interfaces. An OS independent software development kit (SDK) with examples is included with every Osprey and can be used without Genie 2000.

In addition, a diagnostic web graphical user interface (GUI) application is supplied with the Osprey, providing MCA and probe status information, network setup, and firmware upgrade functionalities.

Osprey features support for all commonly used spectrometry modes – PHA, MCS, SCA, MSS, List, and Time-stamped List – unmatched by any other tubebase MCA on the market. Osprey provides a level of performance superior to many available desk-top MCAs.

Features and Benefits

- All-in-one HVPS, preamplifier, and digital MCA.
- Compatible with standard 14-pin scintillation detectors using 10-stage PMT's including NaI(Tl) and $LaBr_3$(Ce).
- Optional temperature-stabilised NaI probe.
- USB 2.0 connection fro PC 'plug-and-play.'
- Ethernet 10/100T (PoE) connection for network applications.
- PHA, MCS, SCA, MSS, List, and Time-stamped List modes.
- Fully supported by Genie™ 2000 software and programming libraries.
- Software development kit with examples.
- Diagnostic web GUI.
- Compatible with Model 727 shield.

Experience & Expertise

LabLogic

Technical Specification

Computer Requirements

The minimum computer requirements are those specified for the current version of the Genie 2000 software.

Power

Main power will be supplied by either the USB port or IEEE 802.3af-compliant Power over Ethernet (PoE).

Power Comsumption USB:	<2 Watt
Power Consumption PoE:	<3 Watt

Physical

Diameter:	62 mm (2.44 in.)
Length:	108 mm (4.25 in.)
Weight:	280 g (9.9 oz)

Environmental

Temperature:	-10 to 50°C (+14 to +122°F)
Humidity:	85% non-condensing

Meets the environmental conditions specified by EN 61010, Installation Category I, Pollution Degree 2.

LabLogic

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