γstream

Active, stand-alone, fully featured MCA tube base for scintillation spectroscopy

Gamma Spectroscopy goes wireless with the innovative CAEN tube base digital MCA: Untie your detector and get on-line!

Features

- Fully stand-alone MCA including high voltage power supply, preamplifier, battery and data-storage on SSD.
- Compatible with scintillation detectors as NaI(Tl) and LaBr$_3$(Ce) using standard 14-pin and 10-stage PMTs
- Different acquisition modes available: PHA, PHA with time stamp, MCS, SCA and signal inspector
- Software selectable coarse and fine gains
- ARM based CPU for unattended operations
- Gain stabilizer based on natural or calibration radioactivity
- Wire and wireless connectivity through USB, Ethernet, Bluetooth and WiFi
- Front panel cover against dust and rain for outdoor operation
- Front panel auxiliary digital I/O connectors for synchronization, external trigger, coincidence/anticoincidence modes, veto, MCS, SCA
- Supported by CAEN MC^{2}Analyzer software GUI
- Supported by GammaTOUCH application for smartphones or tablets with Android OSs

γstream is an active MCA integrated in a 14-pin PMT base for gamma-ray spectroscopy with scintillation detectors, suited for portable and mobile spectrometry. It integrates high voltage power supply, preamplifier and digital MCA. The embedded CPU runs an OS able to execute custom routines for automatic wireless spectroscopic analysis or data monitoring.

Featured with battery and data-storage it is able to run without external connection or control.

The flexibility on data logging modes makes γstream suitable for most survey situations.

It may acquire and record data in different modes: PHA, time stamped list mode, MCS, SCA, signal inspector. γ stream can also operate outdoor thanks to a front panel cover protecting from water and dust.

Wireless and wired connection interfaces are available: WiFi, Bluetooth, USB and Ethernet. γ stream can also be integrated in more complex systems thanks to auxiliary I/O connectors.

γ stream is suited for a variety of environment thanks also to the software suites GammaTOUCH and MC^{2}Analyzer, both provided with user-friendly GUIs. GammaTOUCH can run on smartphones or tablets with Android OSs, providing an immediate and easy data acquisition control. It provides georeferenced and time-stamped histograms logging the GPS location and time of the mobile device. On the other side MC^{2}Analyzer can be run on recent Windows, providing the user with histogram analysis tools.
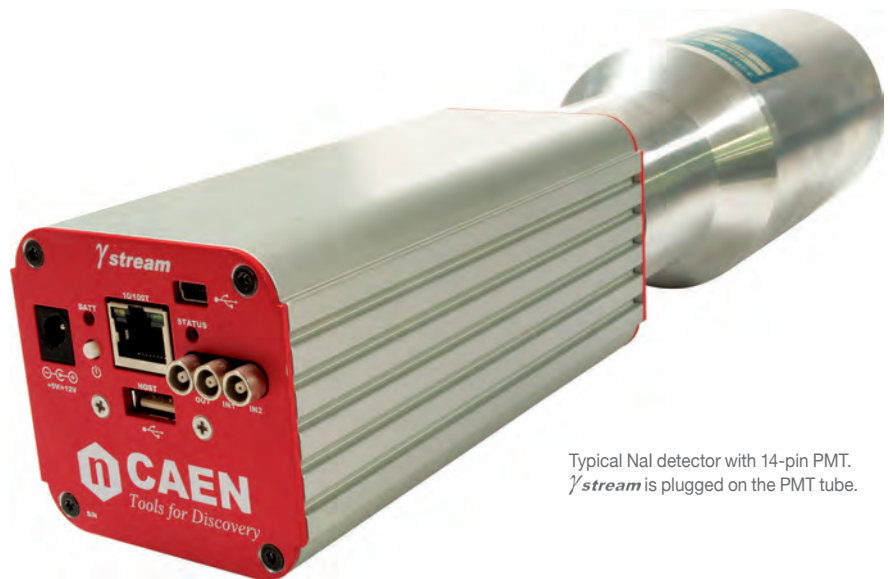
Software

GammaTOUCH

GammaTOUCH is a software application for Android OSs running on personal devices like smartphones or tablets. It is designed as an easy-to-use assistant for outdoor operations and provides an immediate control of γ stream. Energy spectra can be displayed, and statistics can be monitored runtime. Through the GammaTOUCH it is possible to integrate the location and time of the mobile device GPS and the time-stamped histogram.

All CAEN Control Software are available for *free download* on the web site.

γ stream rear view

Typical NaI detector with 14-pin PMT. γ stream is plugged on the PMT tube.

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www.caen.it/news

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Tools for Discovery