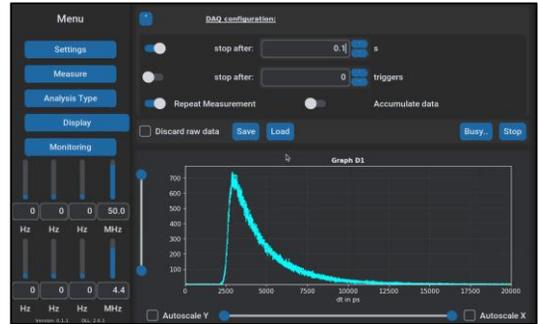


SPC-Compact

A Portable Photon Correlator

Fully Integrated Time-Tagger Unit

SPC-Compact integrates the **top-of-the-line measurement capabilities** of your favourite Becker & Hickl GmbH time-tagger in a **standalone processing** unit. Perform advanced TCSPC experiments with the flexibility of an oscilloscope. Convenient **touch-screen control, on-the-fly data visualisation** and an **intuitive GUI** make SPC-Compact ideal for those that want to focus on the science.



Versatile And Effortless

SPC-Compact comes in multiple versions, with **timing precision of below 1 ps**, recording rates of **up to 500 MHz**, and up to **8+1 simultaneous channels**. Ideal for everything from **Quantum Correlation** measurements to **fluorescence lifetime FRET**.

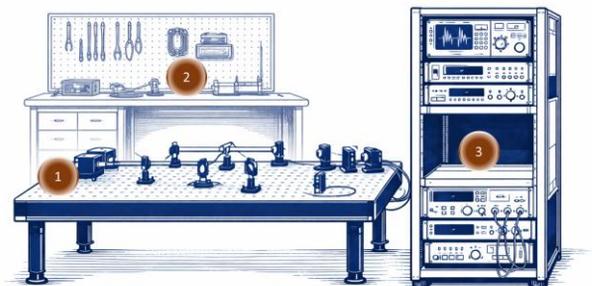
Fully compatible with all typical **geiger mode single photon detectors**: SNSPDs, APDs, (hybrid-) PMTs, etc.

Synchronize multiple units with **GPS, White GPS, White Rabbit** or similar interfaces.

Flexible Without Compromise

Whether in the middle of an extended optical bench or on a mobile trolley shared between labs, SPC-Compact provides direct and real-time **feedback where other monitors are unavailable**.

Enhanced accessibility through USB and LAN: log on from another PC on the other side of the lab or from the comfort of the office.



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Becker & Hickl GmbH



FULLY INTEGRATED Time-Tagger SPC-Compact

SPC-Compact is a **fully standalone single photon counter** with the **best available time-tagging** performance and the **ease of use of an oscilloscope**. Ideal for both fast-paced research and in situations where a classical TCSPC solution is too bulky, **without sacrificing time-tagging performance**. Make your research life more dynamic with SPC-Compact.



Key Specifications:

- Down to 0.2 ps timing resolution*
- Down to 0.8 ps timing jitter (RMS)**
- Up to 500 MHz per channel peak count rate***
- Up to 140 MHz sustained transfer rate (all channels)*** to internal buffer
- 64 GB internal buffer

Key Interfaces:

- On-board touchscreen
- 1GB Ethernet (remote control/data)
- Up to 8 timing channels + 1 sync reference
- GPS interface
- USB 3.0 mass storage
- USB 2.0 (remote control/data)

Key Measurement Options:

- Time-Tagged Event Stream
- TCSPC luminescence decay
- Live Auto-/Cross-Correlation

Pair SPC-Compact with:

Compact fluorescence lifetime spectrometers



Multichannel detectors for quantum optics



and many more.

* High precision model
** $\sigma/\sqrt{2}$ single channel gaussian equivalent
*** High rate model

 Flip for more!

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