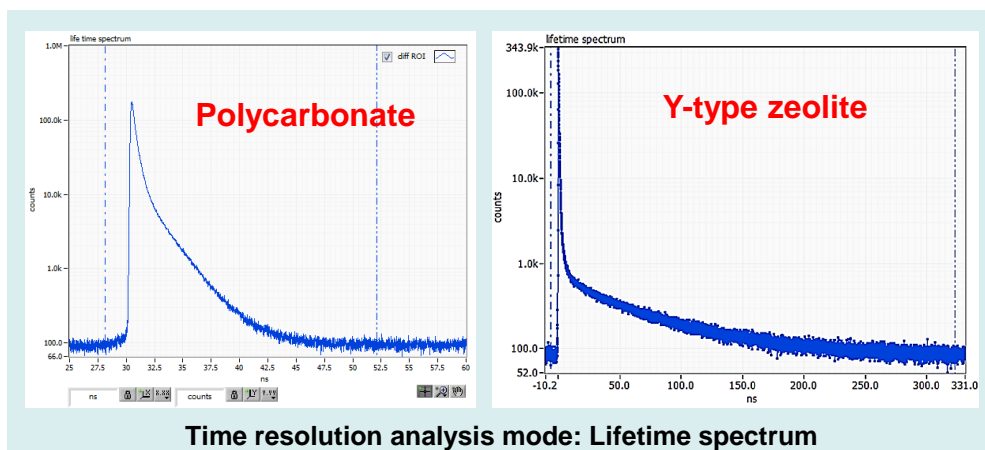
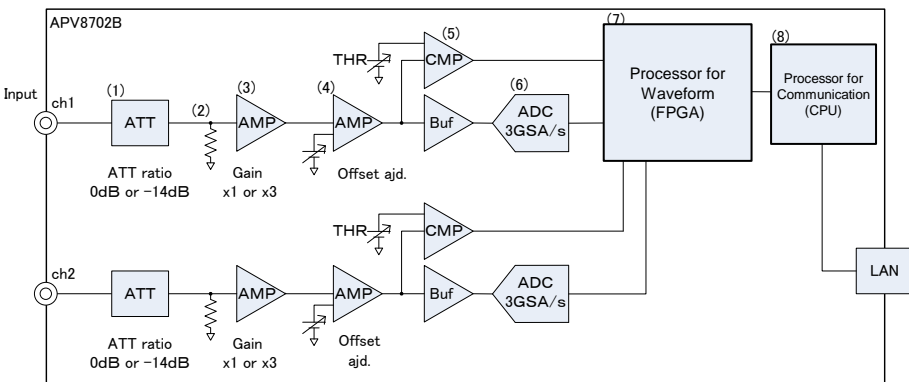


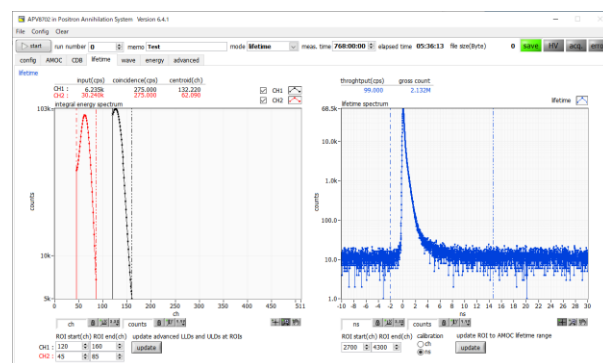
This is a spectrometer for time analysis equipped with high-speed 3GHz ADC with each CH. Traditionally, the time analysis needed several radiation measurement module, such as differential CFD, Delay, TAC, MCA, etc. The APV8702 has integrated them. It is sampling the pre-amplifier signal from detector by high-speed ADC and then, it perform the time analysis by FPGA. An operation result is transferred to PC via Ethernet. It is mainly using as **Positron Annihilation Lifetime Spectroscopy (PALS)**.

### Block diagram



### Specifications

Input	2 channel with SMA connector, 50 ohm
ADC	3GHz, 8-bit
Rise time	0.5 ns
Input range	340 mVp-p / 1.7 Vp-p (Max.)
Offset	±170 mVp-p / ±0.85 V
Time range	< 1100 ns (8192 ch) *10.4 ps / ch to 166.6 ps / ch
Communication I/F	Ethernet (TCP/IP)
External I/O terminal	LEMO connector: VETO and GATE input SMA connector: CH1 and CH2 discriminator output
External Dimensions	VME 1 width W: 20 mm x H:262 mm x D:187 mm
Weight	Appx. 400g



Window of data acquisition application software

**Command manuals can be provided**

\*Images is for illustration purpose.  
\*Please note that contents may change without prior notice.

