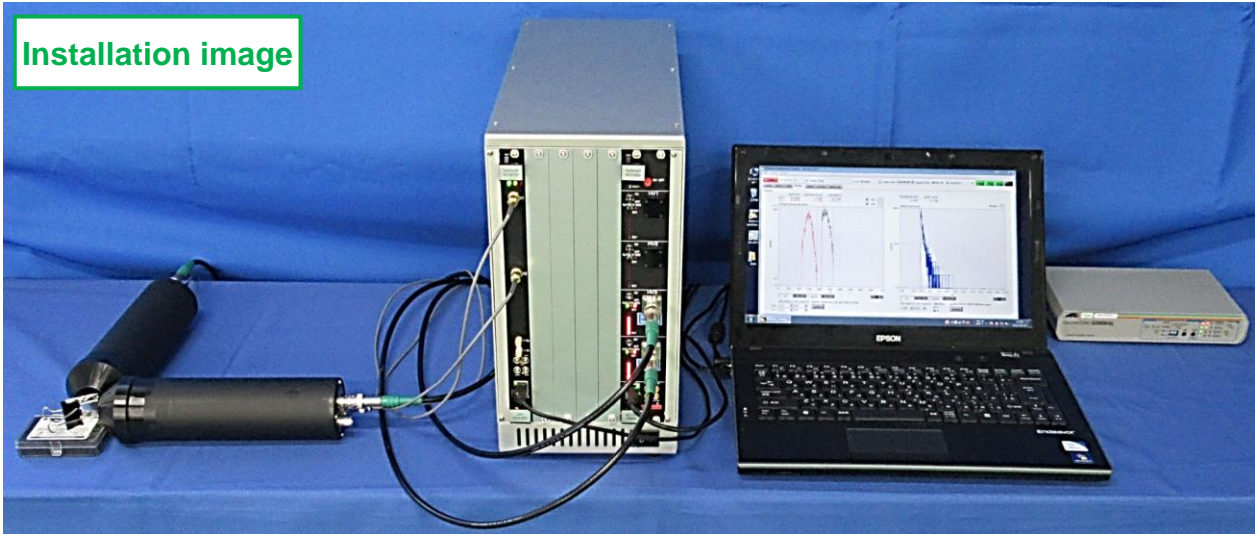
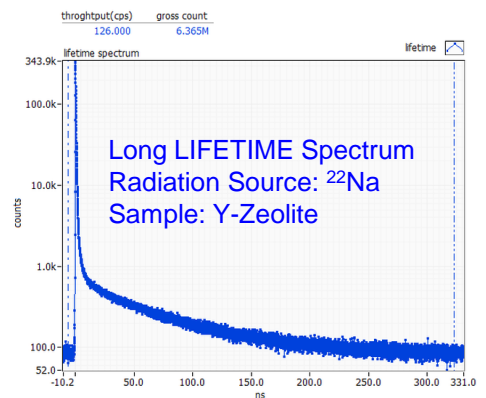
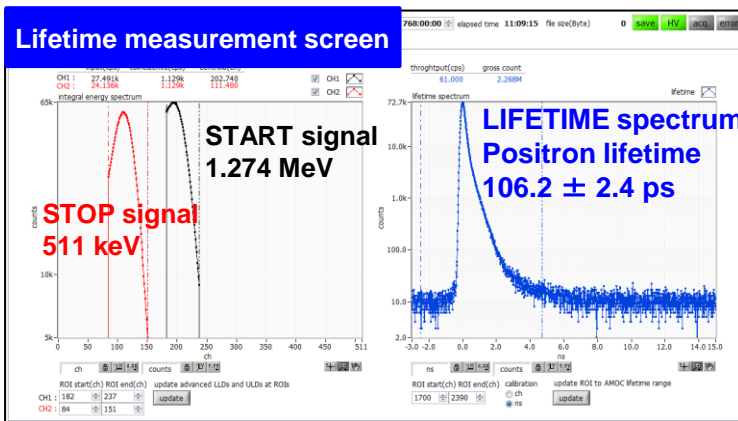


The measurement and power supply equipment required for positron annihilation measurement, which can analyze nanoscale spatial structures at the molecular level, is now integrated into one. In the lifetime measurement, high-speed pulse signals from two BaF² scintillators are captured by a 3GSPS board to calculate the lifetime time.

Installation image



ADC	2 CH 3 Gsps 8-bit (for LIFETIME measurement)
Time resolution	FWHM < 180 ps
Measurement range	< 80 ns (min. time per ch. 10.2 ps) < 1100 ns (max. time per ch. 166 ps)
LIFETIME	106.2 ± 2.4 ps Positron lifetime Standard material stainless steel 1.62 ± 0.05 ns Ortho-positronium lifetime Standard Material Quartz Glass
High-voltage	2 CH, max. - 4000 V (max. 1 mA) per CH (for photomultiplier tube)
Communication I/F	Ethernet (TCP/IP)
Accessories	Application for data acquisition and control, switching hub, signal cables (2), high-voltage power cables (2) and LAN cables (3)
Required items	BaF ₂ detectors (2), Radiation source ²² Na, Application for lifetime analysis and Computer
Outer dimension	Height 320 x Width 170 x Depth 400 (mm)
Weight	About 7400 g



Radiation Source: ²²Na
Sample: Standard material stainless steel

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

