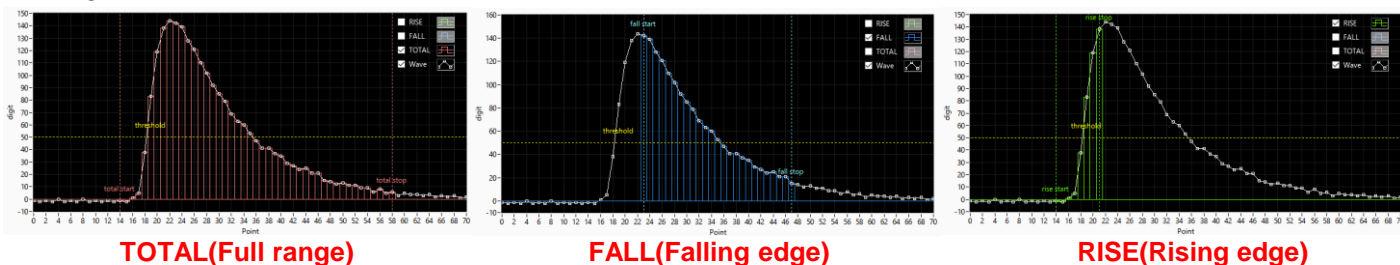


Features

For the waveforms collected on the DPP board, integrate the specified ranges individually for **TOTAL (Full range)**, **FALL (Falling edge)**, **RISE (Rising edge)** *see the figure below, and send it as list data to the PC via the Ethernet forward. It can display a 2D histogram based on the integration result. The object of the vertical and horizontal axes of the histogram can be selected arbitrarily (eg. horizontal axis FALL / TOTAL, vertical axis FALL), it is also possible to extract a specified range of data and display a one-dimensional histogram.

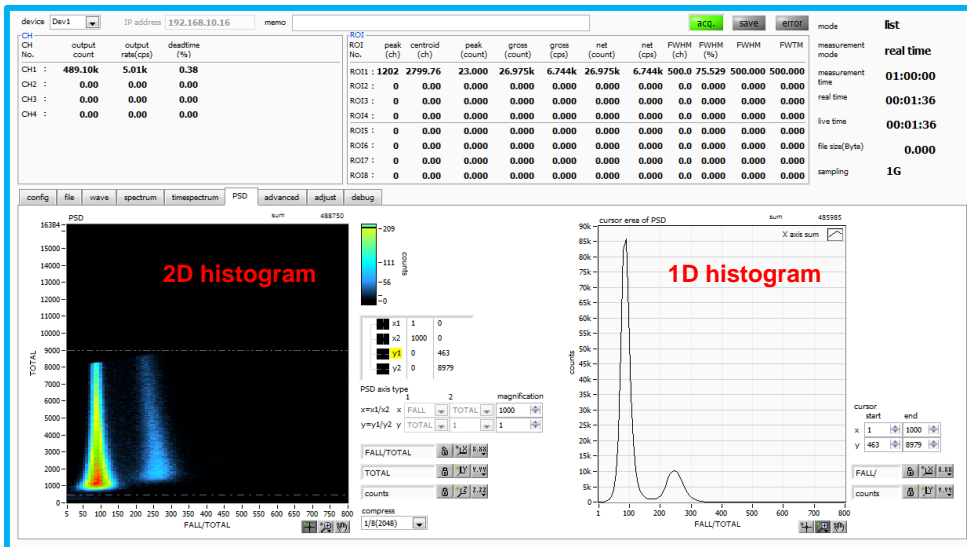


List data structure (1 event: 128 bits)

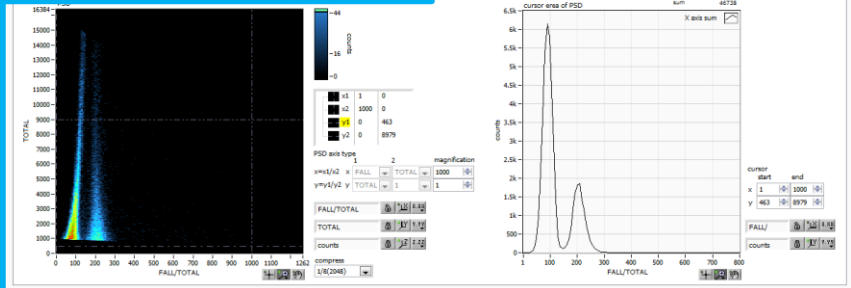
*TDC Time resolution Δt : 3.9 ps (1 Gsps)
7.8 ps (500 Msps)

	127	111	95	79	15	12	0
Event#1	TOTAL[15..0]	FALL[15..0]	RISE[15..0]	TDC[63..0]	CH#[2..0]	QDC[12..0]	
Event#2	TOTAL[15..0]	FALL[15..0]	RISE[15..0]	TDC[63..0]	CH#[2..0]	QDC[12..0]	
...							
Event#n	TOTAL[15..0]	FALL[15..0]	RISE[15..0]	TDC[63..0]	CH#[2..0]	QDC[12..0]	

Measurement example

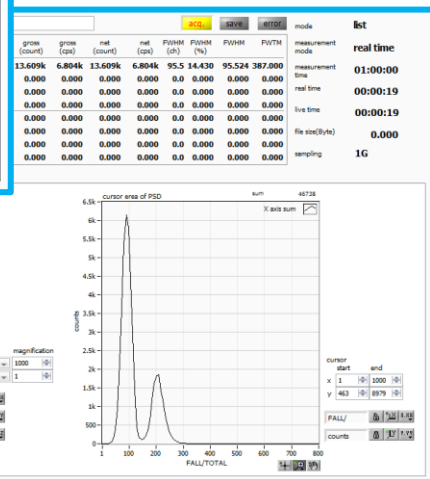


In the case of stilbene scintillator ($\phi 50.8 \times 50.8$ mm, PMT:H3378-51)



In the case of Organic liquid scintillator (NE213, PMT:R4143)

[ENVIRONMENT]
 Digital Pulse Processor:
 APV8104-14
 (1 Gsps, 4 Ch., 14-bits)
Radiation source:
Cf-252 (Californium)



*Images is for illustration purpose.

*Please note that contents may change without prior notice.

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