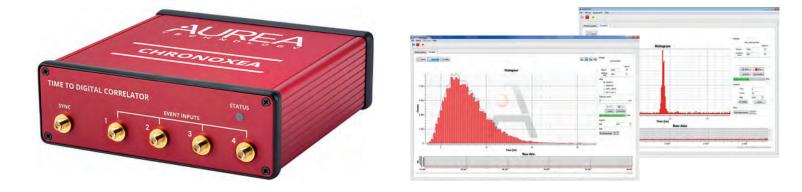


CHRONOXEA Time Correlation module



Picosecond resolution



The CHRONOXEA is a stand-alone Time Correlated Single Photon Counting (TCSPC) module. It features 1 start channel and 4 independent stop channels to perform time correlated measurements with a resolution of 13 ps on measurement range up to 1 second.

In addition, the CHRONOXEA offers a PC connection via its USB interface. Its ergonomic Graphical User Interface allows the user to manage the settings and display the measured data. Moreover, the DLL libraries compatible with the most well-known programming languages, such as LabVIEW and C++ are also provided.

Very well-designed, the CHRONOXEA is fully compatible with all commercial single photon avalanche photodiode detectors (SPAD) modules. The modern interface and the flexibility of the CHRONOXEA makes it your essential TCSPC instrument for any time-correlated measurements.

Features

- 13 ps time resolution
- 1 start channel
- 4 independent stop channels
- Dual TTL/NIM compatibility
- Time Tagging
- Lifetime
- USB interface
- DLL Libraries : LabVIEW, C++, Python

Applications

- TCSPC measurements
- Lifetime measurements
- FLIM microscopy
- Coincidence measurements
- Geiger-mode LIDAR
- Optical fiber sensing

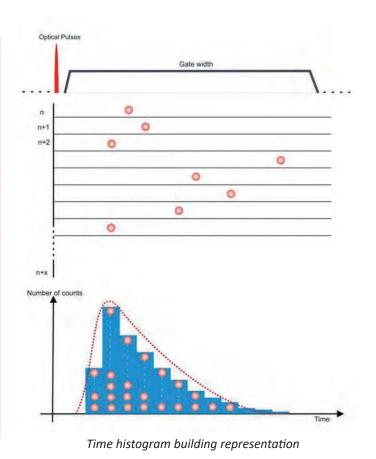
Options

- 2 channels
- 4 channels



TECHNICAL SPECIFICATIONS

Time Correlation					
Start channel	1 channel				
Stop channels	4 independent stop channels				
Bin Width	13 ps				
Time Resolution	13 ps				
Measurement range	From 0 to 1 sec				
Data transfer rate	1 x 10 ^e correlations/channel/sec				
Max sync. rate (Start)	4 MHz				
Max event. rate (Stop) : - Continuous mode - Burst mode* Min gate width input	4 MHz/stop channel 200 MHz/stop channel 4 ns				
Measurements	Lifetime measurements Time Tagging Antibunching measurements				
Input/Output - Mechanical - Environmental					
Computer Connection	Mini USB 2.0 type B				
Sync (IN) - Start	SMA - Dual TTL/NIM compatibility				
Events inputs (IN) - Stops	SMA - Dual TTL/NIM compatibility				
Dimension (LxWxH)	160 x 165 x 52 mm³				
Weight	< 1 kg				
Power consumption	< 10 W				



*Burst mode : burst of 15 succesive events

OTHER PRODUCTS : COMPLETE QUANTUM SYSTEMS

AUREA Technology also provides complete Quantum Optics systems with Entangled Photon Sources, Photon Counters, Timing Electronics and Software. Both 1550 nm and 810 nm versions are available.



Complete Quantum instruments suite

SOFTWARE INTERFACE



The software interface allows adjusting the synchronization, the parameters and displaying the temperature and live photon count. DLL libraries compatible to the most well-known programming languages are also provided.

ORDERING INFORMATION	
CHRONOXEA_X X 2 : 2 channels 4 : 4 channels	
Please contact us for custom solutions and options	

NOTE			

DISCLAIMER

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