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EXPANDED WAVEFORM MEMORY IN BENCHTOP ARBITRARY WAVEFORM GENERATOR

Blog Post

The Berkeley Nucleonics Model 670C Arbitrary Waveform Generator has a new Waveform Memory Module which allows up to 512Mpts Waveform Memory in a benchtop research instrument. The doubling of memory means more complex waveforms are readily produced giving expanded testing opportunity to the R&D or Test Engineer in the lab.

Large waveform memory is important in an arbitrary waveform generator because it allows you to create and store long and complex waveforms that can simulate realistic signals or test various scenarios. The larger the memory, the longer the play time of the waveform before it repeats. “Longer waveform complexity is useful for demanding applications such as radar, communications, quantum computing, and optical modulation”, comments David Brown, Company President.

The Model 670C is well suited as a Baseband Generator as well. The Arbitrary Waveform Generator is used to produce a time-domain signal that can be applied to an external RF modulator. For simple signals in which you generate pulses by controlling the carrier envelope, the Model 670C single output can be applied to an amplitude modulator (AM). If you are working with a carrier that is modulated in phase or frequency, the Model 670C offers two channels which can be applied to an IQ modulator.

The Model 670C starts at about \$12,000 for a Dual-Channel system and delivers performance and a feature set unparalleled in the entry level test equipment field. Learn more at the Model 670C's product page, linked [here](#).



NOW 512M
WAVEFORM
MEMORY

Features

- 2 or 4 Analog Channels
- 600 MS/s (1.2 GS/s with x2 Interpolation)
- 16-bit Vertical Resolution
- Up to 12Vp-p into 50Ω load
- 180 MHz Bandwidth
- Up to 256Mpts Waveform Memory per Channel
- 8 Digital Channels in synchronous with analog Generation

Applications

- Aerospace and Defense
- Institute and University Research
- Semiconductor Tests
- Automotive
- IoT



Model 670C | 180 MHz 600 MS/s
Arbitrary Waveform Generator

For technical questions regarding the Model 670C, please contact Ed at edgar.guzman@berkeleynucleonics.com

For questions regarding our press releases, please contact Alyssa at alyssa.thomas@berkeleynucleonics.com

About Berkeley Nucleonics Corporation:

Berkeley Nucleonics Corporation (BNC) is a leading manufacturer of precision electronic instrumentation for test and measurement, radiation detection, nuclear research, and RF/microwave research. From signal generators to spectrum analyzers, we offer the widest range of signal generation and analysis tools from a single manufacturer. Our application engineers are always available to discuss your specific needs. BNC happily offers product demonstrations from a large demo stock.

Our corporate headquarters is in San Rafael, California, with additional manufacturing facilities and sales offices located throughout the United States.

We maintain an international network of manufacturer's representatives—including Optilas, Canberra Packard, ORTEC, Coherent, and Seiko—to provide for precision instrumentation needs globally.