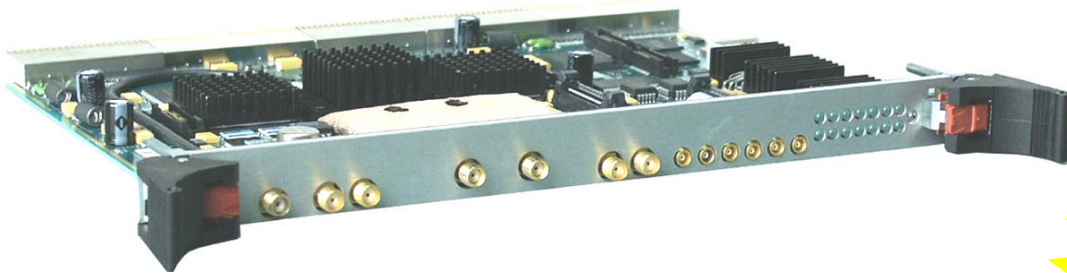


# GUZIK PRODUCT BULLETIN

## Arbitrary Waveform Generator AWG-5000



**Preliminary**

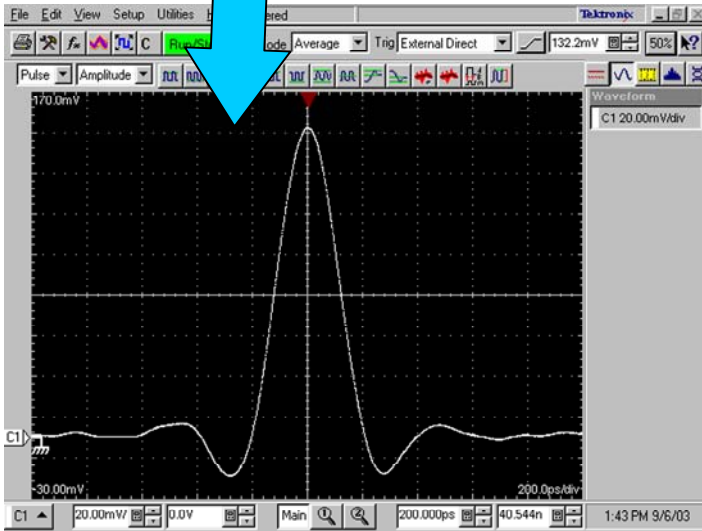
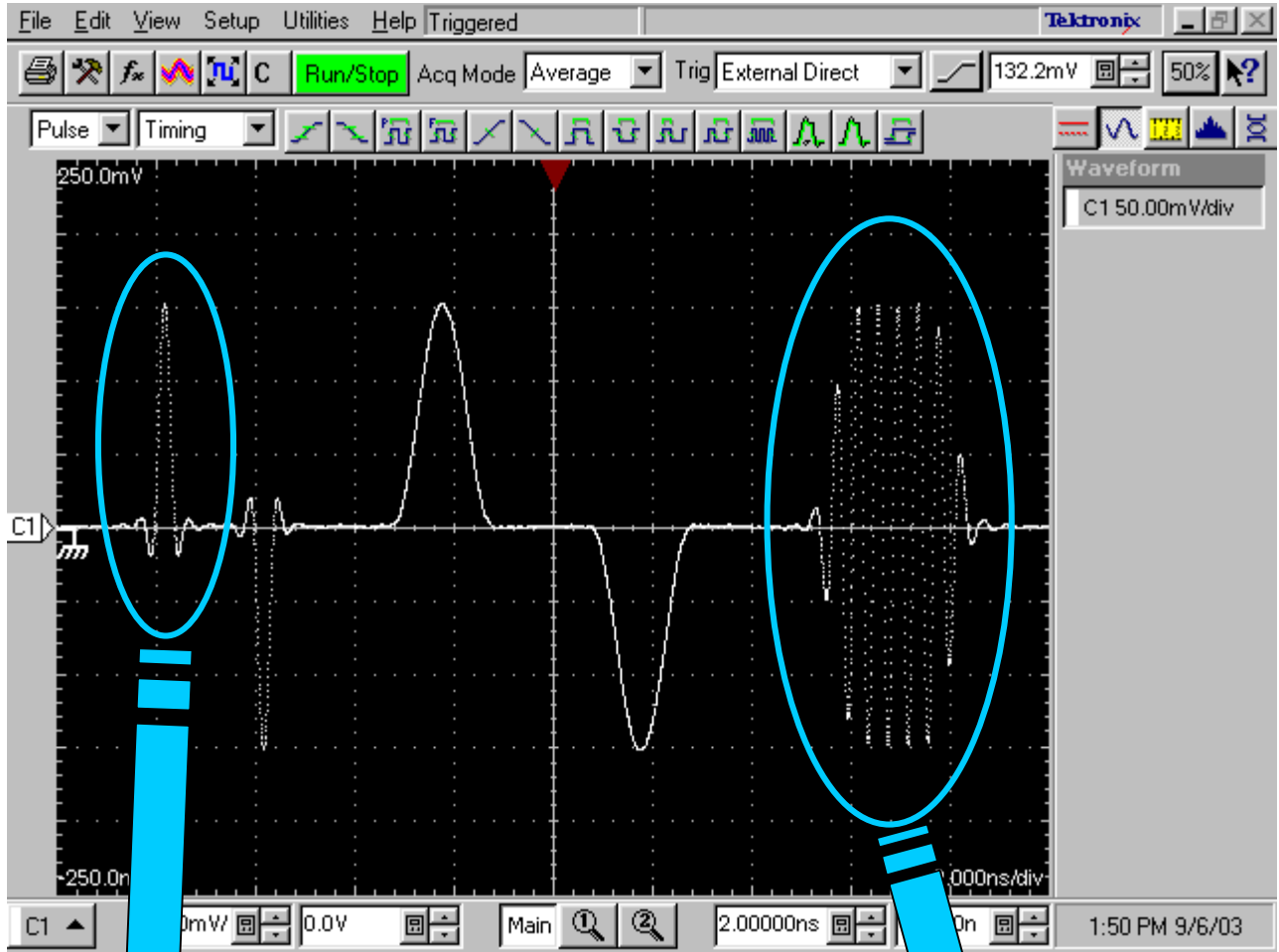
- **Disk drive signal simulation with data rate up to 5 Gbit/sec**
- **Up to 2.5 GHz analog bandwidth in synchronous mode**
- **Up to 2 GHz analog bandwidth in asynchronous mode**
- **Up to 5 GHz sampling rate**
- **10 Bit resolution**
- **Does not require external filters**
- **Up to 180 Msamples random waveform**
- **500mV (pk-pk) differential output, 50 Ohm termination**
- **Two programmable digital markers**
- **Internal noise generator:**
  - White noise 1MHz – 2 GHz**
  - Flatness  $\pm 3$  dB**
  - Output level 0 dBm to – 32 dBm in 0.5 dB steps**
- **Standard signal library**
- **Graphical waveform editor**
- **Data import in CSV format**
- **Possibility to load data from ADC-10000 Data Acquisition Module in order to generate captured waveforms**
- **External trigger**
- **Frequency resolution (synchronous mode) better than 1 Hz**
- **Single PCI module**

*NOTE: The arbitrary waveform generator works together with the Reference Clock Generator (also a single PCI module).*

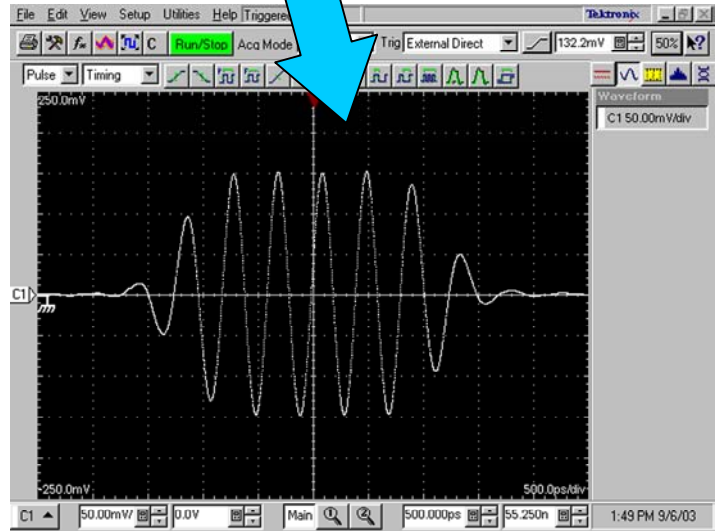
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# AWG-5000 Output Waveform, Synchronous Mode, 5 GHz Clock



Pulse Response, Pulse Width 230 psec



Sine-Wave Burst 2.5 GHz. Rise/Fall time 1 nsec

