

AFG2021 Arbitrary/Function Generator Fact Sheet

Full Featured Bench Top Arbitrary Waveform Generation

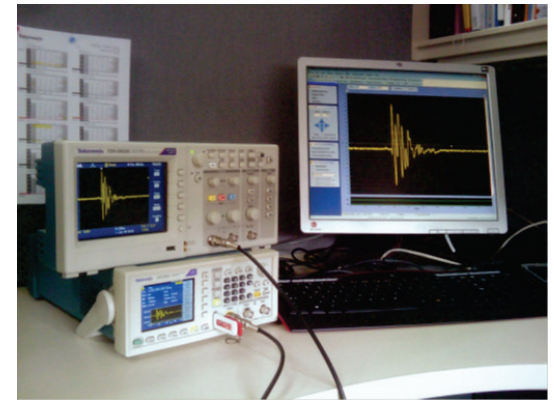


Features

Benefits

1 uHz to 20 MHz frequency range	Covers most use cases in low end R&D, education, and ATE systems.
250 MS/s sample rate and ± 1 ppm time base	Generate waveforms with fine timing resolution and high stability.
14 bit vertical resolution and 1mVpp	Provides best-in-class signal fidelity to create high resolution/low distortion waveforms
3.5 in color TFT display	The crystal clear display shows waveform and relevant parameters in text and graphic modes, giving you full confidence of the instrument settings, letting you focus on getting your job done.
AFG3000 similar UI	AFG3000 users can migrate to the AFG2000 without having to learn how to use an new user interface.
2U height and half rack width form factor	Fits both bench top and rack mount applications. Save valuable bench space by stacking it on other Tektronix bench instruments.
ArbExpress™ and Signal Express software	Create and modify waveforms with ease - import waveforms seamlessly from your Tektronix oscilloscope or create them using the ArbExpress equation editor, free hand tool, point draw tool or waveform math input. Use the intuitive drag-and-drop interface for basic instrument control, data logging, data analysis, measurement trending and documentation.
Standard 3 year warranty	Reduce customer's risk of line down and time-to-market delays.

Easily Recreate Real World Signals



Capturing real world signals with Tektronix oscilloscopes and replicating them has never been easier with the AFG2000

Featuring:

- 20 MHz sine wave, 10 MHz square/pulse waves
- 250 MS/s sample rate for arbitrary waveforms
- 1 channel with floating output from ground
- 4 built-in 128Sa memory for arbitrary waveforms
- 10 Vpp amplitude into 50 Ω load
- USB host on front panel for arbitrary waveform and instrument settings save/recall
- USB device and optional GPIB, LAN interfaces for arbitrary waveform download and remote control from a PC
- Modulation, sweep and burst modes
- Built-in noise generator to add noise onto signals
- Pulse generator with independently variable leading and trailing edge times
- Trigger input/output and reference clock input enable synchronization of the instrument to scopes or other AFG's
- 8 selectable user interface languages

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Key specifications and ordering information

Model	Channels	Sample Rate	Memory Depth	Output Bandwidth	Amplitude (into 50 Ω)
AFG2021	1	250 MS/s	128 K	20 MHz	10 mV _{p-p} to 10 V _{p-p}



Standard Accessories
<ul style="list-style-type: none"> • User Manual • Power Cord • USB Cable • CD-ROM with Programmer Manual, Service Manual, Labview and IVI Drivers • CD-ROM with ArbExpress® Software • NIST-traceable Calibration Certificate.

Recommended Probes, Accessories, and Services
RMU2U Rackmount kit
013-0345-00 Fuse adapter, BNC-P to BNC-R
159-0454-00 Fuse set, 3 pcs, 0.125 A
012-0482-00 BNC cable shielded, 3 ft.
012-1256-00 BNC cable shielded, 9 ft.
012-0991-00 GPIB cable, double shielded
011-0049-02 50 Ω BNC terminator

Configuration option
Opt. GL GPIB and LAN interfaces

Service Options
Opt. C3 Calibration Service 3 Years
Opt. C5 Calibration Service 5 Years
Opt. D1 Calibration Data Report
Opt. D3 Calibration Data Report 3 Years (with Opt. C3)
Opt. D5 Calibration Data Report 5 Years (with Opt. C5)
Opt. R5 Repair Service 5 Years
Opt. R5DW Repair Service Coverage 5 Years (starts at time of customer instrument purchase)

Key Applications	Benefits
<ul style="list-style-type: none"> ▪ System design validation 	<ul style="list-style-type: none"> ▪ The modulation and sweep modes provide signals to validate circuit functionality for filters, amplifiers and demodulators
<ul style="list-style-type: none"> ▪ Replicate sensor signals or other missing system inputs 	<ul style="list-style-type: none"> ▪ Simulate both simple and complex signals with the AFG2021. ▪ Easily create and modify custom waveforms with ArbExpress™ software.
<ul style="list-style-type: none"> ▪ Device stress testing 	<ul style="list-style-type: none"> ▪ Test the boundaries of your device-under-test by adding noise, jitter and other anomalies.
<ul style="list-style-type: none"> ▪ Education and training 	<ul style="list-style-type: none"> ▪ Intuitive user interface lets the students/trainees quickly get experiments done and learn the class material.
<ul style="list-style-type: none"> ▪ ATE and system integration 	<ul style="list-style-type: none"> ▪ The 2U/half-rack form factor, GPIB interface, full SCPI support, and RMU2U rack mount kit make it a perfect fit for ATE systems