

100MS/s Dual-Channel Arbitrary Waveform Generator

TABOR'S NEW

WW

WONDER WAVE SERIES

MODEL WW1072



- Dual-channel 100MS/s waveform generator
- 1 Meg waveform memory, 2Meg memory, optional
- 14 digits frequency resolution (limited by 1 μ Hz)
- 14 Bit amplitude resolution
- 1 ppm clock accuracy and stability
- Sine and Square waves to 50MHz
- 10 Built-in popular standard waveforms library
- Sophisticated Memory Management, including segmentation and sequences
- AM, FM, Arbitrary FM, FSK, Ramped FSK modulations

- Linear and Logarithmic Sweep
- User-friendly 3.5" color LCD display
- Multi-Instrument synchronization
- DDS technology for extremely low phase noise signals
- Ethernet 10/100, USB 2.0 and GPIB interfaces
- ArbConnection software for easy waveform creation & control

The 1072 system represents a new dimension in arbitrary waveform generator design. With an unprecedented combination of arbitrary generator and synthesizer, versatility, high resolution and wide frequency range, and outstanding performance-to-price ratio, the 1072 delivers diverse benefits that will facilitate tasks in many fields.

100MS/s Sample Rate

New technology requirements are driving communications systems to use increasingly narrow channel widths. A high sample rate of 100MS/s makes the 1072 an ideal modulation source for troubleshooting new encoding schemes. The 1072 also provides high-speed waveforms to simulate signal distortion, video signals, component failures, and power supply line cycle dropouts and transients.

High Performance

Each channel of the 1072 delivers precise waveforms with 14 bits of amplitude resolution and 14 digits of frequency resolution with extremely low phase noise.

Exceptional electrical performance includes up to 10Vp-p into 50 Ω over the full frequency range. Selectable filters ensure clean stimulus waveforms enabling the generator to simulate modulation waveforms.

14 Bit Resolution

The 14-bit resolution provides 16,384 output levels. This means that even audio waveforms can be generated with excellent fidelity. It also allows video and other complex waveforms to be generated with small details superimposed on large signals, in order to test the response of receiving systems.

Function Generator

When used as a simple function generator the instrument offers ten basic waveforms with adjustable parameters all of which are accessible from the front panel. These are sine, triangle, square, pulse, ramp, sinc, Gaussian, exponential (up and down), noise, as well as DC. Sine and square waves can be generated at up to 50MHz.

2M Memory

The 1072 offers 1M word (2M word optional) memory for arbitrary waveforms. In addition, the memory can be divided into as many as 4096 segments, which can be looped and linked in many different ways. Using 1M word at 25MS/s to generate a video signal, for example, the duration is 0.04 seconds, 25Hz, even without any looping of repetitive elements.

Sequence Generator

When the sequencing facilities are employed, the 1072's uniqueness is obvious. The memory segments can be linked and repeated in any combination both manually and under programmed control. This allows test software to switch between many different waveforms rapidly without the need to download multiple times, enhancing test throughput in a way that unmatched by competing products.



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The sequence generator has four advanced modes: automatic, stepped, single and mixed, which make it even a more powerful tool.

High-Quality Modulation Signal Source

One of the many attractive features of the 1072 is the sample clock modulation function. In ordinary arbitrary waveform generators, to make a frequency modulated sine wave you have to enter the complete mathematical function. Not so with the 1072: all that is necessary is generating the carrier signal, and then modulating the clock to obtain the required result. The sample clock modulation can be done using internal waveforms such as sine, square, triangle, and ramp or using downloaded arbitrary modulating waveforms. This allows you to generate signals that would be difficult or impossible to define using an equation. AM, Linear and Logarithmic Sweeps, FSK and Ramped FSK are available as well.

Triggering Facilities

However versatile the waveform generation systems are made, the need for external control of generation is vital. The triggering facilities of the 1072 match the generation functions in versatility. In the simplest mode, signals are output continuously. The 1072 also offers the triggered mode, gated mode, external burst mode, and internal burst mode, all of which can use an external trigger signal or an internal trigger. The use of external sources to prompt the switching of segments has already been mentioned.

Easy to use

Large and user-friendly 3.5" back-lit color LCD display facilitates browsing through menus, updating parameters and displaying detailed and critical information for your waveform output. Combined with numeric keypad, cursor position control and a dial, the front panel controls simplify the often complex operation of an arbitrary waveform generator.

High Speed Access

Access speed is an increasingly important requirement for test systems. Included with the instrument is a variety of interfaces: Ethernet 10/100, USB 2.0 and GPIB so one may select the interface most compatible to individual requirements. Using any of the external interfaces, controlling instrument function and features as well as downloading waveforms and sequences are fast, time saving and easily tailored to every system regardless if it is just a laptop to instrument or full-featured ATE system. IVI drivers and factory support will speed up system integration thus minimizing time-to-market and reduce system development costs significantly.

Precise Inter-Channel Phase Control

In the 1072, both channels share a common sample clock, and both channels are triggered from the same source assuring tightly synchronized channel-to-channel timing. Precise control over channel-to-channel phase offset is achieved by allowing control over channel start phase with a resolution down to as small as 1 waveform point. This enables extremely accurate timing or phase dependencies to be studied, such as those found in high speed digital communication systems.

Multi-Instrument Synchronization

Multiple 1072 can be synchronized using a Master-Slave arrangement allowing users to benefit from the same high quality performance in their multi-channels needs.

ArbConnection

ArbConnection is a graphical tool that provides an unlimited source of Arbitrary Waveforms. With the ArbConnection software you can control instruments functions, modes and features. You can also create a virtually infinite amount of test waveforms. Freehand sketch allows you to draw your own custom waveform for quick analysis of analog signals. You can use the built-in equation editor to create your own exotic functions. Add or subtract components of a Fourier series to characterize digital or analog filters or inject random noise into a signal to test immunity to auxiliary noise.

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Service and Support

Beyond providing precision Test & Measurement instruments, Tabor Electronics provides unparalleled service and support, and is continuously finding new ways to bring added value to its customers.

Our after-sales services are comprehensive. They include all types of repair and calibration, and a single point of contact that you can turn to whenever you need assistance. As part of our extensive support, we offer individualized, personal attention Help Desk, both online and offline, via e-mail, phone or fax.

Tabor Electronics maintains a complete repair and calibration lab as well as a standards laboratory in Israel and USA. Service is also available at regional authorized repair/calibration facilities.

Contact Tabor Electronics for the address of service facilities nearest you.

Applications

For expert technical assistance with your specific needs and objectives, contact your local sales representative or our in-house applications engineers.

Manuals, Drivers, and Software Support

Every instrument comes equipped with a dedicated manual, developer libraries, IVI drivers, and software. However, if your specific manual is lost or outdated, Tabor Electronics makes it possible to log-on to its Download Center and get the latest data "in a click".

Product Demonstrations

If your application requires that you evaluate an instrument before you purchase it, a hands-on demonstration can be arranged by contacting your local Tabor Electronics representative or the Sales Department at our Corporate Headquarters.

Five-year Warranty

Every instrument from the Woder Wave series comes with a five-year warranty. Each one has full test results, calibration certificate, and CD containing product's manual and complete software package. Our obligation under this warranty is to repair or replace any instrument or part thereof which, within five years after shipment, proves defective upon examination. To exercise this warranty, write or call your local Tabor representative, or contact Tabor Headquarters and you will be given prompt assistance and shipping instructions.

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Specification 100MS/s Dual-Channel Arbitrary Waveform Generator

Model WW1072



CHANNELS

Number of Channels: 2, semi-independent

INTER-CHANNEL CONTROL

LEADING EDGE OFFSET

Description: Channel 2 edge trails channel 1 edge by a programmable number of points.

Range: 0 to 1Meg points, 2Meg optional

Resolution and Accuracy: 1 point, or 1 sample clock period of channel 2

Initial Skew: $\pm 2\text{ns}$, with sclk divider = 1;
$\pm 3\text{ns}$, with sclk divider > 1

CHANNEL 2 SAMPLE CLOCK DIVIDER

Description: The sample clock source is common to both channels 1 and 2, however, the sample clock for the slave channel can be divided.

Range: 1 to 65,535

Resolution: 1

INTER-CHANNEL DEPENDENCY

Separate controls: Output on/off, amplitude, AM, offset, standard waveforms, user waveforms, user waveform size, sequence table, channel 2 clock divider, trigger start phase, breakpoints

Common Controls: Sample clock (Arb), frequency (Std), reference source, trigger modes, sequence advance mode, SYNC output, FM, FSK, sweep, arm start/stop

STANDARD WAVEFORMS

Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC.

Frequency Range: Waveform dependent

Source: Internal synthesizer

SINE

Frequency Range: 100 μ Hz to 50MHz

Start phase: 0 to 360 $^{\circ}$

Harmonics Distortion (at 5Vpp):

DC to 1MHz	-50dBc
1 to 5MHz	-45dBc
5 to 10MHz	-35dBc
10 to 50MHz	-22dBc

Non-Harmonic Distortion:

DC to 10MHz	-60dBc
10 to 50MHz	-50dBc

Total Harmonic Distortion:

DC to 100kHz	0.1%
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Flatness (1kHz):

DC to 1MHz	1%
1MHz to 25MHz	5%
25MHz to 50MHz	20%

TRIANGLE

Frequency Range: 100 μ Hz to 15MHz

Start phase: 0 to 360 $^{\circ}$

SQUARE

Frequency Range: 100 μ Hz to 50MHz

Duty cycle: 1% to 99%

Rise/Fall time: <math>< 10\text{ns}</math>, typically <math>< 8\text{ns}</math>

Aberration: <math>< 5\%</math>

PULSE

Frequency Range: 100 μ Hz to 15MHz

Delay, Rise/Fall Time,

High Time Ranges: 0%-99.9% of period (each independently)

Rise/Fall time: <math>< 10\text{ns}</math>, typically <math>< 8\text{ns}</math>

Aberration: <math>< 5\%</math>

RAMP

Frequency Range: 100 μ Hz to 15MHz

Delay, Rise/Fall

Time Ranges: 0%-99.9% of period (each independently)

SINC (SINE(x)/x)

Frequency Range: 100 μ Hz to 6.25MHz

"0" Crossing: 4 to 100 cycles

GAUSSIAN PULSE

Frequency Range: 100 μ Hz to 6.25MHz

Time Constant: 1 to 200

EXPONENTIAL FALL/RISING PULSE

Frequency Range: 100 μ Hz to 6.25MHz

Time Constant: -100 to 100

REPETITIVE NOISE

Bandwidth: 25MHz

DC

Range: -100% to 100% of amplitude

ARBITRARY WAVEFORMS

Sample Rate: 100mS/s to 100MS/s

Vertical Resolution: 14Bits

Waveform Memory: 1Meg points standard,
2Meg points optional (per channel)

MEMORY SEGMENTATION

No. of Segments: 1 to 2048

Min. Segment Size: 16 points

Resolution: 4 points size increments from
16 to 1M points (2M optional)

SEQUENCED ARBITRARY WAVEFORMS

Operation: Permits division of the memory bank into smaller segments. Segments may be linked, and repeated in user-selectable fashion to generate extremely long waveforms.

ADVANCE MODES

Automatic Sequence

Advance: No triggers required to step from one segment to the next. Sequence is repeated continuously through a pre-programmed sequence table

Stepped Sequence

Advance: Current segment is sampled continuously, external trigger advances to next programmed segment. Control input is TRIG IN connector.

Single Sequence

Advance: Current segment is sampled to the end of the segment including repeats and idles there. Next trigger advances to next segment. Control input is TRIG IN connector.

Mixed Sequence

Advance: Each step of a sequence can be programmed to advance either: a) automatically (Automatic Sequence Advance), or b) with a trigger (Stepped Sequence Advance)

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Advance Source: External, rear panel BNC;
Internal; GPIB
Sequencer steps: From 1 to 2048
Segment loops: From 1 to 1Meg
Minimum Segment Duration: 1µs for more than one loop.

COMMON CHARACTERISTICS

FREQUENCY

Resolution: 14 digits limited by 1µS/s
Accuracy & Stability: Same as reference

10MHz REFERENCE CLOCK

Internal 0.0001% (1ppm TCXO) initial tolerance over a 19°C to 29°C temperature range; 1ppm/°C below 19°C and above 29°C; 1ppm/year aging rate
External 10MHz TTL, 50% ±2% duty cycle

AMPLITUDE

Range: 10mV to 10Vp-p, into 50Ω;
Double into open circuit
Resolution: 4 digits
Accuracy (1 KHz):
1.000V to 10Vp-p ±(1% + 25mV)
100mV to 999.9mVp-p ±(1% + 5mV)
10mV to 99.99mVp-p ±(1% + 2mV)

OFFSET

Range: 0 to ±4.5V Independent to amplitude setting as long as (amplitude/2) + (offset) does not exceed 5Vp-p
Resolution: 2.2 mV
Accuracy: ±1%

FILTERS

Type: 50 MHz Elliptic
25 MHz Elliptic

OUTPUTS

MAIN OUTPUTS

Connector: Front panel BNC
Stand-by: Output Off or Normal
Impedance: 50Ω, ±1%
Protection: Protected against temporary short to case ground

SYNC/MARKER OUTPUT

Connector: Front panel BNC
Impedance: 50Ω, ±1%
Level: >2 V into 50Ω,
4V nominal into 10kΩ
Validators: BIT, LCOM
Protection: Protected against temporary short to case ground
Position: Point 0 to n, Programmable with 4-point resolution
Width Control: Programmable
Range: 4 to 100000 waveform points
Resolution: 4 points
Source: Channel 1

SINEWAVE OUTPUT

Connector: Rear panel BNC
Impedance: 50Ω, ±1%
Level: 1V into 50Ω
Protection: Protected against temporary short to case ground
Source: Sample clock frequency
Frequency Range and Resolution: Same as Sample clock
Total Harmonic Distortion: 0.05% to 100KHz
Harmonics and non-related spurious: < -30dBc to 100MHz

SAMPLE CLOCK OUTPUT

Connector: Rear panel SMB
Level: ECL
Impedance: 50Ω, terminated to -2V

INPUTS

TRIG INPUT

Connector: Rear panel BNC
Impedance: 10kΩ, ±5%
Threshold Level: TTL
Min Pulse Width: 20ns
Slope: Positive or negative going edge.

10 MHz REFERENCE INPUT

Connector: Rear panel BNC
Impedance: 10kΩ, ±5%
Threshold Level: TTL
Duty Cycle: 50%, ±5%

AM INPUT

Modulation Input: Rear panel BNC
Impedance: 1MΩ, ±5%
Max Input Voltage: 12V

SAMPLE CLOCK INPUT

Connector: Rear panel SMB
Input Level: ECL
Impedance: 50Ω, terminated to -2V
Range: DC to 50MHz
Min. Pulse Width: 4 ns

SYNCHRONIZATION CONNECTOR

Connector: Rear panel 9-pin DSUB
Interconnecting Cable: Optional, consult factory at the time of purchase

MODULATION

Carrier Waveform: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms
Run Modes: Continuous, Triggered, Burst and Gated
Trigger Advanced Mode: Automatic, Triggered, Gated or Software Command

Marker

Output & Level Position: Same as SYNC output.
Programmable for selected frequency

FM

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms

Carrier Frequency: Waveform dependent
Modulating Waveforms: Sine, Square, Triangle and Ramp
Modulation Source: Internal
Modulating Frequency: 1mHz to 100KHz
Deviation Range: 100mS/s to 50MS/s
Frequency Distortion: <0.1%
Resolution: 12 digits, limited by 1µHz
Accuracy: 0.1%

ARBITRARY FM

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms

Carrier Frequency: Waveform dependent
Modulating Waveform: Arbitrary waveform, 10 to 20000 waveform points

Modulation Source: Internal
Modulating Waveform: Internal
Sample Clock: 1mS/s to 2MS/s
Deviation Range: 100mS/s to 50MS/s
Frequency Distortion: <0.1%
Resolution: 12 digits, limited by 1µHz
Accuracy: 0.1%

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AM

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms

Carrier Frequency: Waveform dependent

Modulation Source: External

Envelop Frequency: 1µHz to 500kHz

Sensitivity: 0V to +5V (5Vp-p) produce 100% modulation

Modulation Depth: 0% to 100%

FSK

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms

Carrier Sample

Clock Range: 100mS/s to 100MS/s

Modulation Source: External, Rear panel Trigger input BNC.

Low level: Carrier sample clock

High level: Hop frequency

Baud Rate Range: 1bits/sec to 10Mbits/sec

Minimum FSK Delay: 1 waveform cycle + 50ns

RAMPED FSK

Ramp Time Range: 10µs to 1s

Resolution: 3 digits

Accuracy: ±0.1%

SWEEP

Carrier Waveforms: Sine, Square, Triangle, Ramp, Arb

Sweep Step: Linear, Logarithmic or Arb

Sweep Direction: Up or down

Sweep Range: 100mS/s to 100MS/s

Sweep Time: 1ms to 1000s

Resolution: 9 digits

Accuracy: ±0.1%

TRIGGERING CHARACTERISTICS

System Delay: 1 Sample Clock+150ns

Trigger Start, Stop,

Phase Control: 0 to 1Meg points, (2Meg optional)

Resolution: 4 points

Breakpoint Error: ±4 points

Breakpoint Source: External (Rear Panel Trigger Input BNC), Manual, or software command through Ethernet, USB or GPIB

EXTERNAL

Connector: Rear panel BNC
Level: TTL
Slope: Positive or negative
Frequency: DC to 2MHz
Impedance: 10kΩ, DC coupled

INTERNAL

Range: 100mHz to 2MHz
Resolution: 14 digits, limited by 1µHz
Accuracy: 0.1%

MANUAL

Source: Soft trigger command through the front panel or external interface

GATED MODE

External signal enables generator. First output cyclesynchronous with the active slope of the triggering signal. Last cycle of output waveform always completed

BURST

Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC, Arb

Counted Burst Cycles: 1 to 1Meg, programmable
Source: Manual, Internal or External

MULTI-INSTRUMENT SYNCHRONIZATION

Description: Multiple instruments can be connected together and synchronized to provide multi-channel synchronization.

PHASE (LEADING EDGE) OFFSET

Description: Leading edge of master output trails the leading edge of the slave output by a programmable number of points. Each slave can be programmed to have individual offset.

Range: 0 to 1Meg points (2Meg optional)

Resolution and Accuracy: 4 point
Initial Skew: < ±15ns, depending on cable length and quality, typically with 0.5 meter coax cables

GENERAL

Power Supply: 85 to 265V, 48 to 63Hz,
Power Consumption: 60W max
Display: Color LCD, 3.5" reflective, 320 x 240 pixels, back-lit

Operating temperature: 0 - 50°C

Humidity (non-condensing): 11°C to 30°C: 85 %
31°C to 50°C: 75 %

Storage temperature: -40°C to + 70°C.
Interface: Ethernet 10/100, USB 2.0 and GPIB standard

Language: IEEE-488.2 - SCPI - 1993.0
Dimensions: 212 x 88 x 415mm (WxHxD)
Weight: Approximately 7 lb
Safety: EN61010-1, 2nd revision
EMC: CE marked. Designed to meet VDE 0411/03.81 and UL 1244

Reliability: MTBF per MIL-HDBK-217E, 25°C, Ground Benign

Workmanship Standards: Conform to IPC-A-610D
Supplied Accessories: Power Cord, USB cable, CD containing Operating Manual, ArbConnection software and developer libraries.
Warranty: 5 years standard

ORDERING INFORMATION

MODEL	WW1072
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OPTIONS

2Meg:	2 Meg Memory
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ACCESSORIES

Sync cable: Sync cable for multi instrument synchronization
S-Rack mount: 19" Single Rack Mounting Kit
D-Rack mount: 19" Dual Rack Mounting Kit
Case Kit: Professional Carrying Bag

Note: Options and Accessories must be specified at the time of your purchase.



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The measure of perfection