



- Single / Dual Channel 50MS/s waveform generator
- Sine waves to 25MHz, Square to 15MHz
- SINE OUT to 50MHz, 1Vp-p

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- 11 Built-in popular standard waveforms
- 14 Bit amplitude resolution
- 11 digits frequency resolution (limited by 1µHz)
- 512k standard waveform memory (1M option)
- 10Vp-p into 50Ω, double into high impedance

MODELS WW5061/2

50MS/s Single/Dual Channel Arbitrary Waveform Generators

- AM, FM, Arbitrary FM, FSK, Ramped FSK modulation
- · Comprehensive memory management
- 1 ppm clock accuracy and stability
- · Linear and Logarithmic Sweep
- User friendly and menu driven 3.8" color LCD display
- LAN, USB and GPIB interfaces
- Multi-Instrument synchronization
- · ArbConnection software for easy waveform creation

Model WW5061/2 represents the next generation of products in the field of function, pulse and arbitrary waveform generators. This instrument is superior and far more versatile than any existing equivalent whether it is an analog or digital product. As a waveform source, this model can replace analog generators in almost every application. The Instrument combines high-frequency performance, versatility and compact size in a boxed format. Featuring signal output in the range of 1µHz to 25MHz and 14-bit vertical DAC resolution and up to 1M arbitrary waveform buffer, these instruments exhibit performance and provide solutions to the most demanding test stimulus challenge.

Versatility

Four waveform types may be generated: standard, arbitrary, sequenced arbitrary, and modulated. It is virtually like having four different generators in a single, compact package.

As a Function Generator

Most applications require simple and controllable waveforms such as sine and square waves; these functions and more are resident in a built-in library and can be called to the output using simple and easy keystrokes. The built-in waveforms are generated digitally from lookup tables that ensure accuracy and fidelity. The use of DDS technology to generate the controlling clock enhances clock stability and thus provides jitter-free and excellent spectral purity. Sine waves can be generated at up to 25MHz. There are ten additional waveforms which have controllable parameters, all accessible from the front panel.

Arbitrary Waveform Generator

Complex waveforms are used for testing purposes throughout the industry. While coordinates for such waveforms can easily be generated on paper or on computers, there is a need for digital instruments to take this data and convert it to electronical signals. An arbitrary waveform generator is about the only tool that can take a set of X-Y coordinates and convert them to real life signals. Combined with the power of ArbConnection, there is no limit to what you can create and generate. Waveform coordinates can be imported from a variety of sources such as MATLAB, ASCII files etc. Anything you can display on one of the composer screens is downloaded in split-second time and generated by the main output.

NOVATION

Waveform Memory for High Speed Testing

The instruments are sold with 512k waveform memory as standard. Optional 1M waveform memory is offered for applications requiring longer waveforms, placing the WW5061/2 in a far better position than its traditional competitors. The waveform memory is accessible from a remote host, using fast GPIB, USB or LAN interface thus minimizing test time needed when downloading multiple waveforms for one or more tests.

The entire space of the waveform memory is backed up by rechargeable batteries allowing waveforms to be downloaded in the lab and the generator moved to another location for field operation.



50MS/s Single/Dual Channel Arbitrary Waveform Generators



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Memory management is a must in today's arbitrary waveform generators. While very few applications require one long memory, most of the waveforms require a limited number of horizontal points. As a sequence generator, the WW5061/2 lets you divide the entire memory into 2048 smaller segments, load each segment with a different waveform, and then, select the order in which these segments will be linked and the number of loops that each segment will perform. This allows test software to switch between many different waveforms rapidly and without having to download multiple times, enhancing test throughput in a way that cannot be duplicated by other competing products.

Modulation Capability

Agility and modulation capabilities open the door to diverse applications. In addition to the power to generate any shape and any style of waveforms with the arbitrary waveform generation power, the product can generate standard modulation schemes such as AM, FM, Arbitrary FM, FSK, and Linear and Logarithmic sweep, all of which are easily created and executed by the generator.

Flexible Triggering Capability

Continuity of signals is required in most applications. However, at times when single output cycles are required or synchronization to other devices is mandatory, the WW5061/2 can be placed in different run modes that provides synchronization to other system components. Built into the product are gated, triggered and burst modes of which the last two can be operated with the built-in, free-running trigger generator, when external stimulating devices are not available.

Easy to use

Large and user-friendly 3.8" 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: LAN, USB and GPIB, so one may select the interface most compatible to individual requirements. Using any of the external interfaces, controlling instrument functions and features as well as downloading waveforms and sequences is 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.

Multiple Environments to Write Your Code

Model WW5061/2 comes with a complete set of drivers, allowing you to write your application in various environments such as: Labview, CVI, C++, VB and MATLAB. You may also link the supplied dll to other Windows based API's or, use low level SCPI commands (Standard Commands for Programmable Instruments) to program the instrument, regardless if your application is written for Windows, Linux or Macintosh operating systems.

Precise Inter-Channel Phase Control (WW5062)

In the WW5062, 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 WW5061/2s can be synchronized using a Master-Slave arrangement allowing users to benefit from the same high quality performance in their multi-channels needs.

ArbConnection

The ArbConnection software provides you with full control of instrument functions, modes and features. ArbConnection is a powerful editorial tool that allows you to easily design any type of waveform. Whether it is the built in wave, pulse or serial data composers, or the built in equation editor with which you can create your own exotic functions, with ArbConnection virtually any application is possible.



50MS/s Single/Dual Channel **Arbitrary Waveform Generators**

Specification

CONFIGURATION

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No. of Channels: 1/2, semi-independent
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STANDARD WAVEFORMS

Waveforms:	Sine, Triangle, Square, Pulse, Ramp, Sine(x)/x, Gaussian, Exponential, Repetitive Noise, DC.
Frequency Range	
Sine	100µHz to 25MHz
Square, Pulse	100µHz to 15MHz
All others	100µHz to 7.5MHz

SINE

Start Phase:	0 to 360°
Phase Resolution:	: 0.1°
Harmonics Distor	tion, 3Vp-p (typ.):
DC to 2.5MHz	<-55dBc
2.5MHz to 25MHz	z <-40dBc
Non-Harmonic Dis	stortion (typ.):
DC to 15MHz	<-70dBc
15MHz to 25MHz	<-60dBc
Total Harmonic Di	stortion:
DC to 100kHz	0.1%
Flatness (1kHz):	
DC to 1MHz	1%
1MHz to 25MHz	5%
Phase Noise (8 pc	pints Sine, Max. SCLK)
100Hz Offset	<-103dBc/Hz
1kHz Offset	<-110dBc/Hz
10kHz Offset	<-118dBc/Hz
100kHz Offset	<-124dBc/Hz
1MHz Offset	<-135dBc/Hz

TRIANGLE. RAMP

Start Phase:	0 to 360°	
Phase Resolution: 0.1°		
Timing Ranges: 0%-99.9% of period		

SQUARE, PULSE

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Duty cycle: Timing Ranges: Rise/Fall time: Aberration:	1% to 99% 0%-99.9% of period <8ns <5%
SINC (SINE(x)/x)	
"0" Crossing:	4 to 100 cycles
GAUSSIAN PULS	E
Time Constant:	1 to 200
EXPONENTIAL F	ALL/RISING PULSE
Time Constant:	-100 to 100
DC	
Range:	-5V to 5V

DIGITAL PULSE GENERATOR OPTION

Fast

Automatic Pulse Mode: Single or double, oblo Polarity: Normal, invert Period: 80ns to 1000 Resolution: 20ns Pulse Width: 40ns to 1000 **Rise/Fall Time:** <8ns (typ.) Linear 20ns to 1000 High Time, Delay & Double Pulse Delay: 20ns to 1000 Amplitude Window: 10mVp-p to Low Level -5V to +4.99 High Level -4.995V to + ⁽¹⁾ Double into high impedance NOTES: 1. All pulse parameters, except ris may be freely programmed withi pulse period provided that the ra period and the smallest increme not exceed the ratio of 512,000 1M option, the ratio is extended 1, hence the specifications below maximum limit as each must be the above relationship. 2. Rise and fall times, may be free provided that the ratio between time and the smallest increment exceed the ratio of 100,000 to 1 3. The sum of all pulse parameters exceed the pulse period setting **ARBITRARY WAVEFORMS** Sample Rate: 100mS/s to 5 Vertical Resolution: 14 Bits Waveform Memory: 512k points s 1M points opt Min. Segment Size: 16 points Resolution: 4 points No. of Segments: 1 to 2k SEQUENCED ARBITRARY W **Operation:** Permits divisio bank into sr Segments ma repeated in fashion to ge long waveforn Sequencer steps: 1 to 2k

Min. Seq. Duration: 1us Segment loops: 1 to 1M

ADVANCE MODES

ted, complement from one segment to the next. Sequence is repeated continuously through a Ds pre-programmed sequence table. Ds Stepped: Current segment is sampled continuously, external trigger advances to next programmed segment. Ds Single: Current segment is sampled to the end of the segment is callels there. Next trigger advances to next segment. Ds Single: Current segment. Sy(1) Single: Current segment is sampled to the end of the segment including repeats and idles there. Next trigger advances to next segment. Se and fall times, in the selected atio between the intal unit does to to 1.00,000 to w do not show computed from of to 1,000,000 to software Mixed: Each step of a sequence can be programmed to advance either: a) automatic (Automatic mode), or b) with a trigger (Stepped mode) or software MODULATION COMMON CHARACTERISTICS SoMS/s Carrier SCLK: 100mS/s to 50MS/s Standard tion (per channel) Carrier SCLK: 100mS/s to 50MS/s Standard tion (per channel) Modulation Source: Internal External AM, FSK FM Modulating Shape: Sine, Square, Triangle / Ramp Modulation Source: Internal AM, FSK FM Modulating Shape: Sine, Square, Triangle / Ramp Deviation Range: 100mS/s to 25MS/s				
OS continuously, external trigger advances to next programmed segment. 10Vp-p ⁽¹⁾ (5V ⁽¹⁾ Single: Current segment is sampled to the end of the segment including repeats and idles there. Next trigger advances to next segment. se and fall times, in the selected atio between the intal unit does to 1. With the to 1, 000,000 to w do not show computed from Mixed: Each step of a sequence can be programmed to advance either: a) automatic (Automatic mode), or b) with a trigger (Stepped mode) Advance Source: Advance Source: External (TRIG IN), Internal or software MODULATION COMMON CHARACTERISTICS Carrier SCLK: 100mS/s to 50MS/s Standard tion (per channel) Carrier SCLK: 100mS/s to 50MS/s Standard user selectable prerate extremely Carrier SCLK: 100mS/s to 50MS/s AVEFORMS on of the memory maller segments. ay be linked, and user selectable prerate extremely Modulating Shape: Sine, Square, Triangle / Ramp Modulation Freq.: Modulating Shape: Arbitrary Waveform, 10 to 20000 waveform points Modulating Shape: 100mS/s to 25MS/s ARBITRARY FM Modulating Shape: Modulating Shape: 100mS/s to 25MS/s AM Envelope Freq.: 1µHz to 500KHz 0V to +5V (5Vp-p)	ole, programmable ted, complement Os Os		from one segment to the next. Sequence is repeated continuously through a pre-programmed sequence table.	
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50MS/s Accuracy: 0.1% standard Freq. Distortion: <0.1%	al unit does not 1.	Carrier SCLK: Carrier Frequency	Ramp, Sine(x)/x, Gaussian, Exponential, Repetitive Noise, DC and Arb 100mS/s to 50MS/s Waveform dependent	
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Envelope Freq.:1µHz to 500kHzSensitivity:0V to +5V (5Vp-p)	118.			
Sensitivity: 0V to +5V (5Vp-p)		AM		
		Sensitivity:	0V to +5V (5Vp-p)	



50MS/s Single/Dual Channel Arbitrary Waveform Generators

........ Specification

FSK

FSK	
Type: Low level: High level: Baud Rate Range: Min. FSK Delay: Ramp FSK: Time Resolution	Hop or Ramp Carrier sample clock Hop frequency 1bits/sec to 10Mbits/sec 1 waveform cycle + 50ns 10µs to 1s 3 digits
SWEEP	
Sweep Time: Sweep Step: Sweep Direction:	1ms to 1000s Linear, Logarithmic or Arb Up or down
COMMON CHAR	ACTERISTICS
FREQUENCY	
Resolution: Display Remote Accuracy/Stability:	11 digits (limited by 1µHz) 14 digits (limited by 1µHz) Same as reference
ACCURACY REFE	RENCE CLOCK
Internal External	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 10MHz TTL, 50% duty cycle
AMPLITUDE	
Range: Resolution: Accuracy (1kHz):	10mV to 10Vp-p, into 50Ω; Double into open circuit 4 digits
100mV to 1Vp-p 1Vp-p to 10Vp-p	±(1% + 5mV) ±(1% + 25mV)
OFFSET	
Range: Resolution: Accuracy:	0 to ±4.5V 2.2 mV 1%
FILTERS	
Туре:	12.5MHz / 25MHz Elliptic
OUTPUTS	
MAIN OUTPUTS	
Coupling: Connector: Impedance: Protection:	DC coupled Front panel BNC 50Ω , ±1% Protected against temporary short to case ground

SY

SYNC/MARKER OUTPUT	
Connector: Impedance: Level: Validators: Protection: Position: Width:	Front panel BNC 50Ω , ±1% >2V into 50Ω , 4V into $10k\Omega$ BIT, LCOM Protected against temporary short to case ground Point 0 to n 4 to 100000 points
Resolution: Source:	4 points Channel 1
SAMPLE CLOCK	OUTPUT
Connector: Level: Impedance:	Rear panel SMB ECL 50Ω, terminated to –2V
SINEWAVE OUTPU	JT
Connector: Impedance: Level: Protection: Source:	Rear panel BNC 50Ω, ±1% 1V into 50Ω Protected against temporary short to case ground Sample clock frequency
Frequency Range Resolution: THD: SFDR:	 anomHz to 50MHz Same as Sample clock 0.05% to 100kHz <-30dBc to 50MHz
INPUTS	
TRIGGER INPUT	
Connector: Input Impedance: Polarity: Threshold Level: Min. Pulse Width:	Rear panel BNC 10kΩ, ±5% Positive or negative TTL 20ns
EXTERNAL REFE	RENCE INPUT
Connector: Frequency: Impedance & Level	Rear panel BNC 10MHz :10kΩ ±5%, TTL, 50% ±5%
AM INPUT	
Modulation Input: Impedance: Max. Input Voltage:	1MΩ, ±5%
SAMPLE CLOCK	NPUT
Connector: Input Level: Impedance: Range: Min. Pulse Width:	Rear panel SMB ECL 50Ω, terminated to –2V 100mHz to 50MHz 4 ns

SYNCHRONIZATION CONNECTOR

NNOVATION

SYNCHRONIZATIO	ON CONNECTOR
Connector: SYNC Cable:	Rear panel 9-pin D-SUB Optional, consult factory at the time of purchase
RUN MODES	
Continuous: Triggered:	Free-run output of a waveform Upon trigger, outputs one waveform cycle. Last cycle always completed
Gated: Burst:	External signal enables generator. First output cycle synchronous with the active slope of the triggering signal. Last cycle of output waveform always completed Upon trigger, outputs a single or multiple pre-programmed number of waveform cycles from 1 through 1M
TRIGGER CHARA	CTERISTICS
System Delay: Trigger Start, Stop Phase Control: Resolution: Breakpoint Error: Breakpoint Source	0 to 512k (1M optional) 4 points
EXTERNAL	
Connector: Level: Slope: Frequency: Impedance:	Rear panel BNC TTL Positive or negative DC to 2MHz 10kΩ, DC coupled
INTERNAL	
Range: Resolution: Accuracy:	100mHz to 2MHz 14 digits, limited by 1µHz 0.1%
MANUAL	
Source:	Soft trigger command from the front panel or remote
INTER-CHANNEL	DEPENDENCY (WW5062)
	Output on/off, amplitude, AM, offset, standard waveforms, user waveforms, waveform size, sequence table, channel 2 clock divider, trigger start phase, breakpoints SCLK, frequency, reference source, trigger and sequence advance mode, SYNC OUT, FM, FSK, sweep and arm



Visit our website at www.taborelec.com

50MS/s Single/Dual Channel Arbitrary Waveform Generators



Specification

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PHASE OFFSET (LEADING EDGE)

Range:	0 to 512k points (1M option)
Resolution/Accuracy	:1 point, or 1 SCLK of CH. 2
Initial Skew:	$<\pm 2$ ns, with sclk divider = 1;
	$<\pm$ 3ns, with sclk divider > 1

CHANNEL 2 SAMPLE CLOCK DIVIDER

Range:	1 to 65,535 points
Resolution:	1 point

MULTI-INSTRUMENT SYNCHRONIZATION

PHASE OFFSET (LEADING EDGE)

Range:	0 to 512k points (1M optional)
Resolution:	4 point
Initial Skew:	<±15ns, depending on cable
	length and quality, typically
	with 0.5 meter coax cables

Voltage Range:	85 to 265V
Frequency Range	:48 to 63Hz
Power Consumption	:60W max
Display Type:	Color LCD,
Size	3.8" reflectiv
Resolution	320 x 240 p

Interfaces: **USB** Device

LAN

GPIB

GENERAL

Dimensions: With Feet Without Feet Weight: Without Package 3.5Kg Shipping Weight 4Kg Temperature: Operating Storage Humidity:

' max or LCD, back-lit reflective x 240 pixels, 1 x rear, USB device, (A type) 100/10 BASE-T IEEE 488.2 standard interface 212 x 102 x 415mm (WxHxD) 212 x 88 x 415mm (WxHxD) 0 - 50°C -40°C to + 70°C.

11°C to 30°C: 85%; 31°C to 50°C: 75% Safety: EN61010-1, 2nd revision Calibration: 1 year Warranty (1): 5 years standard

ORDERING INFORMATION	
MODEL	DESCRIPTION
WW5061	50MS/s Single Channel Arbitrary Waveform Generator
WW5062	50MS/s Dual Channel Arbitrary Waveform Generator
OPTIONS	
Option 1:	1M Memory
ACCESSORIES	
Sync Cable: S-Rack Mount: D-Rack Mount: Case Kit:	Multi-instrument synchronization 19" Single Rack Mounting Kit 19" Dual Rack Mounting Kit Professional Carrying Bag
Note:	Options and Accessories must be specified at the time of your purchase.



⁽¹⁾ Standard warranty in India is 1 year.