

- 0.01 μHz to 30 MHz, 20 Vp-p, 1 or 2 channels
- Intuitive operation with a 3.5" LCD screen
- Synchronize up to 6 units to provide up to 12 output channels
- A variety of sweeps and modulations

How can you replicate real world signals? Precisely

FG400 Series
Arbitrary/Function Generator

Features and benefits

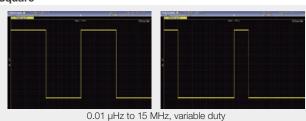
Easily generate basic, application specific and arbitrary waveforms.

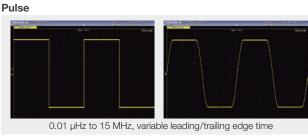
The FG400 Arbitrary/Function Generator provides a wide variety of waveforms as standard and generates signals simply and easily.

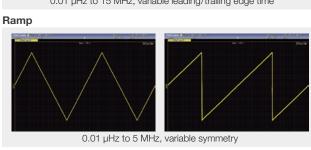
There are one channel (FG410) and two channel (FG420) models. As the output channels are isolated, an FG400 can also be used in the development of floating circuits. (up to 42 V)

Basic waveforms

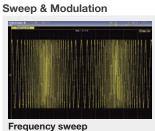
Sine DC 0.01 µHz to 30 MHz ±10 V/open Square



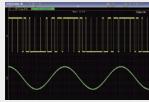




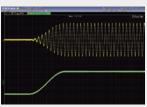
Advanced functions



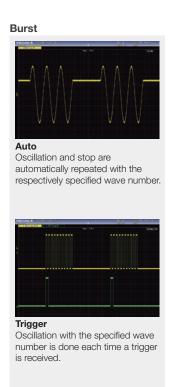
Setting items
start/stop frequency, time, mode
(continuous, single, gated single),
function (one-way/shuttle, linear/
log)

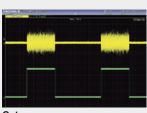


PWM
Setting items
carrier duty, peak duty deviation
Output duty
the range of carrier duty ±peak
duty deviation



AM
Setting items
carrier amplitude, modulation depth
Output amp.
the range of amp./2 × (1 ±mod.
Depth/100)





Oscillation is done in integer cycles or half cycles while the gate is on.

For trouble shooting

Arbitrary waveforms (16 bits amplitude resolution) of up to 512 K words per waveform can be generated. 128 waveforms with a total size of 4 M words can be saved to the internal non-volatile memory. Waveforms can be selected from the displayed list. Waveforms can be created in the FG400 or with

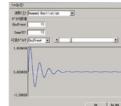
the editor software.



The list of arbitrary waveforms



Editing screen in the FG400



Editing screen of the editor software

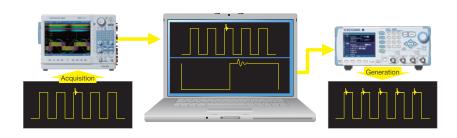
Acquire signal noise in the field, and then recreate it in the lab

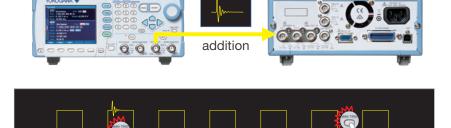
The FG400 can generate signals as arbitrary waveforms that have been acquired by measuring instruments. Trouble shooting is made easier as the FG400 can generate waveforms that are difficult to reproduce. For example noise that only occurs on site. With the XviewerLITE software (freeware), waveform (binary data) that is acquired using a YOKOGAWA DL850E or DLM4000 can be analyzed on the PC to find the abnormal waveform. This abnormal part can then be clipped, saved and generated using the FG400.

[Application]

Clipping the abnormal signal, then adding it to the normal signal

Connect the clipped abnormal signal output of channel 2 to the additional input terminal of channel 1, and then press the Manual trigger key. The abnormal signal is added to the normal pulse waveform that is set on channel 1.





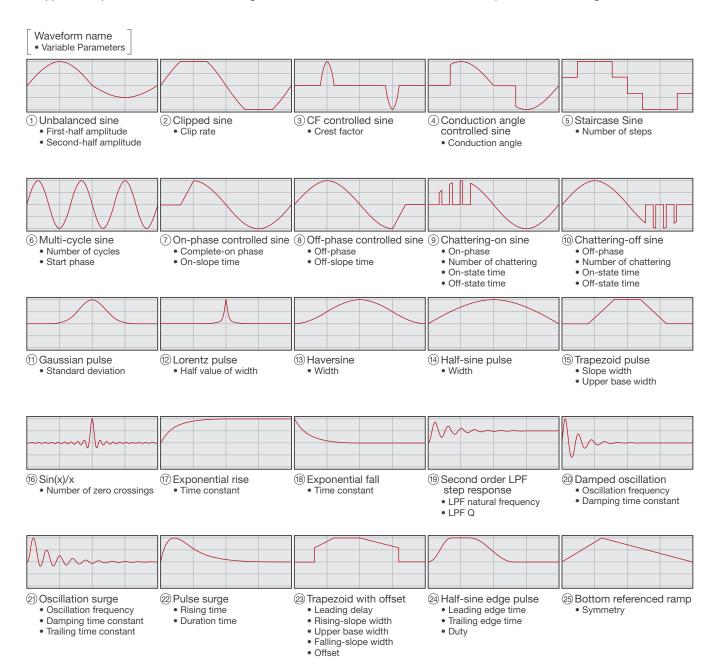
Features and benefits FG400 Series

Features and benefits

Application-specific waveforms are also standard

Parameter-Variable Waveforms

In some cases engineers need application-specific waveforms like those needed to evaluate the response characteristics of mechanical/ electrical circuits and to emulate power supply circuits. The FG400 provides 25 different types of waveform as standard. As the parameters of application-specific waveforms can be changed like those of basic waveforms, waveforms are quicker and easier to generate.

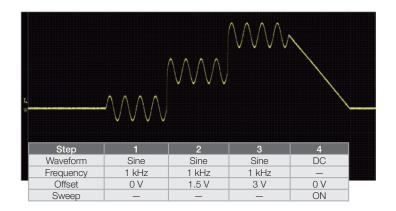


5 Manually program waveform patterns

Sequence function

Sequences of different waveform patterns can be generated by programming the parameters. Complex sequences can be easily created using the "Sequence Edit Software".

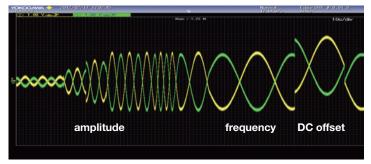
Available parameters include: waveform, frequency, phase, amplitude, DC offset, square wave duty, step time, hold operation, jump destination, number of jumps, step stop phase, branch operation, step termination control, step sync code output



When 2 channels are linked (FG420 only)

In the FG420 the two output channels can be linked. In this mode, both output signals vary when either channel is adjusted.

- Independent: Independent setting
- 2- phase: Holds the same frequency
- Constant frequency difference: Holds the frequency difference as a constant value
- Constant frequency ratio: Holds the frequency ratio as a constant value
- Differential output: Same frequency, amplitude, and DC offset. Reverse phase waveform



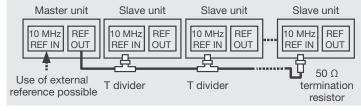
Example of the differential output

When you need more than 2 channels

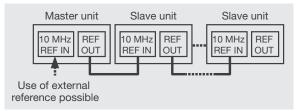
By synchronizing multiple FG410 and FG420s, a generator of up to 12 phases (using six FG420s) can be created. The phase of each channel is synchronized to the master unit and can be individually adjusted.

Greater accuracy and stability

The FG400 has an external input terminal to increase frequency accuracy and stability by using a frequency reference with better accuracy than the built-in reference (for example, a rubidium frequency standard).



Connection method 1 (up to 6 units)



Connection method 2 (up to 4 units)

Input/output terminal

FG410 (1 ch)





FG420 (2 ch)





CH1 I/O terminals

- 1 Waveform output
- 2 Sync/sub-output
- 3 external modulation/addition input
- 4 external trigger input

Setting range

50 Ω, unbalanced

Output impedance

Common I/O terminals

- 5 External 10 MHz frequency reference input
- 6 Frequency reference output
- 7 Multi-I/O connector
- 8 GPIB connector
- 9 USB connector

CH2 I/O terminals

- 10 Waveform output
- 11 Sync/sub-output
- 12 external modulation/addition input
- 13 external trigger input

Specification of FG400

Output and Oscillation	n Modes			
Number of channels	FG410: 1 char	nnel FG420:	2 channels	
Output waveforms	Sine, square, pulse, ramp, parameter-variable waveform, noise (Gaussian distribution), DC, arbitrary waveform			
Oscillation modes	Continuous, modulation, sweep, burst, sequence			
Frequency				
			Oscillation mode	
	Continuous, Swe (Continuous,	ep	Sweep (Gated Single-Shot), Burst	Sequence
Sine	0.01 µHz	to 30 MHz	0.01 µHz to10 MHz	0.01 µHz to10MHz
Square	0.01 µHz	to 15 MHz	0.01 µHz to10 MHz	0.01 µHz to10MHz
Pulse	0.01 µHz	to 15 MHz	0.01 µHz to10 MHz	not usable
Ramp		0.01 µHz	to 5 MHz	0.01 µHz to 5 MHz ⁺²
Parameter-variable waveform	0.01 μHz to 5 MHz 0.01 μHz to 5 MHz ⁻²			
Noise	Fixed to 26 MHz equivalent bandwidth			
DC	Frequency setting invalid			
Arbitrary	0.01 μHz to 5 MHz			
Frequency setting resolution	0.01 µHz			
Frequency accuracy ¹¹	±(3 ppm of setting + 2 pHz), Aging rate ⁻¹ ±1 ppm/year			
Phase setting range	-1800.000° to +1800.000°			
Output Characteristics	S			
Amplitude	Setting range	Setting range 0 Vp-p to 20 Vp-p/open, 0 Vp-p to 10 Vp-p/50 Ω AC+DC \leq ±10 V/open		
	Setting 999.9 mVp-p or lower 4 digits or 0.1 mVp-p resolution 1 Vp-p or higher 5 digits or 1 mVp-p			
	Accuracy ¹¹	Accuracy ^{1,14} ±(1% of amplitude setting [Vp-p] + 2 mVp-p)/open		
	Setting units	Vp-p, Vpk, V	irms, dBV, dBm	
	Resolution	Approx. 14 bits (36 mVp-p/open or higher)		

±10 V/open, ±5 V/50 Ω ±499.9 mV or lower 4 digits or 0.1 mV ±0.5 V or higher 5 digits or 1 mV

 $\pm(|\,1\%$ of DC offset setting [V] |+5 mV + 0.5% of amplitude setting [Vp-p])/open (Sine, 10 MHz or lower, 20°C to 30 °C)

			X drive: 0 V to	+3 V/open	
Sine wave					
Amplitude frequency characteristics ¹¹		100 kHz to 5 MHz: ±0 5 MHz to 20 MHz: ±0 20 MHz to 30 MHz: ±0			
Total han		10 Hz to 20 kHz: 0.2% or less (0.5 Vp-p to 10 Vp-p/50 Ω)			
Harmoni	c spurious ^{*1}		0.5 Vp-p to 2 Vp-p/50 Ω	2 Vp-p to 10 Vp-p/50 Ω	
		1 MHz or lower	-60 dBc or lower	-60 dBc or lower	
		1 MHz to 10 MHz	-50 dBc or lower	-43 dBc or lower	
		10 MHz to 30 MHz	-40 dBc or lower	-30 dBc or lower	
Non-harmonic spurious ^{*1}		1 MHz to 10 MHz -5			
Square wa	ave				
Duty	Normal range	0.0100% to 99.9900% Upper limit (%): 100 – frequency (Hz) / 300,000 Lower limit (%): frequency (Hz) / 300,000 Jitter: 300 ps rms or less typ.			
	Extended range	0.0000% to 100.00009 Jitter: 2.5 ns	% rms or less typ.		
Rising/fa	lling time*1	17 ns or less			
Overshoo	ot	5% or less typ.			
Pulse wav	/e				
Pulse wid	dth	Duty setting range: Time setting range:	0.0170% to 99.9830% 25.50 ns to 99.9830 Ms		
Leading edge time, trailing edge time		Setting range Minimum setting value	15.0 ns to 58.8 Ms (3 digits or 0.1 ns resolution) Leading/trailing edge time independently settable Largest of either 0.01% of period or 15 ns		
Overshoo	ot	5% or less typ.			
Jitter 500 ps rms or less typ		500 ps rms or less typ.	(10 kHz or higher) 2.5 ns	rms or less typ. (under 10 kHz)	
Ramp wa	ve				
Symmetr	y setting range	0.00% to 100.00%	·		

Waveform name		
Unbalanced sine, Cli	ipped sine, CF controlled sine, Conduction angle controlled sine	
Staircase sine, Multi-cycle sine On-phase controlled sine, Off-phase controlled sine, Chatteringon sine, Chatteringoff sine		
Gaussian pulse, Lorentz pulse, Haversine, Half-sine pulse, Trapezoid pulse, Sin(x)/x		
Exponential rise, Exponential fall, Second order LPF step response,		
Damped oscillation		
	ilse surge t, Half-sine edge pulse, Bottom referenced ramp	
napozoia witi olisci	, rian sine eage paise, Bottom referenced ramp	
	(2 ⁿ , n = 12 to 19) or 2 to 10,000 control points	
	is or 4 M words (combined total for channels 1 and 2) saved to	
non-volatile memory		
120 MS/s		
Peak deviation:	Standard waveform other than noise, pulse wave and DC, are arbitrary waveform 0.00 µHz to less than 15 MHz	
Carrier waveform:	Standard waveform other than noise, pulse wave and DC, ar arbitrary waveform	
Hop frequency:	Within settable carrier waveform frequency range	
Carrier waveform:	Standard waveform other than noise and DC, and arbitrary waveform	
Peak deviation:	0.000° to 180.000°	
Carrier waveform:	Standard waveform other than noise and DC, and arbitrary waveform	
Deviation:	-1800.000° to +1800.000°	
Carrier waveform:	Standard waveform other than DC, and arbitrary waveform	
	0.0% to 100.0% Standard waveform and arbitrary waveform	
Peak deviation:	0 V to 10 V/open	
Carrier waveform:	Square wave, pulse wave	
Square wave:	Normal variable duty range 0.0000% to 49.9900%	
Pulse wave:	Extended variable duty range 0.0000% to 50.0000% 0.0000% to 49.9000%	
	K: Sine wave, square wave (50% duty),	
	triangular wave (50% symmetry), rising ramp wave,	
FSK, PSK:	falling ramp wave, noise, arbitrary wave Square wave (50% duty)	
	K: 0.1 mHz to 100 kHz (5 digits or 0.1 mHz)	
FSK. PSK:	0.1 mHz to 1 MHz (5 digits or 0.1 mHz)	
	amplitude, DC offset, duty	
	veform shape), shuttle (triangular waveform shape) (selectable)	
	o value specification or Center value and span value specification	
0.1 ms to 10,000 s		
0		
	shot, gated single-shot (selectable) -shot, oscillation occurs only during sweep execution	
Internal, external (selectable)		
Period setting range	e: 100.0 µs to 10,000 s (5 digits or 0.1 µs)	
	al level while oscillation is stopped during gated single-shot swe	
Sweep sync/marker	routput, Sweep X drive output, Sweep external control input,	
Auto burst, Trigger b		
Triggered gate (Gate	e oscillation switched on/off by gate upon trigger)	
	99.5 cycles, in 0.5-cycle units	
1 cycle, 0.5 cycles (selectable)	
-1800.000° to +180	00.000°	
Specification of sign	nal level when oscillation is stopped.	
Setting range:		
-100 000/ to 11/	00 00% of amplitude full scale or off	
When the stop le	20.00% of amplitude full scale or off evel is set to off, stop occurs at the set oscillation start/stop	
When the stop le phase.	evel is set to off, stop occurs at the set oscillation start/stop	
When the stop le phase. Internal, external (se	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible	
When the stop le phase. Internal, external (se 1.0 µs to 1,000 s (5	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs)	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s Latent delay of 0.55 TTL level	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) i µs, Only valid for trigger burst	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s Latent delay of 0.55 TTL level Input impedance 10	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (5 digits or 0.01 µs) (6 kg/s) valid for trigger burst kg/s) kΩ (pulled up to +3.3 V), unbalanced	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s Latent delay of 0.55 TTL level	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (5 digits or 0.01 µs) (6 kg/s) valid for trigger burst kg/s) kΩ (pulled up to +3.3 V), unbalanced	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s Latent delay of 0.55 TTL level Input impedance 10 Panel key operation	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (5 digits or 0.01 µs) (8 p. only valid for trigger burst 1) kΩ (pulled up to +3.3 V), unbalanced	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s Latent delay of 0.55 TTL level Input impedance 10 Panel key operation Step time, hold ope	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (5 digits or 0.01 µs) (6 kg/s) valid for trigger burst bkΩ (pulled up to +3.3 V), unbalanced	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s Latent delay of 0.55 TTL level Input impedance 10 Panel key operation Step time, hold ope branch operation, si	evel is set to off, stop occurs at the set oscillation start/stop slectable). Manual trigger possible digits or 0.1 μs) (6 digits or 0.01 μs) μs, Only valid for trigger burst $0 \ k\Omega \ (\text{pulled up to } +3.3 \ V), \ \text{unbalanced}$	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 10.000 s (5 0.00 µs to 100.00 s (5 0.00 µs to 100.00 s (5 0.00 µs to 100.00 s (5 0.00 pt s)) TIL level Input impedance 1C Panel key operation Step time, hold ope branch operation, s' Waveform, frequence - Sine wave, square	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (6 digits or 0.01 µs) is µs, Only valid for trigger burst (b µC (pulled up to +3.3 V), unbalanced varion, jump destination, number of jumps, step stop phase, tep termination control, step sync code output by, phase, amplitude, DC offset, square wave duty wave, noise, DC, and arbitrary wave	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s (5 0.00 µs to 100.00 s (4 0.55 TTL level Input impedance 10 Panel key operation Step time, hold ope branch operation, si Waveform, frequence - Sine wave, square - Ramp wave and p arbitrary waveform	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (5 digits or 0.01 µs) is µs, Only valid for trigger burst bkΩ (pulled up to +3.3 V), unbalanced ration, jump destination, number of jumps, step stop phase, tep termination control, step sync code output y, phase, amplitude, DC offset, square wave duty wave, noise, DC, and arbitrary wave arameter-variable waveform can be used through saving as	
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When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 10.000 s (5 0.00 µs to 100.00 s (5 0.00 produced lingut impedance 10 Panel key operation. Step time, hold ope branch operation, s' Waveform, frequence - Sine wave, square - Ramp wave and p arbitrary waveform 128 10 sequences (save Maximum of 255 ste	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (5 digits or 0.01 µs) (6 digits or 0.01 µs) (6 digits or 0.01 µs) (6 digits or 0.01 µs) (7 digits or 0.01 µs) (8 p. y.	
When the stop le phase. Internal, external (set 1.0 µs to 1,000 s (5 0.00 µs to 100.00 s (6 0.00 pt 1.00	evel is set to off, stop occurs at the set oscillation start/stop electable). Manual trigger possible digits or 0.1 µs) (5 digits or 0.01 µs) (5 digits or 0.01 µs) (6 digits or 0.01 µs) (6 digits or 0.01 µs) (6 digits or 0.01 µs) (7 digits or 0.01 µs) (8 p. y.	
	Waveform name Unbalanced sine, CI Staircase sine, Multi On-phase controlled Chatteringoff sine Gaussian pulse, Lon Exponential rise, Exp Damped oscillation Oscillation surge, Pu Trapezoid with offset 4 K to 512 K words (linear interpolation to Up to 128 waveform: No-volatile memory 16 bits 120 MS/s Carrier waveform: Peak deviation: Carrier waveform: Peak deviation Carrier waveform: Poulstion: Carrier waveform: Peak deviation Carrier waveform: Poulstion: Carrier waveform: Poulstion: Carrier waveform: Peak deviation Carrier waveform: Peak deviation Carrier waveform: Poulstion: Carrier waveform: Peak deviation Square wave: Pulse wave: Other than FSK, PSI FSK, PSK: One-way (ramp wave: Linear, log (frequency) Done way (ramp wave) Uninear, log (frequency) Continuous, single- During gated single Internal, external (se Period setting range: –100 Sweep sync/market Sweep external trig Auto burst, Trigger I Triggered gate (Gate O.5 cycles to 999,91 1 cycle, 0.5 cycles (—1800.000° to +18	

Channel modes		(holds same frequency), Constant frequency difference, tio, Differential output (Same frequency, amplitude, and DC	
	offset. Reverse phase		
Equivalent setting, same operation	Set two channels at th	e same time.	
Frequency difference		30 MHz (0.01 µHz resolution)	
setting range	CH2 frequency – CH1 frequency		
Frequency ratio N:M setting range	1 to 9,999,999 (for each of N and M) N:M = CH2 frequency:CH1 frequency		
Phase synchronization	Automatically execute	d during channel mode switching	
Other functions External 10 MHz frequency reference input	Voltage/waveform	0.5 Vp-p to 5 Vp-p, Sine wave or square wave	
Frequency reference	for synchronizing multiple FG410, FG420 units.		
output Voltage/waveform 1 Vp-p/50 Ω square wave, 10 External addition input Function to add the external signal to the waveform c		1 Vp-p/50 Ω square wave, 10 MHz	
External addition input	Addition gain	x2/x10/off selectable	
	3.	The maximum output voltage range is fixed to 4 Vp-p $(\times 2)$ or 20 Vp-p $(\times 10)$.	
	Voltage/waveform	-1 V to +1 V, DC to 10 MHz (-3 dB)	
	Input impedance	10 kΩ, unbalanced	
Multi input/output	Used for sweep and s	· · · · · · · · · · · · · · · · · · ·	
Synchronization of multiple units	Sync operation is possible. Up to 6 units can be connected with BNC cables in the form of master/slave connections, using the frequency reference output and externa 10 MHz frequency reference input.		
User-Defined Unit		value in any unit, using a specified conversion expression.	
	Setting target Conversion	Frequency, period, amplitude, DC offset, phase, and duty [(Setting target value) + n] × m,	
	expression	or [log ₁₀ (setting target value) + n] × m	
	Unit character string	Specification of conversion expression and values of n and Up to 4 characters	
Setting saving capacity	10 settings (saved to r		
Interface	GPIB, USBTMC (SCP	I-1999, IEEE-488.2)	
eneral Characteristics			
Display	3.5 inch TFT color LCI)	
Input/output ground	 The signal grounds for waveform output, sync/sub output and external modulation addition input are insulated from the housing. (42 Vpk max. These signal grounds are common within the same channel.) The signal ground for the external 10 MHz frequency reference input is insulated from the housing. (42 Vpk max.) Each signal ground for CH1, CH2 and external 10 MHz frequency reference input is independent. 		
Power supply	AC 100 V to 230 V ±10% (250 V max.) 50 Hz/60 Hz ±2 Hz		
Power consumption	FG410 50 VA or less FG420 75 VA or less		
Operating temperature/ humidity range	0°C to +40°C, 5%RH to (Absolute humidity of	to 85%RH 1 g/m³ to 25 g/m³, no condensation)	
Weight	Approx. 2.1 kg (main unit excluding accessories)		
Dimensions	216 (W) × 88 (H) × 33	2 (D) mm (excluding protrusions)	
Sequence Editor			
Editing functions	Initializes, copies, pastes, inserts, and deletes steps Saves and reads sequence data to/from a file. Sequence can be edited without connecting the device.		
Displaying functions	Editing screen: Lists parameters for each step. Sequence view screen: Graphs changes of up to five parameters.		
Transferring functions	· · · · · · · · · · · · · · · · · · ·	sequence data to/from the device.	
	Transfers to the devi	ce the arbitrary waveform used in the sequence.	
Device control functions	Output on/off Starts, stops and holds the sequence.		
Operating environment	Can monitor the execution status of sequence. Windows XP/7 USB Interface NI-VISA from National Instruments USB driver (required)		
Arbitrary Waveform Edit		d waveform and a mathtil	
Editing functions	Generation (standard weveform and a mathematical expression) Interpolation (straight line, spline, and continuous spline) Math operation (addition, subtraction, multiplication, and division of waveform) Contraction and extension (vertical and horizontal directions) Cuts, copies, and pastes some part of waveform Undo function Saves and reads arbitrary waveform data to/from a file. Waveforms can be edited without connecting the device.		
Display functions	Zoom in/out Scroll Display unit (coordinates) selectable		
Transfer function	Cursor (A, B) Transfers and reads	arbitrary waveform data to/from the device.	
Device control function	Major parameter set		
Operating environment		ing environment for the Sequence Editor.	
(viewerLITE ⁻³			
Functions	Reads the waveform data. (WVFMDF format) Displays the waveform. (main, zoom, history and X-Y) Saves the waveform data to ascii and text. Displays the waveform parameter value. Cursor Cursor		

- Unless otherwise specified, the value assumes the following conditions: continuous oscillation, load of 50 Ω, DC
 offset setting of 0 V, auto range, waveform amplitude range of ±FS, external addition turned off; the AC voltage is
 rms value.
- **1: Guaranteed numerical value. Other numerical values are nominal or typcal (typ.) values.
 **2: Used after converted into arbitrary waveform.
 **3: It can be downloaded from the web site.
 **4: Condition: 1 kHz sine, amplitude setting of 20 mVp-p/open or higher.

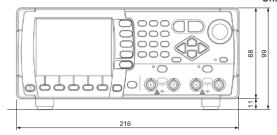
Model	Suffix Code	Description
FG410		Arbitrary/Function Generator: 1-Channel, 30 MHz
FG420		Arbitrary/Function Generator: 2-Channel, 30 MHz
Power cord	-D	UL/CSA standard, PSE
	-F	VDE standard
	-R	AS standard
	-Q	BS standard
	-H	GB standard
	-N	NBR standard

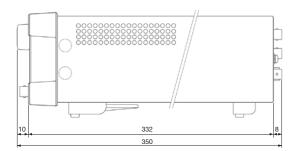
Standard Accessories;

Power cord (1 set), User's manuals and application software (1 set)

Model/ parts number	Product	Description
705928	Multi input/output cable	For sweep/sequence control
751537-E2	Rack mount kit	Inch rack mounting (for 1 unit)
751537-J2	Rack mount kit	Millimeter rack mounting (for 1 unit)
751538-E2	Rack mount kit	Inch rack mounting (for 2 units)
751538-J2	Rack mount kit	Millimeter rack mounting (for 2 units)







Related Products

ScopeCorder DL850E/DL850EV

- 17 types of plug-in modules (voltage, temperature, strain, acceleration, frequency, logic, CAN, LIN)
- High-speed (up to 100 MS/s), High resolution (up to 16-bit), Isolated (up to 1 kV)
- 128-CH voltage/temperature, 128-bit logic measurement



Mixed Signal Oscilloscope **DLM4000**

- 8 analog channels/7 analog channels + 8-bit logic
- 350 MHz, 500 MHz analog bandwidth
- Large 12.1-inch LCD display
- Long memory: Up to 125 M points



Mixed Signal Oscilloscope **DLM2000**

- Lightweight and compact
- 200 MHz, 350 MHz, 500 MHz analog
- 4 analog channels/3 analog channels + 8-bit logic
- Long memory: Up to 125 M points



Notice

- Before operating the product, read the user's manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa offices.

This is a Class A instrument based on Emission standards EN61326-1, and is designed for

an industrial environment.

Operation of this equipment in a residential area may cause radio interference, in which case users will be responsible for any interference which they cause.

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