




## WAVE FACTORY Lineup / Selection Guide

		30 MHz				200 MHz	
Model name		WF1973	WF1974	WF1947	WF1948	WF1967	WF1968
Product name		Multifunction generator		Multifunction generator		Multifunction generator	
Appearance		 WF1973		 WF1948		 WF1968	
Oscillation frequency		0.01 μHz to 30 MHz		0.01 μHz to 30 MHz		0.01 μHz to 200 MHz	
Number of Channels		1	2	1	2	1	2
Vertical resolution for waveform		14 bits		16 bits		16 bits	
Waveform and frequency range	~	0.01 μHz to 30 MHz		0.01 μHz to 30 MHz		0.01 μHz to 200 MHz	
	▭ (duty fixed)	0.01 μHz to 15 MHz		0.01 μHz to 20 MHz		0.01 μHz to 70 MHz	
	▭ (duty variable)						
	▭	0.01 μHz to 15 MHz		0.01 μHz to 20 MHz		0.01 μHz to 70 MHz	
	~ (symmetry variable)	0.01 μHz to 5 MHz		0.01 μHz to 5 MHz		0.01 μHz to 20 MHz	
	Parameter-variable waveforms (25 types)	0.01 μHz to 5 MHz		—		0.01 μHz to 20 MHz	
	Arbitrary waveform	0.01 μHz to 5 MHz		0.01 μHz to 5 MHz		0.01 μHz to 20 MHz	
	Noise	Bandwidth: 26 MHz		Bandwidth: 26 MHz		Equivalent bandwidth: Select from 100 M / 30 M / 10 M / 3 M / 1 M / 300 k / 100 kHz	
Frequency setting resolution		0.01 μHz (WF1967 / WF1968: 0.1 μHz at 50 MHz or greater)					
Rising / falling variable		Pulse: 15 ns to 58.8 Ms		Pulse: 15 ns to 62.5 Ms		Pulse: 4.21 ns to 58.8 Ms	
Arbitrary waveform data length / number of waves		512 K words / 128 waves, 4 M words				4 Ki to 1 Mi words / 128 waves, 4 Mi words *1	
Maximum output voltage / resolution		20 Vp-p / open, 10 Vp-p / 50 Ω (WF1967 / WF1968: amplitude ±2 V / open when exceeding 110 MHz) Resolution: 0.1 mVp-p or 1 mVp-p (depending on conditions)					
Oscillation mode	Continuous oscillation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Burst / trigger / gate / triggered gate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Sweep	Frequency, phase, amplitude, DC offset, duty ratio		Frequency, phase, amplitude, DC offset, duty ratio		Frequency, phase, amplitude, DC offset, duty ratio	
	Internal modulation	FM, FSK, PM, PSK, AM, DC offset and PWM		FM, FSK, PM, PSK, AM, DC offset and PWM		FM, FSK, PM, PSK, AM, DC offset and PWM	
	External modulation	FM, FSK, PM, PSK, AM, DC offset and PWM		FM, FSK, PM, PSK, AM, DC offset and PWM		FM, FSK, PM, PSK, AM, DC offset and PWM	
	Burst + modulation / Sweep + modulation	—	—	—	—	<input type="radio"/>	<input type="radio"/>
	Sequence	<input type="radio"/>	<input type="radio"/>	—	—	<input type="radio"/>	<input type="radio"/>
Two channel mode	—	<input type="radio"/>	—	<input type="radio"/>	—	<input type="radio"/>	
Synchronous operation		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Synclator Function		—	—	—	—	<input type="radio"/>	<input type="radio"/>
Synchronization / Sub-output		Sync signals / Internal modulation signal / Sweep X drive		Sync signals / Internal modulation signal / Sweep X drive		Sync signals / Internal modulation signal / Sweep X drive / Sub-waveform *3	
Input / output floating		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Isolation between channels		—	<input type="radio"/>	—	<input type="radio"/>	—	<input type="radio"/>
External addition		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GPIB interface		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
USB interface		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Color LCD display		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Arbitrary Waveform Editor		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sequence Editor		<input type="radio"/>	<input type="radio"/>	—	—	<input type="radio"/>	<input type="radio"/>
Power supply		90 V to 250 V AC		90 V to 250 V AC		90 V to 250 V AC	
Power consumption		50 VA or less	75 VA or less	50 VA or less	75 VA or less	65 VA or less	85 VA or less
External dimensions (mm) *2		216 (W) × 88 (H) × 332 (D)		216 (W) × 132.5 (H) × 288 (D)		216 (W) × 132.5 (H) × 332 (D)	
Weight		approx. 2.1 kg	approx. 2.1 kg	approx. 2.1 kg	approx. 2.1 kg	approx. 3.0 kg	

\* 1 Ki: 2<sup>10</sup>=1024, Mi: 2<sup>20</sup>=1048576

\* 2 Not including projections

\* 3 Available waveform: sine, square (duty 50 %), triangle (symmetry 50 %), rising ramp, falling ramp, noise and arbitrary waveform.