Function Signal Generators

Model: 2015H 2040H 2060H

General Information

Model	2015H	2040H	2060H
Display	2.4-inch TFT Colored LCD		
Storage and Load	QTY:100 / Position: 00 to 99		
Arbitrary Wave	1 to 60 (15 groups by default as power on)		
Interface	Interface mode: USB to Serial Interface Extension Interface: with TTL level mode serial interface for user development Communication speed: Standard 115200bps		
Power Supply	DC5V±0.5V		
Product Size	194mmx178mmx69mm		
Product Weight	1.2kg		
Standard Accessories	USB Cable/Manual/Test Leads (Clip Type)/Test Leads (Plug Type)/Software CD/AC Adaptor		

Features

Wave Form Features

Wave form type	Sine/Square/Pulse (adjustable duty cycle, precise adjustment of pulse width and period)/Triangular/Partial Sine/CMOS/DC Level (set DC amplitude by adjusting offset)/Half/ Full/Positive Staircase/Anti-ladder/Noise/Exponential Rise/Exponential Drop /Multi-sonic / Symplectic Pulse/Lorenz Pulse/60 arbitrary Wave forms
Wave form length	2048 points
Wave form sampling rate	266Msa/s
Wave form vertical resolution	14 bits
Sine wave	Harmonic suppression ≥45dBc (<1MHz);≥40dBc(1MHz-20MHz) Total harmonic distortion <0.8%(20Hz-20KHz.0dBm)
Square/Pulse wave	Overshoot ≤5%
Pulse wave	Duty cycle adjustment 0.1%-99.9%

Output Features

Sine wave amplitude	Frequency≤10MHz	2mV-20Vpp
	10MHz≥Frequency≤30MHz	2mV-10Vpp
	Frequency≥30MHz	2mV-5Vpp
Square/Triangle wave amplitude	Frequency≤10MHz	2mV-20Vpp
	10MHz≥Frequency≤30MHz	2mV-5Vpp
Amplitude resolution	1mV	
Amplitude stability	±0.5%/5hours	
Flatness of amplitude	±0.5%(<10MHz);±10%(>10MHz)	

Specifications

Model	2015H	2040H	2060H
Sine wave frequency	0-15MHz	0-40MHz	0-60MHz
Square/Triangle wave frequency	0-15MHz	0-15MHz	0-15MHz
Pulse wave frequency			
TTL digital wave frequency	0-6MHz	0-6MHz	0-6MHz
Arbitrary wave frequency			
Pulse width adjustment	150nS-4000S	40nS-4000S	30nS-4000S
Square wave rise time	≤25ns	≤15ns	≤15ns
Min. frequency resolution	0.01uHz(0.00000001Hz)		
Frequency accuracy	±20ppm		
Frequency stability	±1ppm/3hours		
Wave Form Output			
Output impedance	50Ω±10%(Typical)		
Protection	All signal outputs can work with 60 when the load is short circuited		
Offset			
Offset adjustment range	Output amplitude>2V -9.99V~9.99V 0.2V<Output amplitude≤2V -2.5V~2.5V 0<Output amplitude≤0.2V -0.25V~0.25V		
Offset resolution	0.01V		
Phase			
Phase adjustment range	0~359.9°		
Phase resolution	0.1°		
TTL/CMOS Output			
Low level	<0.3V		
High level	1V~10V		
Level rise/Fall time	≤20ns		
Measurement			
Frequency function	Range 1Hz~100MHz/Gate time 0.01S~10s continuous adjustment		
Counter function	Range: 0-4294967295 / DC/AC coupling / Manual operation		
Input signal voltage range	2vpp~20vpp		
Pulse measurement	Resolution 0.01us, up to 20s		
Cycle measurement	Resolution 0.01us, up to 20s		
Sweep			
Sweep channel	CH1 or CH2		
Sweep type	Linear sweep, Logarthmic sweep		
Sweep time	0.1s~999.9s		
Setting range	Any setting between the Max. output frequency of the corresponding model of the starting point (0.01Hz) and the end point		
Sweep direction	Forward/Reverse/Round trip		
Trigger			
Number of pulses	1-1048575		
Trigger Mode	Manual/CH2/External (AC)/External (DC)		