

Arbitrary Wave Generator
Features

- High frequency accuracy, up to 10⁻⁵ order of magnitude.
- High frequency resolution: Frequency resolution 40mHz in full range(expansion to 40μHz)
- 32 types of waveforms
- It can set accurate duty for pulse waveform
- It can output AM & FM signal



MODEL	YB3005A	YB3010A	YB3015A	YB3020A	YB3030A	YB3040A
Wave form	Sine, rectangular, triple, pulse, rise ramp, fall ramp, random noise, SIN(x)/x, rise log, fall log etc.					
Frequency Characteristics						
Sine	1μHz~ 5MHz	1μHz~ 10MHz	1μHz~ 15MHz	1μHz~ 20MHz	1μHz~ 30MHz	1μHz~ 40MHz
Rectangular	1μHz~ 5MHz	1μHz~10MHz				
Other wave form	1μHz~10MHz					
Max resolution	8 digital or 0.1μHz					
Long stability	50ppm					
Arbitrary wave form						
Storage length	32k(32768)pixel					
Amplitude resolution	14bits(include symbol)					
Sample rate	100MSa/s					
Nonvolatile Storage	4 32k wave form					
Signal Characteristics						
Rectangular rise time	≤20ns					
Over shot	≤5%					
Rectangular asymmetry (1kHz)	<1%					
Pulse duty cycle adjust	0.1~99.9%(<10kHz) - 1%~99%(10kHz~100kHz) - 3%~97%(< 1MHz)					
Triple , ramp (1kHz)	<0.1%					
Output A						
Amplitude range	2mVpp~20Vpp(High resistance); 1mVpp~10Vpp(50Ω)			2mVpp~6Vpp(High resistance); 1mVpp~3Vpp(50Ω)		
Attenuation error(1kHz)	<5%					
Frequency response(1Vpp, base 1kHz)	<5%					
Setup ratio range (5Vpp)	-100%~100%					
Input impedance	50Ω					
Output B						
Wave form	building in wave form					
Amplitude	200mVpp~20Vpp(High resistance); 100mVpp~10Vpp(600Ω)					
Output impedance	600Ω					
Frequency range	0.1Hz~20KHz					

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MODEL	YB3005A	YB3010A	YB3015A	YB3020A	YB3030A	YB3040A
Sweep Frequency						
Type	Line or logarithm					
Direction	Positive or negative					
Start/End	1Hz ~ 5MHz	1Hz ~ 10MHz	1Hz ~ 15MHz	1Hz ~ 20MHz	1Hz ~ 30MHz	1Hz ~ 40MHz
Time setup range	10ms~40s					
FSK, PSK, ASK, BURST						
Pulse, interval	10 μ s~100s					
Trig mode	Internal, external, single					
Carrier frequency	1Hz~top frequency					
Carrier wave form	wave form in					
Phrase	-360~360					
Burst pulse number	1~65535					
AM						
AM wave form	Any build-in wave form					
Module frequency	100mHz~10kHz					
Modulation	0%~100%					
Source	Internal/External					
FM						
Carrier wave form	Any build-in function wave form					
Module frequency	100mHz~10kHz					
FS setup range	1Hz ~ 5MHz	1Hz ~ 10MHz	1Hz ~ 15MHz	1Hz ~ 20MHz	1Hz ~ 30MHz	1Hz ~ 40MHz
Source	Internal					
Phrase Module						
Carrier wave form	Sine, rectangular					
Module frequency	100mHz~10kHz					
Max. phrase shift	360 degree					
Source	Internal					
Frequency counter						
Frequency	1Hz~100MHz					
Input voltage	> 100mV					
Storage Characteristics						
Save/Recall	20 \uparrow					
Physical Characteristics						
Power supply	AC 200V \pm 10% ; 50Hz \pm 5%					
Dimension	95H \times 245W \times 340D(mm)					
Weight	Approx 2kg					

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