

Function/Arbitrary Waveform Generator

TENMA™


Features

- 100MHz/120MHz/160MHz sine waveform output, 1 μ Hz full-band resolution
- 30MHz/40MHz/50MHz pulse waveform, adjustable rise/fall time
- 500MSa/s sample rate, 14bit vertical resolution
- Standard dual channels, supporting stand-alone or channel-coupling output mode
- 512k points arbitrary waveform storage, 8 waveforms for nonvolatile memory
- Versatile modulation choices: AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM
- 8 Inches high resolution colour TFT display
- Standard Ports: USB Host, USB Device, LAN, 10MHz input/output

Specifications

Characteristics	72-14120	72-14122	72-14126
Channels	2		
Bandwidth	80MHz	120MHz	160MHz
Sample Rate	500MSa/s		
Waveforms	Sine, Square, Ramp, Harmonic, Pulse, Noise, DC, Arbitrary Waveforms		
Working Mode	Output Gate, Continuous, Modulate, Frequency Sweep, Burst		
Modulation Type	AM, FM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM		
Plug type	EU, UK		
Warranty	36 Months		

Frequency

Sine	1 μ Hz ~ 80MHz	1 μ Hz ~ 120MHz	1 μ Hz ~ 160MHz
Square	1 μ Hz ~ 30MHz	1 μ Hz ~ 40MHz	1 μ Hz ~ 50MHz
Pulse	1 μ Hz ~ 30MHz	1 μ Hz ~ 40MHz	1 μ Hz ~ 50MHz
Ramp	1 μ Hz ~ 2MHz	1 μ Hz ~ 3MHz	1 μ Hz ~ 4MHz
Harmonic	1 μ Hz ~ 40MHz	1 μ Hz ~ 60MHz	1 μ Hz ~ 80MHz
Arbitrary	1 μ Hz ~ 20MHz	1 μ Hz ~ 30MHz	1 μ Hz ~ 40MHz
Noise	80MHz bandwidth	120MHz bandwidth	160MHz bandwidth

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Output Characteristic

Amplitude (50Ω load)	≤20MHz: 1mVpp~10Vpp	≤20MHz: 1mVpp~10Vpp	≤20MHz: 1mVpp~10Vpp
	≤80MHz: 1mVpp~5Vpp	≤80MHz: 1mVpp~5Vpp	≤80MHz: 1mVpp~5Vpp
	-	≤120MHz: 1mVpp~2.5Vpp	≤120MHz: 1mVpp~2.5Vpp
	-	-	≤160MHz: 1mVpp~1Vpp
Accuracy (1kHz sine)	±(1% of setting value + 1mVpp)		
Amplitude flatness	≤10MHz: ±0.1dB	≤10MHz: ±0.1dB	≤10MHz: ±0.1dB
	≤80MHz: ±0.2dB	≤80MHz: ±0.2dB	≤80MHz: ±0.2dB
	-	≤120MHz: ±0.4dB	≤120MHz: ±0.4dB
	-	-	≤160MHz: ±0.8dB
Arbitrary			
Waveform Length(Max.)	8~32Mpts		
Vertical Resolution	16bits		
Min Fall/Rise Time	<7ns	<6ns	< 5ns
Jitter(RMS)(typical)	6ns+30ppm		
Nonvolatile Memory	7GB		

Digital Arbitrary Waveform (Optional)

Waveform Length	1~1k bits
Sampling Rate	1Sa/s~40MSa/s
Transmission Mode	Manual single trigger, continuous trigger (no time delay)
Waveform Resolution	16 bits maximum
Output Voltage Level	TTL

DC Offset

Range(Peak AC+DC)	±5V (50Ω); ±10V (High resistance)
Offset Accuracy	±(2% of Offset setting + 0.5% of amplitude + 2mV)

General Characteristics

Power	100 ~ 240V ACrms, 45~440Hz
Display	8 Inches TFT Colour LCD Display with WVGA(800*480 Resolution)
Product Colour	White and Gray
Product Net Weight	3.5kg
Product Size (W×H×D)	336mm × 164mm × 108mm

Accessories

Standard Accessories	BNC Cable, Power Cord, USB Cable & PC Software CD
Optional components	Digital interface

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Part Number Table

Description	Part Number
Function/Arbitrary Waveform Generators	72-14120
	72-14122
	72-14126

