

AE-3400A

50MHZ AWG FUNCTION GENERATOR

- **Direct Digital Synthesis and Arbitrary Waveform** generator of $1\mu\text{Hz}$ resolution
- Built-in linear /logarithmic sweeps (1ms~500s)
- Internal modulations of AM/FM/PM/FSK & PWM for waveform adjustment
- BURST mode with selectable cycles per period
- Remote control via USB, LAN or optional GPIB interface, supports IEEE-488.2, SCPI-1993
- Supports external frequency synchronization
- Data transmission via Pattern out (16-bit data)
- Graphic mode for visual verification of signal settings



REF: 013400A0000

☑ CE (EMC), ☐ UL, ☐ CE (LVD)

Technical specifications

Frequency range: $1\mu\text{Hz}$ ~50MHz

Output waveform: sine, square, ramp, triangle, pulse, noise, DC and rising /falling index, negative ramp, $\sin(x)/x$, cardiac, etc.

Waveform range:

Sine: $1\mu\text{Hz}$ ~ 50MHz

Square: $1\mu\text{Hz}$ ~ 25MHz

Ramp, triangle: $1\mu\text{Hz}$ ~ 200kHz

Pulse: 500 μHz ~ 10MkHz

Noise: 20MHz typical

Arbitrary waveform:

Range: $1\mu\text{Hz}$ ~ 10MHz

Wave length: 2~256k

Amplitude resolution: 14 bits

Sampling rate: 125M Sa/s

Non-volatile memory: 4 waveforms *256k

Square wave: rise time $\leq 10\text{ns}$, overshoot $\leq 2\%$

Duty cycle: 20% ~ 80%

Linearity of triangle and ramp: $< 0.1\%$

Output amplitude: 10mVpp ~ 20Vpp, 50 Ω

DC offset: $\pm 5\text{V}$

Frequency stability: $\pm 20\text{ppm}$ in 1 year

AM: depth 0%~120%, 2mHz~20kHz, Inner/Ext

FM: offset 0~25MHz, 2mHz~20kHz, Inner/Ext

PM: offset 0° ~ 360°, 2mHz~20kHz, Inner/Ext

PWM: offset 0%~100%, 2mHz~20kHz, Inner/Ext

FSK: 50% square, 2mHz~100kHz, Inner/Ext

SWEEP: linear/logarithm, 1ms~500s, up/down

BURST: 1~50,000 cycles, 1 μs ~500s, Inner/Ext

Trigger input /output

Power supply: AC110~240V/50~60Hz, $\pm 10\%$

Dimensions: 224(W)x107(H)x380(D)mm

Weight: 4.08kgs approx.