

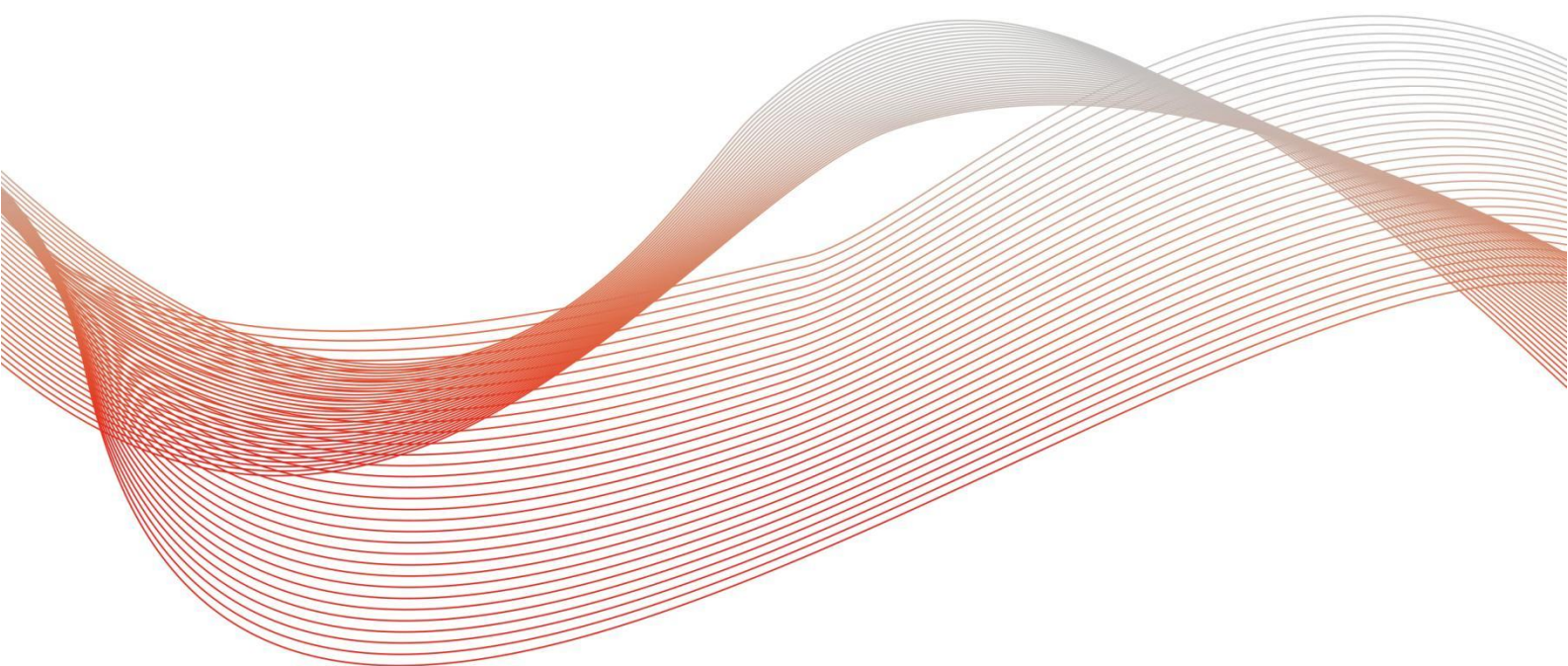


杭州爱华仪器有限公司
HANGZHOU AIHUA INSTRUMENTS CO.,LTD.

AWA14617 Preamplifier Instruction Manual

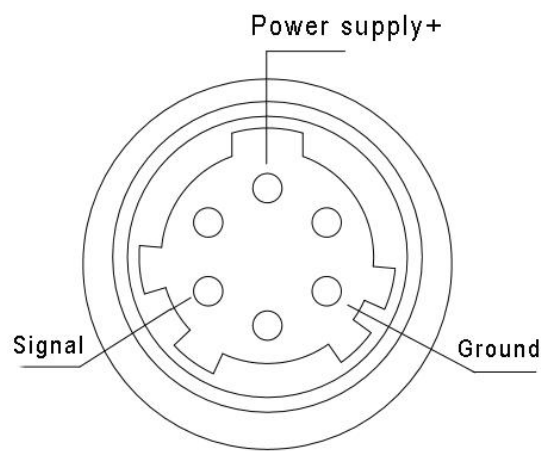
Hangzhou Aihua Instruments Co., Ltd.

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The Model AWA14617 preamplifier is an impedance converter characterized by high input impedance and low output impedance; it is primarily designed for use with measurement condenser microphones and other acoustic measurement instruments to conduct acoustic measurements. It is compatible with $\phi 6.35$ mm (1/4-inch) condenser microphones.

The Model AWA14617 preamplifier utilizes an x9 connector; the connection diagram is shown below:



The AWA14617 is compatible only with prepolarized measurement condenser microphones that do not require a polarization voltage; its technical specifications are listed in the table below:

Model		AWA14617
Drawing Number		AQV3.838.062
Key Technical Requirements	Frequency range	20Hz~20kHz ± 0.2 dB 10Hz~200kHz ± 0.5 dB
	Linear range	30dB~143dB
	Total distortion	<0.2%
	Transmission loss	0dB ⁺⁰ _{-0.5} dB
	Input resistance	≥ 2 G Ω

	Input capacitance	$\leq 1\text{pF}$
	Output impedance	$\leq 1000\ \Omega$
	Self-generated noise	A-weighted $\leq 15\text{ dB}$, C-weighted $\leq 20\text{ dB}$, Z-weighted $\leq 25\text{ dB}$ (20 Hz – 20 kHz)
	Operating voltage	9V~60V
	Polarization voltage	0V
Compatible microphone		ϕ 6.35 mm prepolarized measurement condenser microphone.



爱 华

杭州爱华仪器有限公司

HANGZHOU AIHUA INSTRUMENTS CO.,LTD.

Address: No.37 Xianxing Rd Xianlin Town Yuhang District Hangzhou Zhejiang China

Phone: +86-19012832378

Email: marketing@hzaihua.com

Website: <https://www.hzaihua.com/>