

Microphone Sets

Z-TECH offers a diversity of microphone sets tailored to various applications, catering to the unique needs of our customers. These microphone sets are equipped with BNC or SMB slots, facilitating seamless integration with a wide spectrum of professional measurement systems.

Our microphone sets feature ZT measurement microphone cartridges, renowned for their utilization of a top-tier titanium film structure. This structural design ensures unparalleled stability and accuracy, even when subjected to challenging environmental conditions. The meticulous assembly of these microphones takes place within a controlled clean-room environment, underscoring our dedication to precision. Prior to departure from the factory, each individual microphone cartridge undergoes rigorous aging tests to guarantee superior performance and longevity.

Z-TECH's commitment to delivering exceptional quality and reliability is evident in every facet of our microphone sets, making them an ideal choice for a myriad of applications.

Microphone Sets

	ZT-331-507 microphone set	ZT-333-507 microphone set	ZT-371-507 microphone set	ZT-341-547 microphone set	ZT-343-547 microphone set	ZT-351-547 microphone set	ZT-363 array microphone set
Picture							
Diameter	1/2 inch	1/2 inch	1/2 inch	1/4 inch	1/4 inch	1/4 inch	1/4 inch
Sound field type	Free field type	Free field type	Free field type	Free field type	Free field type	Free field type	Free field type
Sensitivity, mV/Pa (dBV/Pa)	40 mV (-28 dB) ± 2 dB	50 mV (-26 dB) ± 2 dB	12.5 mV (-38 dB) ± 2 dB	4mV±3dB / -48dBV/Pa±3dB	4mV±3dB / -48dBV/Pa±3dB	15.8mV±2dB / -36dBV/Pa±2dB	50mV (-26 dB) ± 2 dB
Frequency response range	3.15 Hz - 16 kHz (±2 dB)	10 Hz - 20 kHz (±2 dB)	10 Hz - 40 kHz (±2 dB)	4 Hz - 40 kHz (±2 dB)	10 Hz - 90 kHz (±2 dB)	4 Hz - 40 kHz (±2 dB)	20 Hz - 20 kHz (±2 dB)
Polarization voltage	0V	0V	0V	0V	0V	0V	0V
Dynamic range (based on 20 uPa)	16 - 138dB	16 - 138dB	20 - 150dB	30 - 160dB	30 - 160dB	20 - 140dB	30 - 126dB
Upper limit of dynamic range (based on 20 uPa)	≥138dB (250Hz, distortion < 3%)	≥138dB (250Hz, distortion < 3%)	≥150dB (250Hz, distortion < 3%)	≥160dB (250Hz, distortion < 3%)	≥160dB (250Hz, distortion < 3%)	≥140dB (250Hz, distortion < 3%)	≥126dB (250Hz, distortion < 3%)
Equivalent noise (based on 20 uPa)	≤16dBA (250Hz)	≤16dBA (250Hz)	≤20dBA (250Hz)	≤30dBA (250Hz)	≤30dBA (250Hz)	≤20dBA (250Hz)	≤30dBA (250Hz)
Range of operating temperature	-20°C ~ +60°C	-30°C ~ +70°C	-30°C ~ +70°C	-20°C ~ +60°C	-30°C ~ +70°C	-20°C ~ +60°C	-10°C ~ +50°C
Temperature coefficient	0.012dB / °C (-10°C ~ +50°C, 250Hz)	0.012dB / °C (-10°C ~ +50°C, 250Hz)	0.005dB / °C (-10°C ~ +50°C, 250Hz)	0.012dB / °C (-10°C ~ +50°C, 250Hz)	0.01dB / °C (-10°C ~ +50°C, 250Hz)	0.015dB / °C (-10°C ~ +50°C, 250Hz)	0.01dB / °C (-10°C ~ +50°C, 250Hz)
Static pressure coefficient	-0.01dB / kPa	-0.01dB / kPa	-0.01dB / kPa	-0.01dB / kPa	-0.01dB / kPa	-0.01dB / kPa	-0.01dB / kPa
Relative humidity range	0 ~ 90% (without condensation)	0 ~ 90% (without condensation)	0 ~ 90% (without condensation)	0 ~ 90% (without condensation)	0 ~ 90% (without condensation)	0 ~ 90% (without condensation)	0 ~ 90% (without condensation)
Relative humidity coefficient	<0.1dB (0 - 90% without condensation)	<0.1dB (0 - 90% without condensation)	<0.1dB (0 - 90% without condensation)	<0.1dB (0 - 90% without condensation)	<0.1dB (0 - 90% without condensation)	<0.1dB (0 - 90% without condensation)	<0.1dB (0 - 90% without condensation)
Pressure equalization method	Post-pressure equalization	Post-pressure equalization	Post-pressure equalization	Post-pressure equalization	Post-pressure equalization	Post-pressure equalization	Post-pressure equalization
Input impedance	>10GΩ/0.5pF	>10GΩ/0.5pF	>10GΩ/0.5pF	>2GΩ/50pF	>2GΩ/50pF	>2GΩ/50pF	>10GΩ/0.5pF
Output impedance	<20Ω, <0.1%	<20Ω, <0.1%	<20Ω, <0.1%	<20Ω	<20Ω	<20Ω	<20Ω, <0.1%
Power supply	IEPE (2mA - 10mA)	ICP (2mA - 10mA)	ICP (2mA - 10mA)	ICP (2mA - 10mA)	ICP (2mA - 10mA)	ICP (2mA - 10mA)	ICP (2mA - 10mA)
Rated operational current	4mA	4mA	4mA	4mA	4mA	4mA	4mA
Noise (A-weighted)	<3μVrms	<3μVrms	<3μVrms	<3μVrms	<3μVrms	<3μVrms	<3μVrms
Linearity (20 - 20 KHz)	<10μVrms	<10μVrms	<10μVrms	<10μVrms	<10μVrms	<10μVrms	<10μVrms
Gain	-0.7dB	-0.7dB	-0.7dB	-1.2dB	-1.2dB	-1.2dB	-0.7dB
Connector	BNC port	BNC port	BNC port	SMB port	SMB port	SMB port	SMB port