

Desktop dual microphone array



Key Feature

1. Far field pickup up to **2 meter** by dual mic array.
2. Voice beam focus on ± 20 degree
3. Distance between two microphone not less 4cm
4. Adaptive noise cancellation 0.6~20dB attenuation
5. Voice enhancement by High order Equalizer
6. Very low noise microphone pre-amp
7. Easy to use on common XLR interface
8. Advance digital signal process
9. Echo cancellation up to 32ms tail time (TBD.)
10. Support phantom voltage supply from 8 to 60V
11. Extreme low power consumption under 65mW

The Technology of microphone array

The basic concept of beam forming is calculating the difference in wave arrival time between dual microphone elements. The beam forming doesn't introduce non-linear distortion making the natural sound recording.

MWE06 circuit includes three major blocks as following.

- Digital signal process (DSP): The audio algorithm has several major functions such as mic array, noise reduction, Equalizer, AGC, Noise gate, Dynamic range compression/depression, Echo cancellation and more.
- Power unit: Wide input voltage and lowest system consumption are support phantom power without extra power source.

- Audio AD/DA: High quality ADC/DAC are the key to achieved best audio/voice recording, also implement the Mic pre-amp and DAC buffer to drive prefect audio recoding.

Operation behavior



