

# SM46

### Market Applications

The birth and application of self-adaptive sound field processors will enable existing audio systems to achieve the best sound field effects, leveraging the sound field processing capabilities that cannot be replaced by other sound processors in the international industry. They are truly artificial intelligence sound engineers. To ensure the quality of audio system engineering and the stability of sound field control, this product plays the role of on-site monitoring and automatic operation and maintenance by a sound engineer. When applied to the upgrade of existing huge cache of audio engineering systems, it will effectively change the sound effect of the original system, improve the audience's excellent listening experience, and bring new and unprecedented best sound effects to end users.

Therefore, we have reason to believe that the invention of this technology and the application of its products in engineering design will become the best partner and indispensable tool for audio workers, and will become a must-have choice for all audio system engineering designs now and in the future.

When choosing this adaptive sound field processor, it is recommended to use the Studiomaster N48 digital audio processor in combination, which can not only improve the original sound quality of the speaker, but also solve the high-quality sound field effect on site. It is a highly advantageous systematic and partner-like audio intelligent work platform.

### Application

Suitable for use in Theme park, Performance rental, Sports venue, Grand theater, LIVE HOUSE, Conference room, Multifunction Room, Cinema, Television Studio, etc.

### Specification

|                          | SM46   |
|--------------------------|--|
| Analog input             | 4 x XLR (left and right channels), +24dBu max              |
| Analog output            | 6 x XLR (left and right: subwoofer+bass+MF+HF), +24dBu max |
| Word clock input         | 1x Input@75 ohms 3vpp on BNC32-192kHz                      |
| Word clock output        | 1x Output@75 ohms 3vpp on BNC32-192kHz                     |
| D/A converter            | dynamic range: 120dB THD+N: - 107dB                        |
| A/D converter            | dynamic range: 120dB THD+N: - 110dB                        |
| Sampling rate            | 44.1 / 48 / 88.2 / 96 / 176.4 / 192 (kHz)                  |
| Electrical specification | AC universal input: 95-245V ; Power consumption: 20W max   |

|                      | (Optional) Measurement microphone M480 |
|----------------------|--|
| Pickup type          | Electret capacitive type               |
| Head diameter        | 1/4 "(7mm)                             |
| Pickup method        | Omni                                   |
| Sensitivity          | 30mV/Pa                                |
| Frequency response   | 20Hz-20kHz                             |
| Max SPL (SPL)        | 130dB                                  |
| Balanced noise level | <30dBA                                 |
| Output impedance     | <600 ohms                              |
| Power supply         | 48V phantom power supply               |

### (Optional)

### Reference Microphone M480



### Microphone Case



### Dedicated low noise audio test cable 15m BXX023

