



DP-X0808

Digital Audio Processor



Draft



The Birth of SAORI



SAORI (Sensitive Accurate Open Reliable Intelligent), introduced by TOA in 1989, was the world's first digital audio signal processor.

Its advanced DSP functions were considered groundbreaking at the time. Before one-touch FBS existed, SAORI used a frequency sweep to identify feedback frequencies, then applied notch filters to suppress feedback.

The entire adjustment process was displayed in real time using a graphic equalizer on SAORI's built-in screen. This technical foundation and experience paved the way for today's FBS (automatic feedback suppression). SAORI was especially valued in venues with difficult installation, tuning and acoustics. Leading venues worldwide, including the Vienna State Opera, adopted it.

The DP-X0808 Legacy

TOA's new DP-X0808 digital audio processor combines more than ten major functions, including FBS, AGC, ANC and Auto Mixer, for meeting rooms, auditoriums, theaters and online meetings.

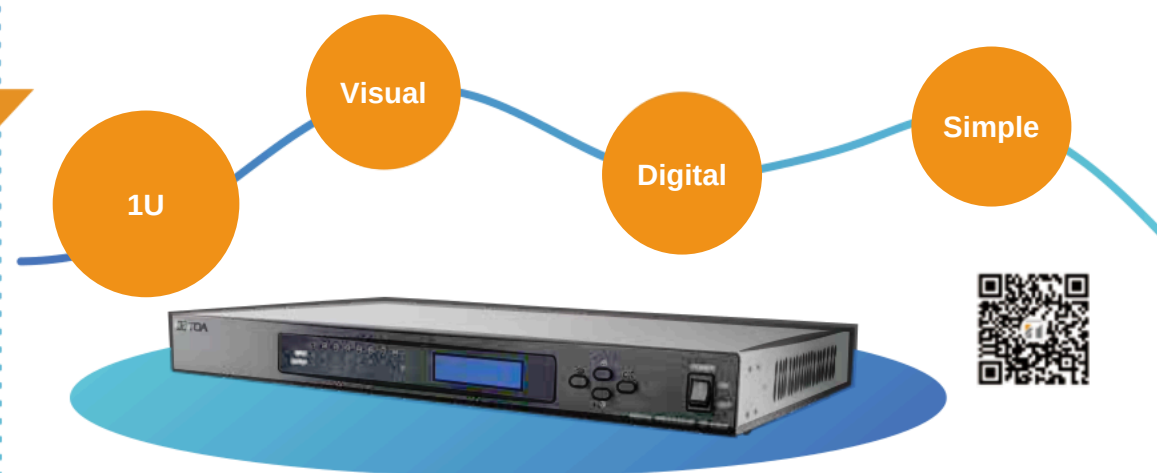
DSP

Features

Feedback Suppression (FBS)	Auto Mixer	Gate
Automatic Gain Control (AGC)	Delay	Matrix
Adaptive Feedback Cancellation (AFC)	Compressor	Paging
Acoustic Echo Cancellation (AEC)	Low-pass Filter (LPF)	Parametric EQ (PEQ)
Ambient Noise Control (ANC)	High-pass Filter (HPF)	

- Supports an external control panel
- Up to 16 inputs: 8 analog, 1 USB stereo, 4 network audio, 2 internal audio files and 14 outputs: 8 analog, 1 USB stereo, 4 network audio

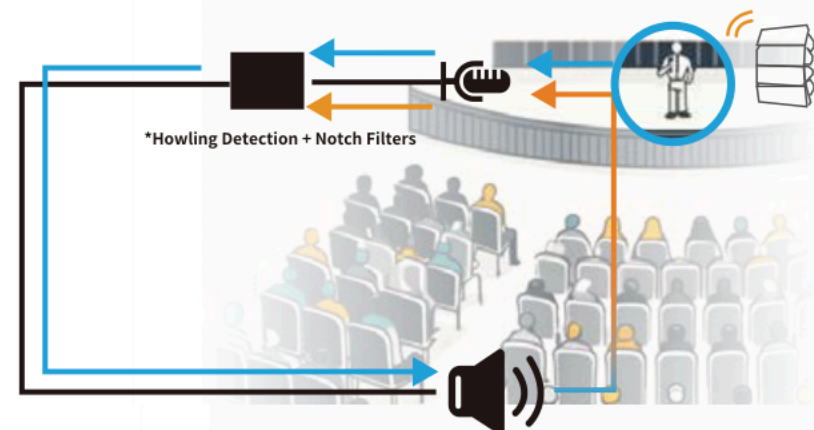
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DSP Application Examples

Feedback Suppression (FBS)

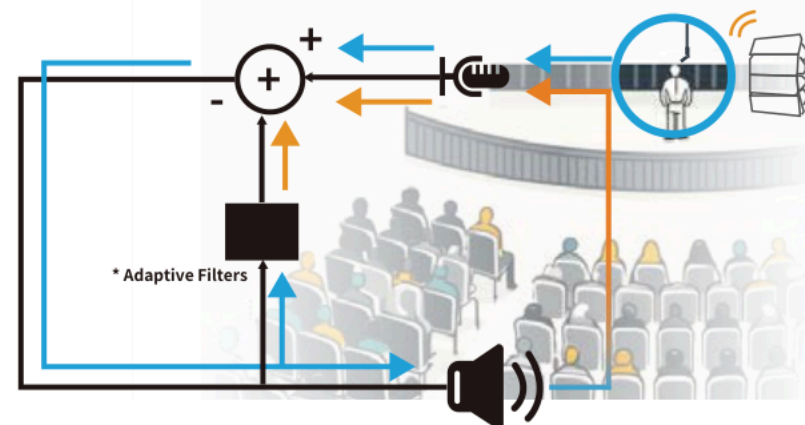
— Voice / Ambient — Line — Speaker



*Howling Detection + Notch Filters

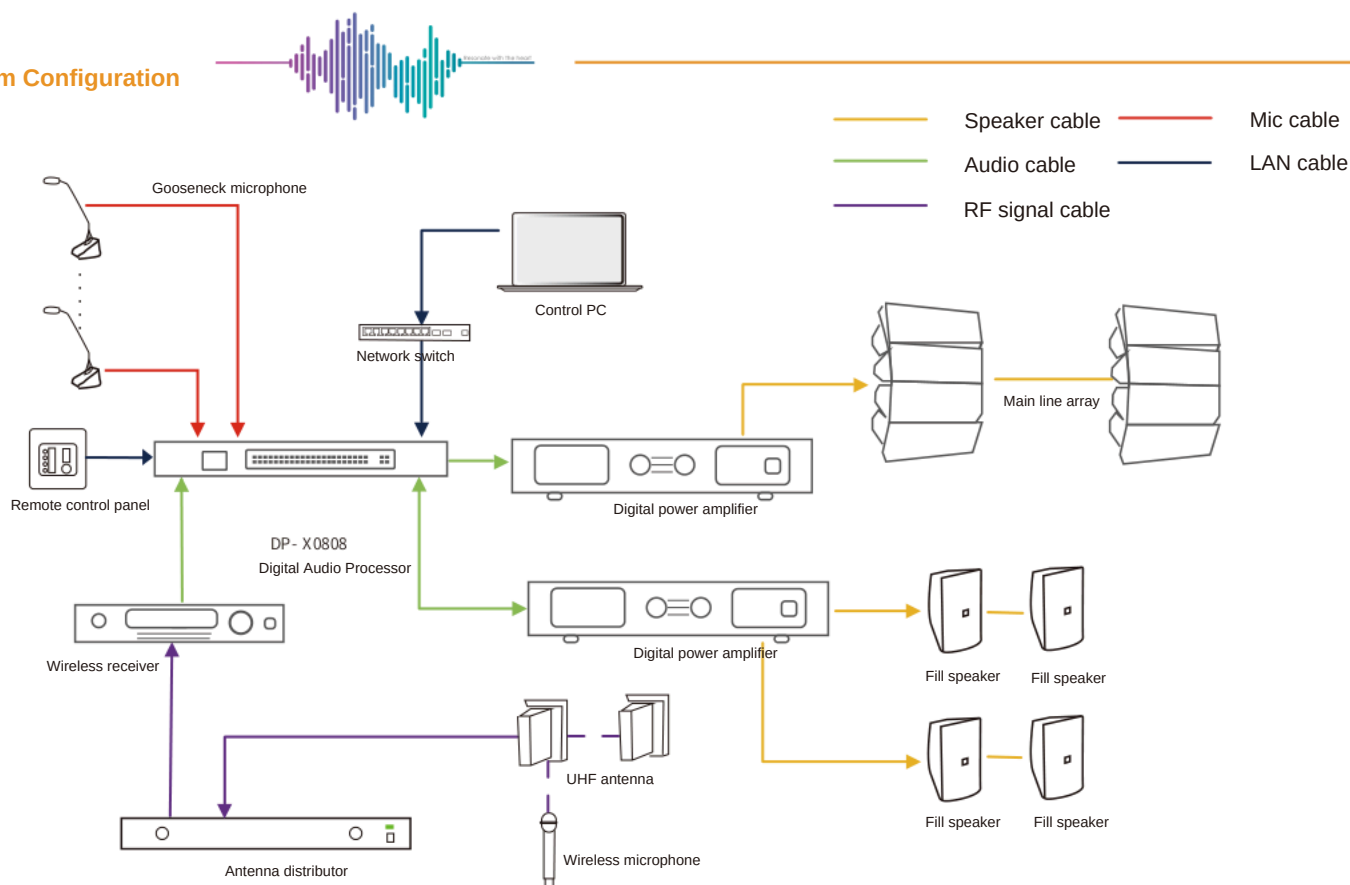
Adaptive Feedback Cancellation (AFC)

— Voice / Ambient — Line — Speaker



* Adaptive Filters

System Configuration



Model DP-X0808-EA

Power supply	AC100V~240V
Frequency response	20Hz - 20kHz, ± 1 dB
Sampling rate	48KHz
Conversion / DSP	24-bit A/D, 24-bit D/A, 16-bit DSP processing
Distortion	$\leq 0.01\%$
DSP functions	FBS/AGC/AFC/AEC/ANC/Auto Mixer/Delay/Compressor/LPF/HPF/GATE/Matrix/Paging/PEQ
Analog audio inputs	Euroblock, 8 channels, selectable mic/line input, phantom power on/off
Analog audio outputs	Euroblock, 8 channels, line output
USB port	1 Type-A port, 1 stereo input, 1 stereo output
Network audio module	1 module slot, 4 network audio inputs, 4 network audio outputs
Control inputs	Euroblock, 8 channels
Control outputs	Euroblock, 8 channels
External control	Euroblock, 1 RS485, 1 RS232
Network port	1 RJ-45 port
Materials	Black anodized aluminum panel; SECC steel, black textured paint
Dimensions	440(W)x44(H)x258(D)mm
Weight	3.1kg



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Specifications subject to change.

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