













ESS HD1/HD10/HD15 are Loudspeaker processors with FIR(Finite Impulse Response) and IIR(Infinite Impulse Response) filter technology. It can effectively solve the phase problem of Loudspeakers, as well as providing IIR filters to adjust different parameters. FIRprocessing technology makes the sound of Loudspeakers more accurate.

## Technical Specifications

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	Input Channels	4 analogue inputs, 1 AES/EBU digital input, 1 optical input
	Output Channels	4 analogue outputs
	Remote control	TCP/IP
	Software	Windows remote software provided
	AD Convertors	48 bit
	Max. Input levels	+22 dBu
	Sampling rate	96kHz
	Max. Output levels	+18 dBu
	Frequency response(-0.5dB)	4Hz-45kHz
	Dynamic range	AD Convertors >130dB(dual range mode) 118dB(single range mode)
		DA Convertors 121dB
		Overall 121dB(dual range mode)
	THD(1kHz)	AD Convertors -113dB(+4dBu) -105dB(0 dBFS)
		DA Convertors -110dB(+4dBu)
		-102dB(+18 dBu)
	Response time	From input to analogue out 1ms
	Routing and gain	Configure all inputs by routing
		Separate gain control for each input/output channel
	Limiter for each channel	Separate limiters for amplifiers and Loudspeakers, thresholds and release time adjustable
	Delay	Separate delay control for each input/output channel
	for each channel	Up to 96 fully parametric high-precision freely configurable IIR filters
		IIR crossover filters with 6-60dB/octave
		Graphic filter/equalizer curves
		Overshoot foreseeing limiters
	FIR filters	1 high-precision FIR for each output channel
		Mixed linear and minimum phase equalization possible
		Max. Frequency resolution: 3Hz
	* Above values ref. 20	Hz-20kHz, linear weighted.

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