

# Digital Audio Processor

ICS-DSP1011/ICS-DSP1012/ICS-DSP1013/ICS-DSP1014



ICS-DSP1011



ICS-DSP1013



ICS-DSP1012



ICS-DSP1014

## Features

- ◆ High-performance floating-point DSP processing chip.
- ◆ Balance XLR 4/8/16.
- ◆ All the input channels support MIC input, with 48V phantom power soft switching (for ICS-DSP1012/13/14 only).
- ◆ All the input channels are with Gain Control, Noise Gate, Automatic Feedback Suppressor, High and Low Pass Filter, Parameter Equalizer (16 segments), Compressor, Delay Timer and Input Marshalling Controller.
- ◆ 8/16 balanced-line electrical levels for output voltage
- ◆ All the input channels are with High and Low Pass Filter, Parameter Equalizer (16 segments), Compressor, Delay Timer and Input Marshalling Controller.
- ◆ 4/8/16 channels for automation
- ◆ Dynamic range: 114dB, ADC, DAC
- ◆ Built-in signal generator: sine wave signal, pink noise, white noise.
- ◆ The front panel carries with input and output volume display lights, error warning light.
- ◆ The panel carries with LCD display monitor, helps display the system status directly.
- ◆ Be open to RS-232 (for ICS-DSP1012/13/14 only) and TCP/IP, the third-part calling-control could be achievable.
- ◆ Enables to output camera tracking code, be conducive to realize camera linkage function through the third-part calling-control.
- ◆ Preset-scene function that is supportive to 32 sets scenes, can be adjusted by RS-232 (for ICS-DSP1012/13/14 only) and TCP/IP.
- ◆ Optional function: AEC (for ICS-DSP1012/13/14 only).
- ◆ Can take control through Ethernet, the operation interface is visualized and the setting is easy and efficient.

## Technical Specifications

Model	ICS-DSP1011	ICS-DSP1012	ICS-DSP1013	ICS-DSP1014
DSP Frequencies, capacity	400Mhz, 400MIPS, 2200 MFLOP			
Core algorithm	matrix mixer and automation; optional: echo cancellation			
Sampling frequency/quantification	48 KHz, 24Bit ADC, 24Bit DAC			
Frequency response	20 Hz~20KHz, +/-0.2dB			
Dynamic range	ADC: 114dB; DAC: 114dB			
THD	<0.0035%: 1kHz@+4dBu; <0.005%: 20Hz~20KHz@+4dBu			
Audio input	4*XLR	8*Phoenix plug	16*Phoenix plug	16*Phoenix plug
	Balance	Balanced microphone/ line-levels		
MIC input	x	√		
Phantom power	x	+48VDC, soft switching		
Microphone preamplifier gain	x	0-40dB stimulative gain, 12dB digital gain		
Default input and output levels	+0 dBu			
Maximum input level	+18dBu			
Input impedance	Balance: >5 KΩ, Unbalance: >3KΩ			
Output impedance	600Ω			
CMRR	>70dB@1KHz			
EIN	<-125dBu, 22Hz~22KHz			
Background noise	-92dBu			
Audio output	8*XLR	8*Phoenix plug	8*Phoenix plug	8*Phoenix plug
	Balance	Balanced microphone/ line-levels		
Nominal output level	0 dBu Line level			
Output impedance	600Ω balance			
Signal crosstalk	>-80dB@1KHz (typical)			
Preset scene	32 sets scenes, can be adjusted by TCP/IP			
Function module	Gain Control, Noise Gate, Automatic Feedback Suppressor, High and Low Pass Filter, Parameter Equalizer (16 segments), Compressor, Delay Timer and Input Marshalling Controller			
Signal generator	sine wave signal, pink noise, white noise.			
AEC	x	optional		
Operating mode	TCP/IP, RS-232	TCP/IP, RS-232, RS-485		
Operational software	WINDOWS	WINDOWS, IOS, Android		
Touch screen on the wall	x	Up to 16		
Dimension (W*D*H)	1U, 483x206x48mm	1U, 480x250x44mm		
Power supply	AC100~240V, 50/60Hz			
Watts	75W			
Working condition	0~40°C			