CS1616　brief introduction

1. Main functional features：

2 low-level inputs, 16 high-level inputs, Bluetooth inputs, U disk(DSD128) playback, optical fiber input (up to 96KHz sampling rate);

16 high-level outputs, 16RCA outputs.

High levels can be mixed and output with other sources.

1.1 DSP function:

Matrix routing function, each output channel selects the input signal source.

16×31 segment PEQ, multi-slope high-low pass function.

16 channels of independent delay adjustment.

Support input EQ, delay, high and low pass filter settings.

1.2 Output Power (14.4V Supply, Including Line Loss)：

RMS: 12x60W+4x80W@4Ω（Bridge 2X200W)

1.3 Complete protection：

Power supply reverse polarity protection, over current protection, under voltage protection, over voltage protection, load-dump protection, power amplifier output short circuit protection, etc.

1.4 **Dual-mode BluetoothV5.0.**

1.5 Start-up mode, switch to ACC or high start-up.

1.6 1.6 Support mobile PC tuning.

1.7 Six EQ modes can be preset.

1.8　Support color screen wire control.

1.9 Dimension：296x193x57mm

1.10 Support lossless playback function. Supported files：

.MP3 .WAV .FLAC .WMA.DSD64/128。

2.Amplifier index

Note: The following indicators and diagrams, using 4Ω load, all use APX515 audio analyzer, indoor ambient temperature is 25°C, and the voltage across the dedicated line power supply is 14.4V。

Parameter		Test condition	Min	Typical	Max	Unit
High input impedance				51		Ω
Low input impedance				15K		Ω
High input voltage		It is formulated according to the pre-amplifier, and when the maximum pre-stage effective value, the power amplifier outputs the maximum power		9.2		Vrms
Low input voltage		It is formulated according to the pre-amplifier, and when the maximum pre-stage effective value, the power amplifier outputs the maximum power		2.5		Vrms
Continuous output power		4Ω load, 1K sine wave, full power continuous load test greater than 20 minutes, THD<1%, A-weighting		60x12 80x4		W
CH1~CH12 **CH1 ~ CH10，Output voltage,maximum**		When the corresponding amplifier channel outputs THD<1%, the RAC outputs THD<0.05%.		2.5		Vrms
Frequency		0~-3dB	20		20K	Hz
THD+N	**PA channel**	4Ω load，60W output		0.8		%

	CH1~CH16	2Vrms output，APX515 input impedance 200KΩ		0.05		%
Noise Level	**PA channel**	4Ω load， A-weighting		-73		dBv
	CH1 ~ CH16	A-weighting，APX515 input impedance 200KΩ		-89		
S/N	**PA channel**	4Ω load，50W output,1K sine wave,A-weighting		95		dB
	CH1 ~ CH16	1Vrms output，APX515 input impedance200KΩ,A-weighting		95		
Dynamic Range AES17	**PA channel**	4Ω load，1Ksine wave,Signal level range-60dB，A-weighting		90		dB
	CH1 ~ CH16	1Vrms output，input impedance 200KΩ,A-weighting		90		
Crosstalk	**PA channel**	4Ω load，50W output,1Ksine wave,A-weighting，		85		dB
	CH1 & CH16	Absolute value		85		
SMPTE	**PA channel**	4Ω load，half power output power output，Frequency1： frequency sweep 40~1kHZ，Frequency 2：7kHZ，Amplitude ratio 4：1.		0.3		%
	CH1 ~ CH16	1Vrms output，APX515 input impedance 200KΩ,A-weighting		0.05		

3.Interface definition：

1、Color screen in-line interface

2. U disk interface

3.USB connection PC computer interface

4. Bluetooth indicator

5. Low level input

6. RCA1~16 output

7.COAX input

8.Optical input

9.12V power interface

10. 13~16CH high-level outputs(Bridge 2X200W)

11. 1~12CH high-level outputs

12. high-level inputs

13. Start mode switch

14.Power LED