



Our mission is to harmonize people and music that transcends time and space.

The moment the needle drops, our goal is to make the music and the listeners the focus, and simply support from the background.

We aim to move people's hearts through the magnificence, delicateness, grandeur, and stillness of music, and overflow the world through our passion of music.



To eliminate all noise and preserve silence.

To create a neutral sound without adding anything.

CSPort is a Japanese audio manufacturer founded in 2014. Starting with the 212PA power amplifier, the C3EQ phono equalizer amplifier, and the LFT1 analog player, our products are used all over the world.

<Origin of the brand name>

Just as ports shield bays from tides and winds, allowing ships to enter and depart, our technology eliminates all noise and creates a heartwarming sound from the in/out of the audio signal. The waves and curved font of our logo symbolize the harmony between people and music, as well as people and society, through the sounds we create. Furthermore, they represent our philosophy of creating warm and comforting sounds through neutrality.

Amplifiers

Using a no-feedback system and superior suppressing noise technology, there isn't any signal other than the audio ensured in the record grooves. Through this process, our technology creates a heartwarming and expressive sound.

Adoption of non-feedback system

We believe that negative feedback circuits cause the audio signal be intermodulated and different from the original sound. In order to emphasize the reproducibility and realism of music, we utilize no feedback. And even with no feedback, using an excellent power supply and high quality components provides sufficient characteristics. That's why it is possible to create an extended sound without restraint.

- Using own development transformer, the configuration of the amplifier stage is simplified. 2 stages: first stage tube and output tube
- Using a straight section of the tube. The optimum plate voltage is reliably set.
- MOS-FETs are mounted between the stages of the tubes. Optimum impedance matching is performed.



Optimized dual regulated power supply

Rectifiers and contacts used in ordinary power supplies are sources of noise. We have knowledge and technology in power supply development for a half of century, and we use switching regulators optimized for audio applications in all our products. An after-analog regulator is placed in the second stage to clear the noise level.

And we have achieved the following

- Stabilized high voltage supply - Power amplifier 212PA: 1,400 V, GM70PA: 1,050 V
- Lighter weight - 212PAM2: 24.5 kg, GM70PA: 28 kg
- The power supply voltage is the same all over the world.

Superior noise control

We have highly reliable noise-processing technology based on our experience in the development of industrial equipment, including those in the medical field. We have put thought and technology into creating a quiet sound without adding anything other than audio signals.

- Filtering techniques that precisely separate normal mode noise from common mode noise
- Originally developed in/out transformers that lower input impedance and suppress thermal resistance noise.
- Circuits and mechanisms that minimize contact points that can generate noise, such as direct vacuum tube board soldering and battery operation.



Monaural Power Amplifier 212PAM2



Vacuum tube type monaural power amplifier with large triode 212E. Plate voltage 1,400V, output 40W.
No-feedback technology creates a three-dimensional and spontaneous sound.



Large triode 212E

The 212E is a transmitter and modulation tube with a plate loss of 275 W, developed by Western Electric in the 1910s. This unit has a plate voltage of 1,400 V and an output of 40 W. The damping factor of 5 or more is achieved by reducing the output power, so it can drive the low frequency range reliably.



*Two models; STC's 4212E (1960-70s) and Jinzhou Electronics's 212E.

Two-stage configuration with C3g

Equipped with the ultra-reliable C3g, developed by Deutsche Telekom for telephone repeaters. The thin grid lines and large distance between electrodes enable high linearity amplification. Using only two tubes of amplification with the 212E, harmonics and mixed-modulation distortions are suppressed through no-feedback.



Original regulated power supply

We utilize a dual regulated power supply with a switching regulator in the first stage and an after-analog regulator in the second stage, which has been optimized for audio based on many years of knowledge in power supply development.



High fidelity input transformer

The input transformer makes up for the lack of gain in the two-stage amplification. It is received by a high linearity transformer with a high permeability super permalloy core and does not add anything extra.



*The input impedance is 1.5 k Ω , and should be driven by equipment with an output impedance of 300 Ω or less.

Stereo Power Amplifier GM70PA



Vacuum tube type stereo power amplifier with direct heating triode GM70. Plate voltage 1,050 V, output 30 W+30 W.
No-feedback technology creates a three-dimensional effect and a sense of presence, and expresses a clear sound.



Original regulated power supply

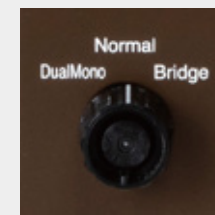
We employ a dual regulated power supply with a switching regulator in the first stage and an after-analog regulator in the second stage.



Normal, Dual, Bridge mode

One more unit can be used as a bi-amp to drive the high and low frequencies. In bridge mode, the output can be driven by 1.5 to 2 times.

*Except in normal mode, it is valid for Lch/XLR input.



Former Soviet triode GM70

Equipped with the former Soviet GM70 with $P_p=125$ W. With a plate voltage of 1,050 V, 30 W+30 W (4 Ω) and 20 W+20 W (8 Ω) output, it can drive low efficiency speakers.

*Two models with graphite plate and copper plate

Two-stage configuration with C3g

Equipped with the ultra-reliable C3g, developed by Deutsche Telekom for telephone repeaters. The thin grid lines and large distance between electrodes enable high linearity amplification. The C3g is soldered directly onto the board to reduce noise at the contact point.



Large output transformers

The large output transformer developed exclusively for this product is installed. Multi-layer sandwich winding drives both small and large signals over a wide bandwidth. Low winding resistance and drive capability, so it has a damping factor of more than 5 despite being a no-feedback amplifier.



Front panel type

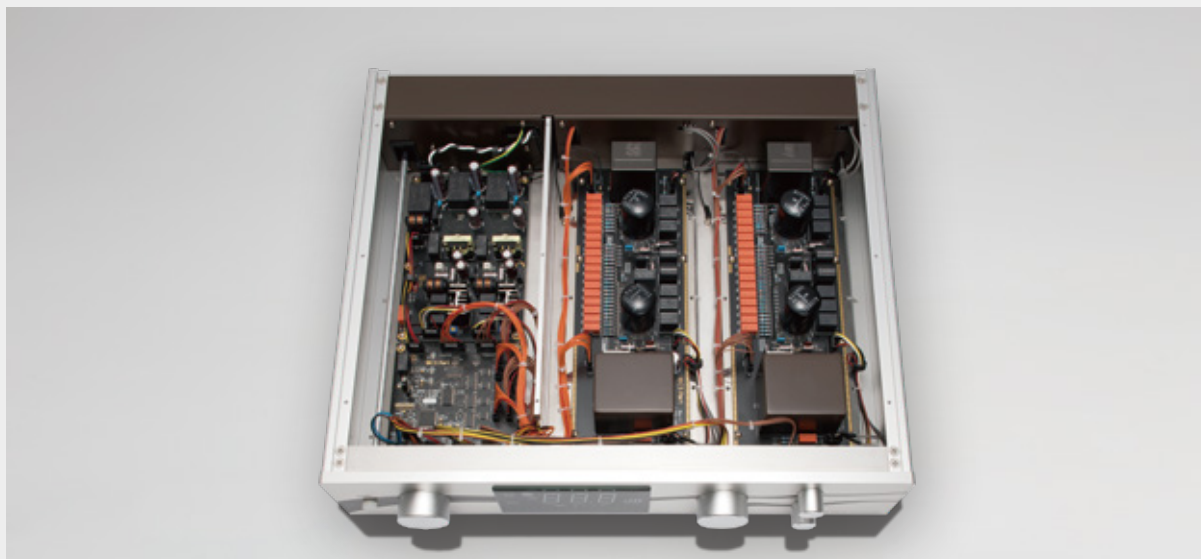
There are two front panels to choose from: one with a graceful design that complements the music, and the other with a wave pattern that expresses harmony with the music.



Stereo Preamplifier C3PR



Tube type preamplifier with reliable tube C3g. High ability to eliminate common mode noise due to noise processing technology based on power supply development. Provides a noise reduction effect.

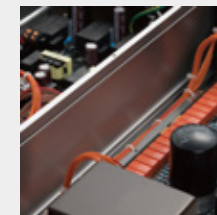


Resistance switching ladder attenuator

In a variable resistor that slides on a resistor, noise is generated by a point-contact diode, which can be a source of distortion. This unit is a crossbar twin structure. A gold and platinum contact relay switches the resistance and attenuates from 0 dB to -60 dB.

Left/Right independent power supply

Independent power supplies deliver power to the left and right channels as well as control circuits. Using all of the characteristics of the components together, we are able to preserve silence.



Equipped with C3g

Equipped with the ultra-reliable C3g developed by Deutsche Telekom for telephone repeaters. The thin grid lines and large distance between electrodes enable high linearity amplification. The C3g is soldered directly onto the board to reduce noise at the contact point.



Proprietary in/out transformers

Proprietary transformers are used for the input and output. The transformer is an important part that influences the performance of distortion, S/N ratio and input/output impedance. Therefore, the core material, wire material, winding thickness, and winding ratio are meticulously designed and manufactured.

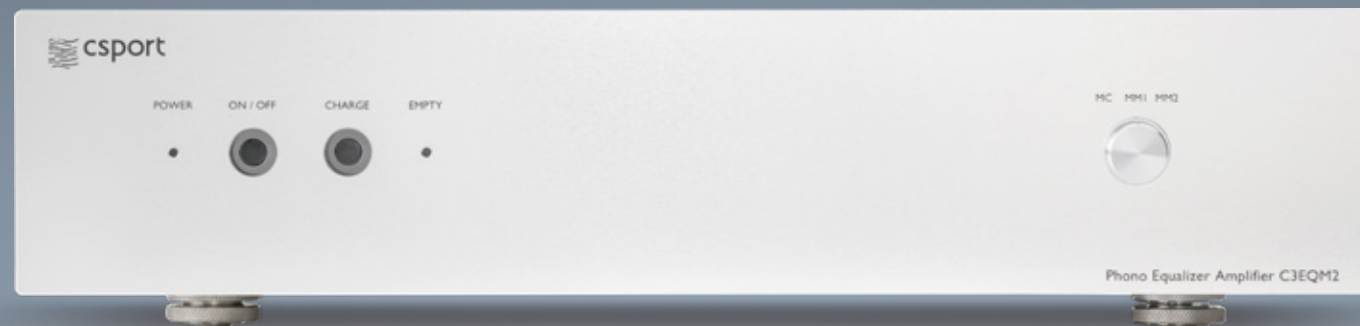


Front panel type

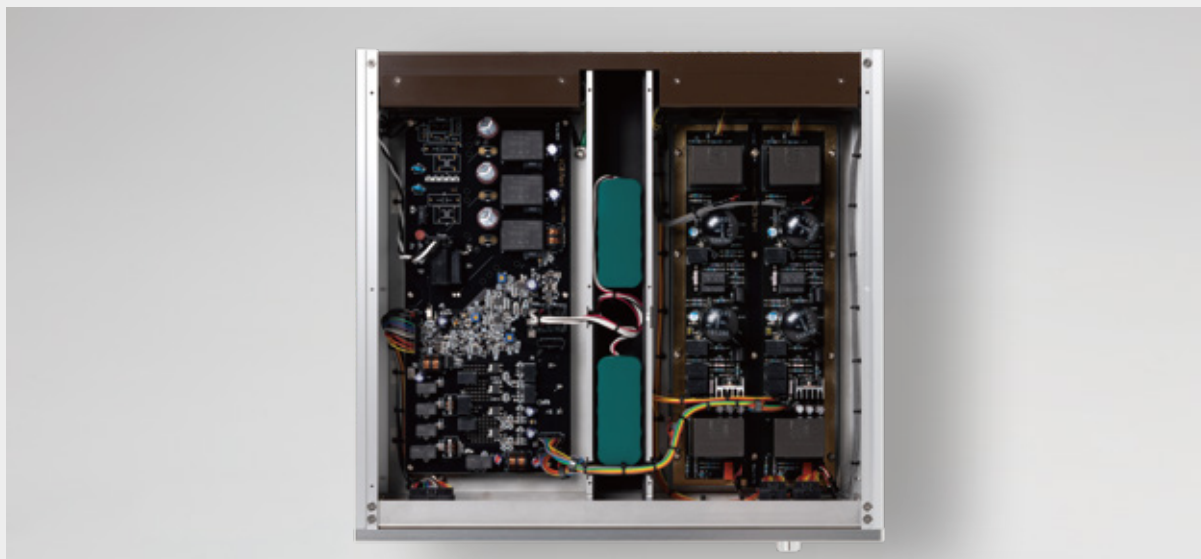
There are two front panels to choose from: one with a graceful design that complements the music, and the other with a wave pattern that expresses harmony with the music.



Phono Equalizer Amplifier C3EQM2



Tube type phono equalizer amplifier with super reliable tube C3g. Plate load resistance is 15 k Ω . The heater voltage is suppressed to ensure low noise. Battery operated and completely separated from the AC line. Amplifies to the level required by the preamplifier without adding anything extra.



Battery powered

Current distortion and electromagnetic noise can enter through the AC line. This is powered by a nickel-metal hydride battery. Therefore, it amplifies to the level required by the preamp without adding anything extra.

- Battery Run Time: 5 Hours (Optionally 9 Hours)
- Battery Charging Time: 4 Hours (Optionally 8 Hours)



Equipped with C3g

Equipped with the ultra-reliable C3g, developed by Deutsche Telekom for telephone repeaters. The thin grid lines and large distance between electrodes enable high linearity amplification. The C3g is soldered directly onto the board to reduce noise at the contact point.



Built-in MC transformer

Built-in MC transformer. The MC cartridge can be amplified by connecting a cable. The output is also isolated from other devices by a transformer system, which is not affected by noise. Using a high permeability super permalloy core is utilized, resulting in stable linearity.



Compatible with MC/MM

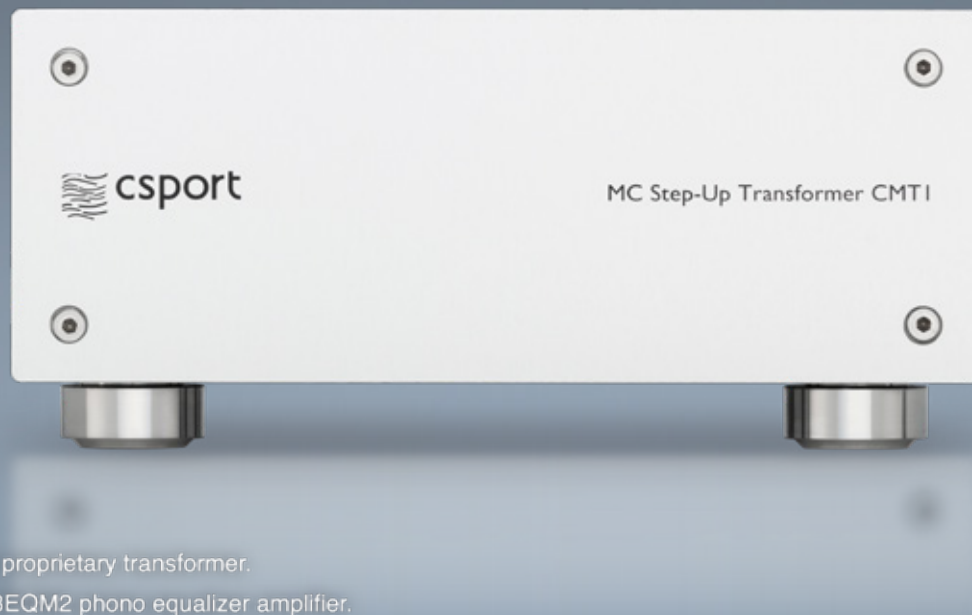
One MC and two MM cartridges are also supported, three inputs in total. By adding an external MC transformer, the MM channels can be used for MC cartridges.

Front panel type

There are two front panels to choose from: one with a graceful design that complements the music, and the other with a wave pattern that expresses harmony with the music.



MC Step-Up Transformer CMT I



MC step-up transformer with meticulously designed proprietary transformer.
With its high linearity, it is ideal for expanding the C3EQM2 phono equalizer amplifier.



Proprietary transformer equipment

The core material, wire material, winding thickness, and winding ratio are carefully designed and manufactured to affect performance such as distortion, S/N ratio, and input/output impedance. In addition, high permeability super permalloy cores are used to obtain stable linearity.



Simple and compact design

The chassis is compactly designed, but weighs 2.1 kgs, ensuring stability. It is equipped with one RCA, XLR input and RCA output. MC cartridges can be used by connecting to the MM input of the C3EQM2 phono equalizer amplifier.



Expandability of C3EQM2

Connect to the MM input of the C3EQM2, the C3EQM2 is able to accept MC cartridges, making it ideal for two- and three-arm applications.



Specifications

•Product appearance and specifications are subject to change without notice.

Monaural Power Amplifier **212PAM2**

Model	212PAM2-ST / 212PAM2-JH
Type	Class-A Vacuum Tube Monaural Power Amplifier
Output Power	40 W(4 Ω, 8 Ω)
Frequency Response	20-40 kHz -3 dB/20 W
THD	1%/40 W 1 kHz, 0.2%/10 W 1 kHz
NFB	None
Signal to Noise Ratio	90 dB/10 W(8 Ω)
Input Sensitivity	1 V/40 W
Gain	25 dB(8 Ω)
Input Terminal	BALANCED x1, UNBALANCED x1
Input Impedance	1.5 kΩ
Volume Adjustment	None
Dumping Factor	5 or more
Power Supply	AC100/120/200/240 V, 50/60 Hz
Power Consumption	400 W
Dimensions	188W×385H×563D mm *
Weight	24.5 kg
Finishing	Anodic Oxide Coating, Rosewood Plates
Accessories	AC Cords
Warranty Period	5 years(Excluding consumables)

* Knobs and terminals are not included.

• The input impedance of this unit is 1.5 kΩ.

Please use a equipment with an output impedance of 300 Ω or less.

• Two models are available: STC 4212E (model: 212PAM2-ST) and Jinzhou Electronics 212E (model: 212PAM2-JH).

• The 4212E made by STC is a rare item, so please contact us for availability.

• Do not touch the vacuum tube as it is hot and may cause burns.

• Vacuum tubes are treated as consumables and are not covered by warranty.

Stereo Power Amplifier **GM70PA**

Model	GM70PA-G / GM70PA-C
Type	Class-A Vacuum Tube Stereo Power Amplifier
Output Power	[Normal, DualMono] •30 W+30 W(4 Ω, THD 5%) •20 W+20 W(8 Ω, THD 5%) [Bridge] •60 W(8 Ω, THD 5%) •40 W(4 Ω, THD 5%)
	* The other than normal is valid for Lch/XLR input.
Frequency Response	20-30 kHz -2 dB/10 W
THD	[Normal, DualMono] •0.7%/10 W •0.2%/1 W [Bridge] •0.5%/10 W •0.1%/1 W
NFB	None
Signal to Noise Ratio	90 dB/1 W(20-20 kHz)
Crosstalk	40 dB/1 W(20-20 kHz)
Input Sensitivity	[Normal, DualMono] •1 V/30 W(4 Ω) •1 V/20 W(8 Ω) [Bridge] •1 V/60 W(8 Ω) •1 V/40 W(4 Ω)
Gain	21 dB
Input Terminal	BALANCED x1, UNBALANCED x1
Input Impedance	2.5 kΩ 1 kHz
Mode Switching	By the rear rotary switch
Volume Adjustment	None
Damping Factor	2.8(4 Ω), 5.6(8 Ω)
Power Supply	AC100/120/200/240 V, 50/60 Hz
Power Consumption	400 W
Dimensions	470W×201H×430D mm *
Weight	27 kg
Finishing	Anodic Oxide Coating
Accessories	AC Cords
Warranty Period	5 years(Excluding consumables)

* Knobs and terminals are not included.

• The input impedance of this unit is 2.5 kΩ.

Please use a equipment with an output impedance of 500 Ω or less.

• The standard model is equipped with the GM70 graphite plate.

A model with a copper plate (Model: GM70PA-C) is available as an option.

• Do not touch the vacuum tube as it is hot and may cause burns.

• Vacuum tubes are treated as consumables and are not covered by warranty.



Stereo Preamplifier **C3PR**Phono Equalizer Amplifier **C3EQM2**MC Step-Up Transformer **CMT1**

Model	C3PR
Type	Vacuum Tube Stereo Preamplifier
Frequency Response	20 Hz-20 kHz +0-1 dB
Max. Input Voltage	4 V/1 kHz
Max. Output Voltage	4 V/1 kHz
THD	0.05% 1 kHz 250 mV
Signal to Noise Ratio	80 dB/ATT 0 dB, 100 dB/ATT -20 dB
Gain	16 dB
Min. load Impedance	600 Ω
Input Terminal	BALANCED x2, UNBALANCED x4
Input Impedance	7 k Ω or more
Output Terminal	BALANCED x2, UNBALANCED x2
Output Impedance	50 Ω or less
Balance Adjustment	± 3.5 dB
Compensator	+2 dB 3 Steps 100 Hz
Remote Control	Infrared Transmitter
Power Supply	AC100/120/200/240 V, 50/60 Hz
Power Consumption	30 W
Dimensions	470W×90H×400D mm *
Weight	14 kg
Finishing	Anodic Oxide Coating
Accessories	AC Cords, Remote Control microUSB Cable for Charging
Warranty Period	5 years(Excluding consumables)

* Knobs and terminals are not included.

• Please use a pre-stage equipment with an output impedance of 1.5 k Ω or less.

Model	C3EQM2
Type	CR-type Vacuum Tube Phono Equalizer Amplifier
Conformity	[MC] 3-20 Ω
Cartridge Impedance	[MM] 47 k Ω or less
Max. Output Voltage	[MC] 5 V 1 kHz [MM] 5 V 1 kHz
THD	0.1% 1 kHz 0.76 Vrms
Gain	[MC] 63 dB [MM] 40 dB
Input Terminal	[MC] BALANCED x1, UNBALANCED x1 [MM] UNBALANCED x2
Output Terminal	BALANCED x1, UNBALANCED x1
Output Impedance	90 Ω 1 kHz
Power Supply	AC100/120/200/240 V, 50/60 Hz
Battery Run Time	5 Hours(Optional 9 Hours)
Charging Time	4 Hours(Optional 8 Hours)
Power Consumption	70 W
Dimensions	430W×90H×400D mm *
Weight	13 kg
Finishing	Anodic Oxide Coating
Accessories	AC Cords
Warranty Period	5 years(Excluding consumables)

* Knobs and terminals are not included.

• This is a dedicated RIAA phono equalizer amplifier. Please note that it is not suitable for other equalizer curves.

Model	CMT1
Gain	20 dB
Conformity	
Cartridge Impedance	1.5-40 Ω
Load Impedance	47 k Ω
Frequency Response	10-100 kHz ± 2 dB
Channel Balance	± 0.3 dB or less
Channel Separation	60 dB or more
Input Terminal	BALANCED x1, UNBALANCED x1
Output Terminal	UNBALANCED x1
Dimensions	200W×77H×120D mm *
Weight	2.1 kg
Finishing	Anodic Oxide Coating

* Knobs and terminals are not included.



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- This brochure is current as of May 31, 2021.
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