PROFESSIONAL ACTIVE MONITOR SYSTEM





Absolute 4P has been designed by Trevor

2 and Absolute Zero monitors.

levels on and off axis:

time domain response;

to satisfy individual tastes;

It should be reliable in prolonged,

driver materials;

professional use.

Stride, the man behind the acclaimed Absolute

Trevor has over 15 years of audio design

of the industry's leading names. Trevor's

design philosophy is deceptively simple:

experience behind him, working for a number

Any professional monitor should exhibit an

even frequency response at high and low

· It should have the most accurate possible

· It should have the most natural, uncoloured

sound possible, whatever the price level;

It should not exaggerate or enhance sound

It should not cause listening fatigue which

often arises from the inappropriate use of

pirit Absolute 4P active monitors put you in command of the mix by taking away the uncertainties of sound reproduction. Whilst some passive speakers can prove unpredictable due to external factors over which they have no control. 4P's active design optimises the performance of built-in amps. drive units, and electronic crossovers to ensure that they work together as a cohesive whole.

APPLICATIONS

Nearfield monitoring in large studios

Small studio monitoring

Home studio monitorina

Video edit/post-production suites

Multimedia

High quality small venue sound

reinforcement/distribution

Absolute 4Ps at Strongroom Two,

To satisfy these criteria. Trevor has scrutinised every element of 4P's design to optimise its performance.

Four built-in amplifiers (2 in each cabinet) are high-calibre, professional devices, which have been 'custom tuned' to perfectly match the drive units. The active VCS crossovers have been designed to prevent distortion of the system phase response (a common characteristic of systems which rely solely on physical driver alignment) by electronically aligning the drivers. Close proximity between the electronics and the drivers has a benefit the short cable runs minimise signal loss, which means greater efficiency and better dynamics. Both drive units are custom designed and magnetically compensated. The 6.5 inch (170mm) bass driver has a **low-resonance cast chassis**, phase plug and cone made from **High Definition Aerogel™**. The result is an LF unit which, when compared to a paper cone of the same weight, has a remarkably high stiffness-to-weight ratio and very good damping - two highly desirable yet normally elusive qualities. Thanks to the versatility of the active system. HF response is extremely flat with superb dispersion; the 30° off axis response extends to 17kHz. Because of the wide dispersion angle of the tweeter, the cabinet design has large radii on all edges to minimise edge diffraction effects. For absolute flexibility, the 4Ps may be used in a vertical or horizontal position, the latter being accomplished by simply rotating the internal amplifiers through 90°.

THE INSIDE STORY

ABSOLUTE PHASE LINEARITY A true phase linear design prevents phase lag to ensure that all frequencies

reach your ear at the same time. essential for accurate monitoring. Many designs attempt to overcome the problem by playing with the physical

alignment of the drivers, invariably

In contrast, Absolute 4Ps achieve true

ABSOLUTE SOUND QUALITY

To achieve Trevor Stride's design brief

bass cones custom-made from HD-A

(High Definition AerogelTM). This remarkable new composite exhibits

very high internal damping, high

rigidity and low mass. Being lighter

and more rigid than standard paper

phase linearity by the use of Spirit's

active VCS crossover which

electronically 'aligns' the drivers



Non Phase Linear System

(low frequencies lag behind) Absolute 4P

Phase Linear System



designs, 4P's cones are at least 2dB more efficient and very low in colouration, Furthermore, Trevor chose ferro-fluid cooled soft dome drivers instead of metallic tweeters which can create unwanted spurious HF resonances. Flat response is maintained off-axis by the newly designed tweeter face plates, and

ABSOLUTE POWER

prevent HF refraction and

interference

the edges of the substantial 18mm

MDF cabinet are radiused to help

Two 100 watt amplifiers in each enclosure make Absolute 4Ps the most powerful active monitors in their price class - but that wasn't the prime objective. The use of an active VCS crossover, coupled with dedicated drive to the LF and HF units, enables the frequency response characteristics of the system to remain flat at all levels. Built-in protection circuitry also works together with the amplifiers to provide a constant safeguard. A switchable 40Hz High Pass Filter allows accurate, high level monitoring of bass-heavy music signals as well as simulating the response of typical 'hifi' speakers

to facilitate home

studio mixing.

SPECIFICATIONS

Amplifier Power Output:	HF – 100 Watts RM LF – 100 Watts RM
Frequency response (half space on axis):	40Hz - 22kHz, -3d
Crossover (constant voltage, linear phase)	: 2.4kH
Efficiency (half space):	115dB max SPL @ 1r
Driver complement:	170mm LF/25mm H
Dimensions (HxWxD):	395 x 240 x 330mr
	15.5 x 9.5 x 13
Weight:	13.8kg (30.5lbs) eac
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ABSOLUTE COMPATIBILITY

leading to phase lag at low frequencies. 4Ps cater for both professional and semi-pro connections, and can be used with a wide range of input sources such as mixers, CD Players, and DAT machines. Industry standard XLR connectors handle balanced signals (+4dBu) while gold-plated phonos take care of unbalanced sources (-10dBV). Further accurate left/right of a natural, uncoloured sound, 4Ps use channel matching is assured by the stepped input level controls

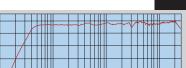
ABSOLUTE PROTECTION

4Ps are protected by a 'zerocolouration' active circuit, that has no adverse effect on sound quality, and which continuously monitors operating status by simulating drive unit power dissipation. Any signal approaching danger level will be progressively limited by precision electronic attenuators. without affecting transients. A red LED on the front panel illuminates when the protection circuit is limiting, giving you plenty of time to re-adjust your levels. If the yellow LED lights, the amps are running too hot and it's time to reduce





levels.



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Part # ZL0417



MAIN FEATURES

High definition linear phase design Flat on- and off-axis frequency response **Custom designed** magnetically compensated drivers Long throw Aerogel™ 170mm LF driver 25mm ferrofluid-cooled soft dome tweeter Vented cabinet with large flared port, for extended low frequency response, even at high levels Integral low distortion 100W (LF) and 100W (HF) power amplifiers, with full protection/limiting for both drivers and amplifiers **Constant voltage active** crossover. with time compensation for driver alignment **Stepped input level** control for accurate setup Switched 40Hz HPF

allowing higher sound levels from bass-heavy music signals **XLR** connector for

balanced signals. RCA phono-type sockets for unbalanced signals



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