

Seeking speakers

Resolution's essential briefing on the latest monitoring systems

Genelec

The S360 is the newest of Genelec's Smart Active monitors, and fuses main monitor performance with compact size — making it perfect for demanding film, post and music production where both reference-quality precision and high SPL are required.

Housed in a low-diffraction enclosure with premium quality Finnish woodwork, the symmetrically-priced (€3,360) monitor features an enhanced 10-inch high efficiency woofer and 1-inch titanium diaphragm compression tweeter housed in an extended directivity control waveguide — delivering neutral reproduction with a short-term SPL capability of 118dB, with peaks even higher. Equally at home in free-standing, in-wall or on-wall positions, versatile mounting is further supported by down-firing reflex ports, making it ideal for use in conjunction with perf screens. The S360 includes an innovative Iso-Plate, which also effectively decouples the monitor from its base when standing.

As part of Genelec's Smart Active monitor family, the S360 integrates with GLM software, via which it can be configured, calibrated and controlled. GLM allows any acoustic environment to be analysed, after which each Genelec monitor can be optimised for level, distance delay and room response equalisation. By minimising the room's influence on the sound, GLM helps all Smart Active monitors deliver an unrivalled reference, with excellent translation between rooms.



www.genelec.com

Neumann

The new compact KH 750 DSP subwoofer is suggested by Neumann as a great choice for smaller rooms and monitors. It has a flexible 2.0/0.1 Bass Manager allowing the subwoofer to be used in many different system configurations. On the back panel there are analogue and digital inputs and outputs, four routing modes and adaptable acoustical controls to allow for system integration.

The newly designed 10-inch long-throw driver has a large magnet, linear motor design and a very stiff pressed steel basket. As subwoofers are usually placed on the floor, a robust grille protects the driver from accidental damage. The well-braced cabinet is a sealed design aimed at delivering the fastest possible transient response. The two analogue XLR inputs are balanced, as are the two analogue XLR outputs. The 192kHz/24-bit digital input can accept AES3 and S/P-DIF signals.

In combination with the KH 80 DSP studio monitors the Neumann. Control app for iPad gives access to many additional functions inside the subwoofer via standard IP networking. Systems of loudspeakers can be defined, aligned for a good in-room sound, and then operated centrally. The £1,255 KH 750 DSP can be used in music, broadcast, and post production studios for tracking, mixing, and mastering.



www.neumann.com

PMC

The result6 compact two-way design features a 27mm soft-dome tweeter with dispersion grille and a mid/bass unit composed of a doped natural fibre, both custom-designed for the £2,400 (pair) result6. The LF driver was developed using a laser-based measurement system that determines the electromechanical performance of the driver with extreme accuracy and allows the bass driver to be perfectly integrated with the Advanced Transmission Line — PMC's proprietary bass-loading system.

Built-in dual amplifiers supply 65W and 100W of power to the HF and LF drivers respectively. Their efficient, low-distortion and high-damping-factor Class-D designs provide plenty of headroom to ensure the result6 has a generous dynamic response. The elegant, pure analogue crossover, which was also designed specifically for the result6, keeps both drivers working at peak efficiency, while non-invasive limiting protects the LF and HF units from damage without adversely affecting their sound. Simple rear-panel trim controls allow users ± 10 dB of amplifier output level adjustment to suit the precise requirements of the chosen listening environment. result6 also features D-Fins, a unique finned HF driver surround that widens the loudspeaker's sweet spot to give excellent off-axis response over a larger area. They also block cabinet edge effects to ensure result6's HF response remains smear-free.



www.pmc-speakers.com

KRK

The new ROCKIT G4 line has been scientifically re-engineered from the ground up for the way modern artists work — in all

genres and environments. Following the technology and legacy of the V Series 4 monitor line, the new ROKIT G4 series proprietary drivers feature a rigid and high tensile strength-to-weight ratio material. KRK say the new matching Kevlar driver design ensures the same sonic integrity across all frequencies and minimizes listening-fatigue.

Also new is the on-board DSP-driven EQ with Visual LCD, which delivers a more versatile and sonically accurate monitor. Generation 4 Rokits offer high quality enclosure but with a newly-designed front-firing port offering exceptional low-end extension and accuracy, punch and flexible room-positioning. The brand new Rokit lineup offers 5-inch (£169.99), 7-inch (£219.99) and 8-inch (£269.99) bi-amp models, all sporting matching 1-inch tweeters, as well as a 10-inch tri-amp model (£469.99), which adds a matching 4.5-inch mid-woofer to the setup.



www.krksys.com

JBL

JBL's Intonato 24 Monitor Management Tuning System is a comprehensive solution for easy set up, precise automated calibration, and complete control of

monitoring systems in stereo, surround, and immersive audio production rooms. Intonato 24 can calibrate and control systems of up to 24 speakers with customised recallable routing of up to 24 sources selected from 24 dedicated analogue, 24 digital and 256 networked audio sources. Included software and an optional Desktop Controller (due later in 2017) put the system's powerful monitoring features at your fingertips, and take control room monitoring to the next level.

Intonato 24 includes a calibration microphone and an Automated Speaker Calibration process that "tunes" each speaker to compensate for placement and room acoustics, delivering neutral response to the mix position — even in less-than-ideal work spaces. With the power to manage monitoring systems of up to 24 speakers—including up to four subwoofers that can be assigned as 'Bass Management' subs with selectable crossover settings—Intonato 24 is compatible with all monitoring formats including stereo, 5.1, 7.1 and makes immersive monitoring possible in any control room. JBL's new system has the ability to patch, route, and selectively monitor any combination of 24 analogue, 24 digital and 256 networked sources including DANTE via an optional interface.



www.jblpro.com

Yamaha



The MMP1 is an innovative signal processor which incorporates advanced monitor control and a comprehensive range of audio processing functions, to support contemporary production workflows, in one compact rack-mountable unit. In addition to a 40x36 monitor matrix — which allows flexible configuration of main monitor, cue and other audio I/O — the MMP1 includes a 32x32 speaker management matrix with time alignment functionality and FIR crossover filters.

This space-saving unit offers plenty of flexibility for managing formats from stereo to immersive multi-channel audio.

The Version 1.1 firmware update adds remote control support for the TMC-1/TMC2 monitor controller from CB Electronics [see page 12, this issue], a leading manufacturer of equipment for post-production studios. With the new firmware, the TMC-1 can be used to remotely control MMP1 monitor source selection, speaker system selection, levels, mute and dim. Used in conjunction with the MMP1 Controller app for iPad, this provides convenient access to a wide range of detailed settings, for a more efficient, productive monitoring environment. Other Version 1.1 refinements which contribute to the MMP1's improved overall use include: Pop-up EQ graphs and meters that can be rearranged in the editor window; Expanded lip sync delay time (up to 300ms); SPL parameter lock to prevent accidental changes and expanded GPI assignments.

www.yamahaproaudio.com

PSI Audio

Positioned between the two-way A21-M and the larger three-way speaker A25-M, the new-for-2019 A23-M is perfect for nearfield and midfield applications. It uses established PSI Audio technologies like Adaptive Output Impedance and Compensated Phase Response. The speaker

features a new mid-range driver developed and manufactured by PSI Audio in its Swiss factory. The baffle with tweeter and mid-range driver can be rotated to optimise the speaker's setup for horizontal or vertical positioning. Combining the new driver with proprietary PSI Audio technologies AOI, CPR and Class G/H amplifiers, the A23-M settles in between the legendary A21-M and the large three-way A25-M, filling the gap between near-field and midfield speakers.

PSI Audio expands on these strengths and created a more compact three-way design to harness all the potential of the three-way with a smaller footprint for easier integration in studio environments. With a frequency response down to 35 Hz (at -6 dB), the £6,767.50 (exc VAT) A23-M is a full-range monitoring system that can, but does not need to be enhanced with a subwoofer like the A225-M.



www.psiaudio.swiss • www.emerginguk.com

Merging

The Anubis+ Monitor Pro is a compact audio preamp, AD/DA interface and monitor controller with up to 192kHz sample rate, networked audio and powered by DSP technology. The Merging Technologies Anubis+Monitor includes two mastering-grade Mic/Line preamps, two Line/High impedance inputs at the front, as well as stereo main outputs, line outputs and two 'mastering-grade' headphone outputs. Using Merging's Ravenna technology, The Anubis+ Monitor connects to your DAW via ethernet and offers instant network integration.

The Anubis+Monitor is designed to provide superior monitoring functionalities thanks to on-board DSP, which its touchscreen and large knob give you quick and flexible control over of every aspect of monitoring. Furthermore, the network audio capabilities ensure easy remote control from any tablet or web browser. Control of multiple speaker sets and headphones with built in talkback, bass management and speaker time alignment, plus a host of other features that are essential to managing your recording and mixing environment are all possible with this versatile unit.



www.merging.com • www.emerginguk.com

ADAM

The S3V is a three-way studio monitor optimised for vertical use and designed primarily for midfield applications. Bass frequencies from 32Hz to 250Hz are handled by ADAM Audio's entirely new 9-inch Extended Linear Excursion (ELE) LF driver, which incorporates the company's Symmetrical Magnet Assembly (SMA), and aims to deliver a powerful and accurate low end extending into the sub-bass region. Mid-range and HF information is reproduced with a combination of ADAM Audio's newly developed 4-inch DCH mid-range driver and the S-ART folded-ribbon HF driver. The S Series' custom-designed DSP optimises the loudspeaker crossovers to create linear responses, as well as providing user equalisation and in-room tuning/voicing functions. The DSP also handles the limiter-based high-frequency driver protection, processes the signals from the AES3 digital inputs.

The S3V's built-in amplification comprises Class D units for the bass and mid-range drivers (500 W and 300W RMS respectively) and a 50 W Class A/B amplifier for the S-ART tweeter. Offering reproduction of frequencies between a claimed 32Hz-50kHz, the S3V comes in at £3,281.67 (exc VAT, per pair).



www.adam-audio.com

Trinnov



The pro audio room/monitoring optimisers come in three flavours depending on your i/o, upgrade and monitoring controller requirements. The ST2 (£4,744 with microphone, reviewed *Resolution* V17.3) is a fixed configuration of twin stereo optimised outputs, for either your main and near fields, or as main stereo and twin subwoofers.

The DMon (review *Resolution* V15.3) is available in a small variety of fixed configurations: it is either a 4 channel unit (for twin stereo), 6 channel (for 5.1), 8 channel (for 7.1 or 5.1 + 2.0) or 12 channel (for immersive formats) The DMon is intended for use where there is a need for a monitor controller (as well as room correction) and will act as slot in replacement for the Avid X-Mon. Eucon compatibility gives it connectivity with the Avid S3 and S6 desks.

The Trinnov MC is the most highly configurable and can be 4, 8, 12, 16, 24 or even 64 channels of optimised monitoring, with MADI I/O for the most serious Dolby Atmos multi-channel type installations. The optimisers are installed in the monitoring signal path just before the amp. Measurements are made with the unique 3D microphone and sound impulses are generated by the optimiser and processed. Once measurements are made, the optimiser only takes a few seconds to compute the automatic compensation, no matter how complex the system layout is.

www.trinnov.com • www.emerginguk.com

Kii

The Kii THREE offers a linear frequency response, a claimed "perfect impulse response and phase coherence", and 1500 watts of power per enclosure divided across six drivers into a compact and lightweight enclosure. Designer Bruno Putzeys invented the Active Wave Focusing technology,

which controls sound dispersion and directs sound pressure towards the sweet spot where it is needed. Intelligent DSP processing provides the Kii THREE with a cardioid sound dispersion pattern down to the low-mid and bass frequencies, which otherwise can only be achieved by very wide baffles, big cabinets or soffit mounting speakers (infinite baffle design). Kii promote the design as the first "Mini Main monitor system" available.

The Kii CONTROL turns the Kii THREE into a complete high sonic quality playback system. It offers a user interface for your speakers and works like a digital preamplifier. The Kii CONTROL offers three additional digital inputs for the Kii THREE: Coax SPDIF, Optical TOSLINK and USB (up to PCM 24/384kHz and DSD64/DSD128 on USB). The big volume knob also offers mute or dim functions and manual power on/off (standby). A dedicated touch button provides direct access to up to six user definable presets. A Kii Audio THREE Pro (Pair) plus Kii Control are £10,266.67 (exc VAT).



www.kiiaudio.com

RCF

The AYRA PRO series active reference speakers are designed as the entry point to the RCF professional monitoring line. With a powerful internal DSP to optimise frequency response and dynamics, together with the exclusive RCF FIRPHASE processing and high-quality components, RCF say AYRA PRO is the first monitor in its class to boast 0° phase linearity. Optimised for near-field studio applications, broadcast and home use, the front-ported AYRA PRO studio monitors are designed to fit into any listening environment, whether large or small production facilities, desktop or in-wall.

Advanced magnetics, a new powerful class-D amplifier for each transducer, an extended range of inputs and room optimisation switches aim to give users an uncoloured reproduction. Drawing from RCF's 70-plus years of cabinets and transducer construction, the acoustic design is focused on eliminating undesirable resonances, together with a custom developed horn to dissipate vibrations at high frequencies. The series comes in three models: AYRA PRO5 (£187), AYRA PRO6 (£204), and AYRA PRO8 (£277), featuring 1-inch ferrofluid cooled soft-dome tweeter and respectively 5-inch woofer — 75W+25W amplifier, 6-inch woofer 80W+40W, 8-inch woofer 100W+40W.

www.rcf.it



Quested

The V2104s and the special edition MiniRedz are the new ultra-compact near-field monitoring system from Quested. Bringing a new level of accuracy and detail, the V2104s are Quested's smallest monitor to date. Whilst the enclosure size of the V2104 is compact, the immersive sound stage they produce has broad ambitions.

Suited, according to Quested, to all areas of studio and broadcast monitoring, the V2104s are ideal for those working in confined spaces, or those who are always on the move. Based around a direct radiator design that utilises a 4-inch bass driver and a 1.1-inch soft-dome high frequency unit, each V2104 incorporates two channels of class D amplification, offering a total of 140w output power. An additional 8-inch low frequency extension unit will soon be available, providing users with a very flexible, modular monitoring system that can form part of a permanent fixture in the studio — or be easily taken on the road as a mobile platform — ensuring consistency in monitoring is maintained, even if you are not always able to work in your own environment.

www.quested.com



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