

epos



A particular strong point of this model is the way it presents low frequencies. Balancing quantity with quality is an arduous task and great effort went into guaranteeing that the ES30 could provide carefully integrated bass that possessed both power and poise. All the drive units in the ES30 are advanced designs developed and manufactured in-house specifically for this loudspeaker by Epos Acoustics.

The ES30 tweeter is a new, proprietary design based upon the unit we developed for the acclaimed ES12. It uses a 25mm, low mass aluminium alloy dome that is just 50 microns thick. This ultra-light yet remarkably stiff diaphragm is driven by a high efficiency, dual magnet system and supported in an optimised chassis by a nitrile rubber suspension. The result is a superbly

responsive unit with exceptional linearity, providing great clarity and precision in the upper reaches of the musical spectrum.

Its transient response and thermal stability ensure that the ES30 retains the characteristically tight timing, for which Epos speakers are renowned, even when it is asked to play at high levels for prolonged periods.

The ES30 midrange unit is a development of the bass/midrange driver used in the ES12. We have carefully re-engineered this proven design so that its output blends seamlessly with that of the ES30 bass driver while providing unmatched clarity throughout the crucial midband.

We have, for example, tuned the fundamental resonance of the driver specifically so that it can reproduce the lower register of male voices without crossing over to the bass driver. This avoids timbral discontinuities in the critical voice band where the ear is most sensitive. An extended pole piece and minimal length voice coil provide linear, distortion-free travel of the coil and cone, and enhance the accuracy and dynamics of the driver's performance.

We use a phase plug in place of a conventional dust cap and a mechanical roll-off to obviate the need for any electrical filter between the midrange and tweeter. These ensure perfect integration between the midband and treble by controlling the midrange driver's dispersion characteristics and eliminating phase related anomalies. The result is tonal coherence, dynamic integrity and pinpoint, stable imaging.

Other features adopted to ensure the purity of the driver's output include an injection moulded, flared-profile Polypropylene diaphragm. This is powered by a wet wound, high temperature voice coil on a vented former, and a computer-optimised magnet system. These and other design elements produce a drive unit that is faithful to the signal feeding it and, respecting the demanding nature of potential ES30 customers, a reliable and consistent performer.

The 200mm bass driver used in the ES30 is built by hand specifically for this loudspeaker. Housed in a rigid aluminium chassis, its PVC cone is driven by a short voice coil operating in a long magnet gap. The design enables the cone to move sufficiently to deliver powerful, deep low frequencies while remaining fully under the control of the amplifier driving it.

We have adopted numerous other measures to ensure that the ES30's bass stays in time and in tune with the rest of its musical performance. One is our dual rear suspension system. Its complementary arrangement avoids the distortion generated by other systems where the restoring force upon the driver varies according to the direction in which the cone is travelling. And, as with the mid and high frequency drivers, we have made the bass unit thermally stable so that its performance will not alter when the system is being played at realistic levels for prolonged periods.

The ES30 cabinet is constructed with 32mm MDF and 25mm particle board panels to provide the drive units with an exceptionally stable and inert enclosure in which to operate. Extensive internal bracing further increases the cabinet's structural integrity and eliminates any standing waves.

Optimised enclosure tuning, gas-flowed reflex ports and specially selected damping materials all contribute to low colouration, while the low diffraction baffle provides remarkably stable and acute stereo imagery.

The ES30 is equipped for tri-wiring. Three pairs of laboratory test standard, high current, gold-plated terminals allow the use of separate cables (or separate amplifiers) to connect the bass driver, midrange driver and tweeter. Multiple wiring or amplification techniques provide improved stereo imagery, control and detail resolution.

The ES30 is a loudspeaker that will allow you to enjoy recordings thoroughly, without causing you to be distracted or restricted by the shortcomings displayed by most loudspeakers, when the music

becomes demanding. The astonishing scope of its dynamic compass is, however, matched by the grace, openness, clarity and musical fluency that are hallmarks of all Epos loudspeakers.

Power Handling 300 Watts speech and music

Frequency Response 25Hz – 22kHz

Impedance 6 ohms Nominal

Sensitivity 88dB/1 watt/1 metre

Finish Light and Dark Cherry wood veneer

Dimensions 900mm(H) x 233mm(W) x 344mm(D)

Weight 27kg

An acoustically transparent foam grille was supplied