e351POE

VUE audiotechnik

COAX 3.5 INCH ULTRA DEFINITION POE NANO SPEAKER

DATA SHEET

FEATURES

- Redefines the SPL-to-size ratio:
Architect-pleasing design with esoteric audiophile quality and professional audio output
- Very low distortion and flat response provides ultra high end audiophile quality with professional sound pressure output
- Strong neodymium magnetic circuit for exceptional output, high frequency bandwidth and clarity
- State-of-the-art 3.5-inch Coax high output transducer
- Body constructed of cast and extruded aluminum — the e-351's elegant enclosure is made from solid aluminum for maximum rigidity and corrosion resistance (available in black or white)
- Power Over Ethernet for network integration and multi-zone configuration
- Flexible mounting with included bracket enables quick and intuitive speaker aiming, with M6 screw to accept safety anchor.

APPLICATIONS

- Themed entertainment venues
- 3D sound-fields & special effects
- Theatrical sound reinforcement
- High definition distributed music systems
- Portable and installed systems
- Audio for video distributed and surround
- Museum and corporate boardrooms
- Outdoor & marine installations

DESCRIPTION

The two-way e-351-POE Nano Coax Loudspeaker redefines small loudspeaker capabilities by producing high output exceptionally high quality sound from a very compact aluminum die-cast weather resistant system. With reference quality flat response from 120 Hz to well above what the most discerning humans can hear, the e-351-POE is capable of output levels of systems typically more than twice it's size.

The e-351-POE utilizes state-of-the-art materials and technology to achieve audiophile quality at high sound pressure levels. The advanced 3.5-inch coax transducer produces high output by combining a very powerful neodymium magnetic circuits for efficiency with high temperature voice coils and physical optimization of the magnet assembly for maximum heat dissipation to the aluminum enclosure. Coaxially mated to the driver is a unique compression tweeter with it's horn built through the center of the pole-piece of the woofer's powerful neodymium magnetic assembly. This enables wider high frequency dispersion than is possible form a cone driver even as small as 3.5 inches.

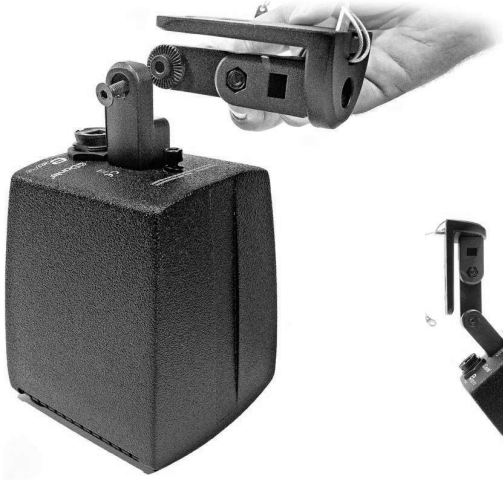
e351POE

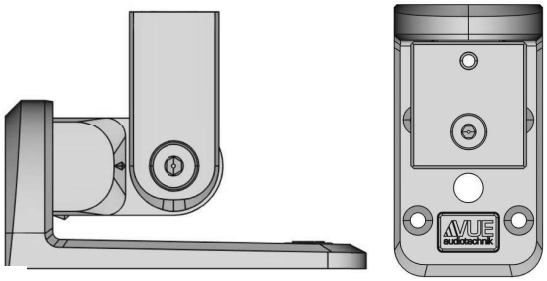
Power Over Ethernet provides both audio and amplifier power over a single network cable. Zones and clusters of e-351-POE speakers can be software controlled using SystemVUE. An EQ Preset for the e-351-POE is available for use in the SystemVUE software.

The all aluminum enclosure provides very high rigidity for resonance free operation as companied with typical compact systems with plastic enclosures. The aluminum baffle features an integrated high frequency wave guide and very low diffraction to ensure the full high frequency clarity of the hf driver is not compromised. The aluminum enclosure's ability to withstand corrosion and moisture damage also makes the e-351-POE well suited for use outdoors.

e-351-POE FRONT, SIDE & REAR VIEW

e-351 MOUNTING BRACKET





e-351-POE POWERING CONFIGURATIONS

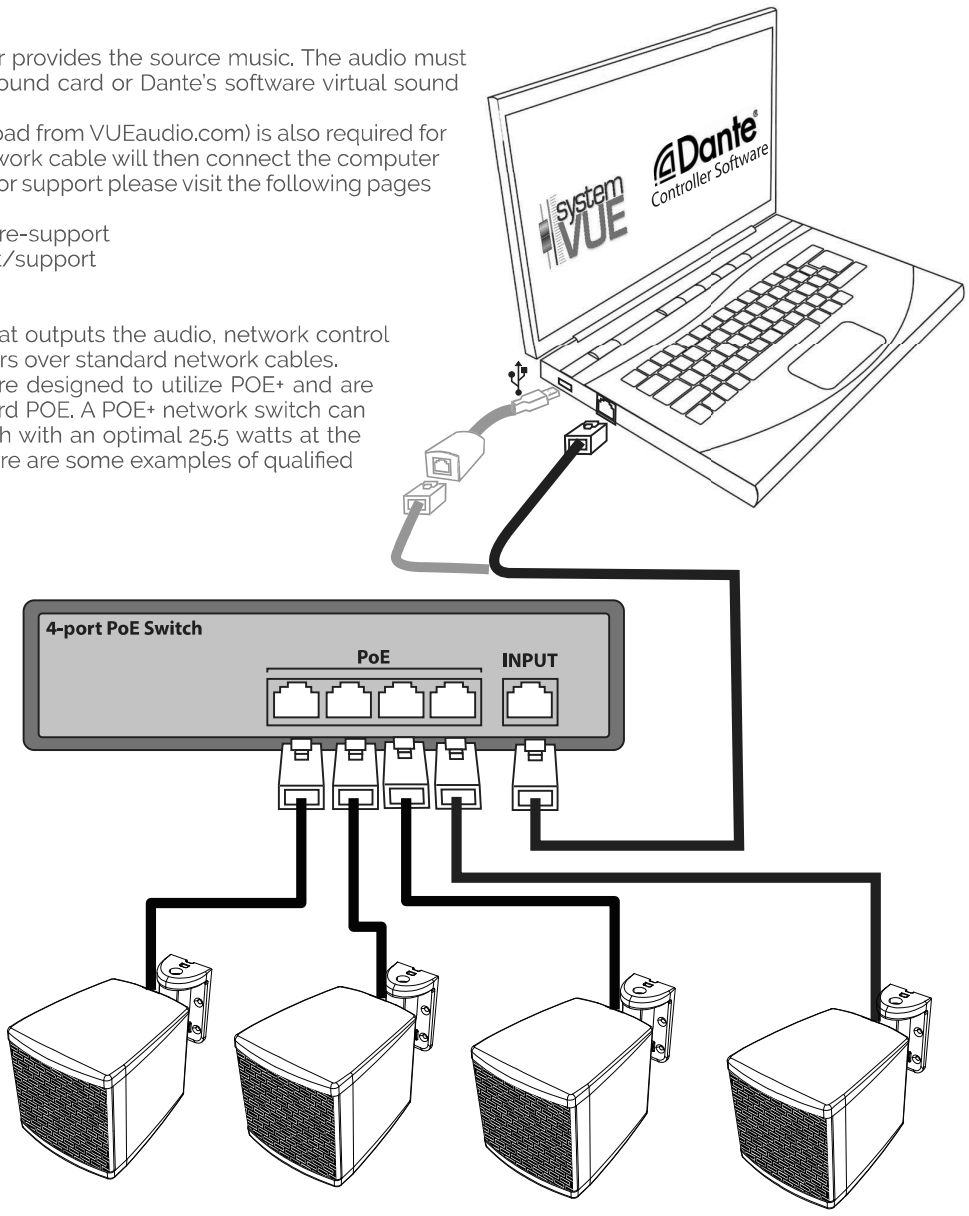
VUE's line of POE loudspeakers provide exceptional audio, power and complete speaker management over a single network cable. Power over Ethernet combines networking control, audio program (music/speech/etc) and power to drive and configure an entire system.
VUE's smallest POE loudspeaker is the e-351-POE and utilizes the Dante Ultimo chip. Ultimo can provide up to 4x4 channels of audio at 44.1 kHz and 48 kHz, or 2x2 channels at 88.2 kHz and 96 kHz. Together with SystemVUE software and a qualified PoE network switch, e-351-POE loudspeakers are true plug-and-play operation when installing and setting up a system.

The basic POE system

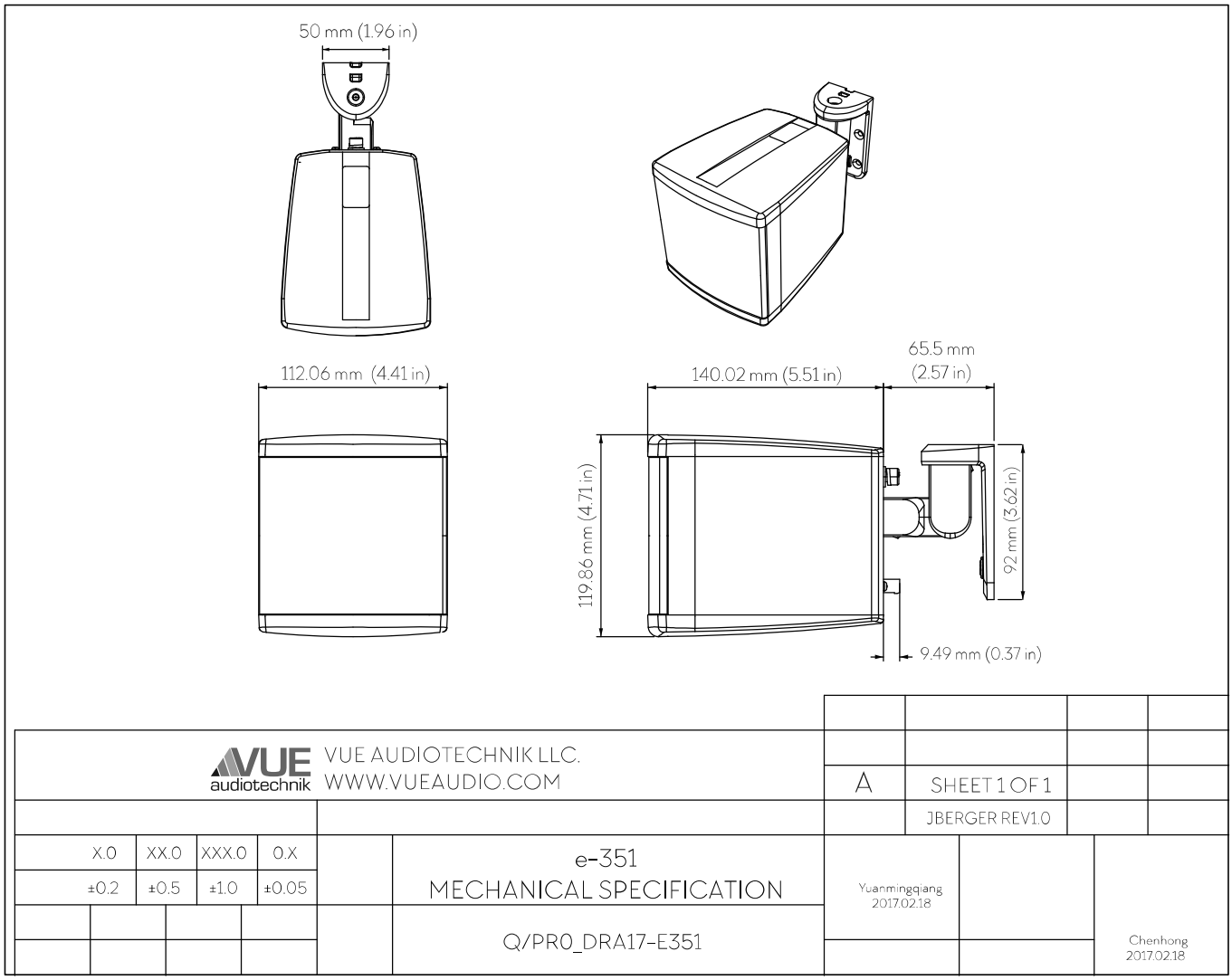
• Audio Source and control
A laptop or dedicated media server provides the source music. The audio must be routed into a hardware Dante sound card or Dante's software virtual sound card.
SystemVUE software (a free download from VUEaudio.com) is also required for network configuration. A single network cable will then connect the computer to a qualified POE network switch. For support please visit the following pages online
https://www.vueaudio.com/software-support
https://www.audinate.com/contact/support

• The POE switch
The switch is an ethernet switch that outputs the audio, network control data and power to drive the speakers over standard network cables.
VUE Audiotechnik POE speakers are designed to utilize POE+ and are backwards compatible with standard POE. A POE+ network switch can provide up to 30 watts at the switch with an optimal 25.5 watts at the speaker over long network runs. Here are some examples of qualified PoE switches

• The Speakers
The network cables connect the PoE speakers to the PoE switch. The SystemVUE software can address each speaker on the network to make various adjustments in volume, EQ, delay for distance alignment, etc. SystemVUE software contains presets for proper crossover points for the e-351-POE speaker.



e-351-POE DIMENSIONAL DRAWING



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SPECIFICATIONS

DESCRIPTION	Coaxial 3.5 inch Power over Ethernet Loudspeaker System
ACOUSTIC DATA	
Frequency Response (+/- 2.5 dB)	120 Hz to 22 kHz
Frequency Range (-10dB)	100 Hz - 27 kHz
Sensitivity (1W/1m)	88 dB SPL
Max Peak SPL	109.5 dB SPL AVG SPL Long Term band limited pink noise 6 dB crest factor 117 dB SPL Music Program Transient Peak
Max SPL Long Term	97.2 dB SPL (AVG SPL before protection band limited pink noise)
Coverage Horizontal	90 degrees - 6 dB
Coverage Vertical	90 degrees - 6dB
AMPLIFIER DATA	
Amplifier Power (Long Term Sine Wave before protection)	30W limited by IEEE 802.3at-2009 15W limited by IEEE 802.3af-2003
Amplifier Power (AVG Burst@ 1% THD)	LF: 30 watts rms HF: 30 watts rms
Amplifier Protection:	short circuit protection, under & over voltage protection, temperature protection.
Operational Voltage	Powered through Power over Ethernet connection standards, IEEE 802.3at-2009 or IEEE 802.3af-2003 , with proper preset selection for power output limiting.
Software Control	SystemVUE, Dante Controller software
THD+N (typical at amplifier output)	< 0.05 % (20 Hz - 20 kHz, 3 dB below rated power)
DSP	48k Hz sample rate, mixed-mode 64-bit digital processing, less than 600 microseconds latency.
Network	Ethernet / IP DHCP (or fixed IP) over standards, IEEE 802.3at-2009 or IEEE 802.3af-2003 networks for Power, remote monitoring and control. Digital audio input through Dante over the same network.
TRANSDUCER DATA	
LF Driver Description	1x 3.5-inch driver 20 mm voice coil Neodymium magnet with heat dissipation assembly
HF Driver Description	1-inch composite dome diaphragm with 25 mm voice coil,
PHYSICAL DATA	
Inputs	CAT5/CAT6 RJ45 network connector
Cabinet Material	Die-cast and extruded aluminium
Mounting	Multi - knuckle and rotation joint mounting bracket included
Cabinet Surface	Black or White polyurea coating
Dimensions (H x W x D)	4.33 x 4.33 x 4.13 in (110 x 110 x 105 mm) Estimated
Weight	Net: 3.8 lbs (1.72kg) w/ Bracket

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