PreSonus ULT12

Two-way 1x12" Active Loudspeaker

Key Features

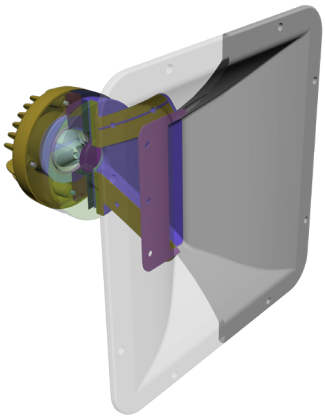
- Pivot X110 horn combines a wide 110˚ horizontal dispersion with a focused 50˚ vertical coverage for consistent listening both on- and off-axis
- Integrated 1,300W Class D biamped power
- Onboard DSP presets for front-of-house, DJ, and monitor applications
- 6˚ downward tilt for flexible pole-mount applications

Applications

- Mobile sound reinforcement
- Permanent installation
- Sound reinforcement for mid-sized venues

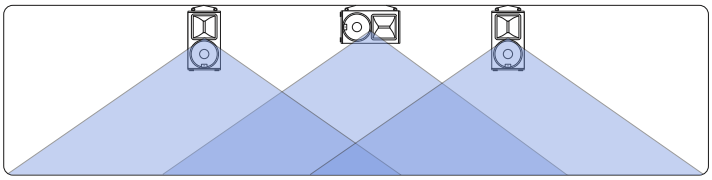
ULT: Ultra-Long Throw

PreSonus® ULT12 active loudspeakers combine a wide 110˚ horizontal dispersion with a focused 50˚ vertical dispersion for an ultra-long throw. The result is even coverage throughout the space, enabling entire the audience to hear clearly. Featuring PreSonus' proprietary Pivot X110 horn, a custom 12-inch low-frequency driver, 1,300W of biamped Class D power, and the performance characteristics that only wood can offer, ULT12 loudspeakers deliver first-rate speech intelligibility and natural music reproduction. This makes them a great choice for both mobile use and permanent installations.



The large size of the custom-designed Pivot X110 rotatable horn enables it to control the dispersion pattern lower in the frequency range than smaller conventional horns, so it maintains more consistent SPL on- and off-axis, ensuring that the audience at the sides has the same listening experience as those in front. The result is sound reproduction that fills the entire room, evenly providing optimal audio.

Creating wide dispersion throughout a speaker's bandwidth presents a challenge because as frequencies go higher, their wavelengths shorten, narrowing their dispersion. At low frequencies, loudspeakers tend to radiate consistently in all directions; at higher frequencies, they tend to beam the sound. So a conventional loudspeaker that is relatively flat on-axis radiates a different frequency spectrum when off-axis because the response is no longer frequency independent.



In contrast, the Pivot X110 horn achieves a wide (110˚), consistent horizontal coverage, while narrowly focusing the coverage in the vertical (50˚) so that the high-frequency content has a longer throw. The resulting pattern expands with constant spectral content throughout the coverage area and all the way to its edges.

Pivot on a Dime

The Pivot X110 horn can be rotated 90˚, allowing the ULT12 to be mounted in a horizontal configuration while still maintaining its 110˚ x 50˚ coverage pattern. Along with its compact size, this makes the ULT12 an ideal center-channel speaker for an LCR system or an under-balcony fill. Rotating the Pivot X110 horn can also help fix FOH issues in tall, narrow venues by minimizing early reflections and providing more directed coverage. Add the ULT12's multi-angle enclosure and presets for live performance, floor monitor use, and music playback, and you have an extremely versatile loudspeaker that is equally at home at front-of-house and as a stage monitor.

- **Normal Front-of-House.** The 110˚ x 50˚ dispersion pattern makes ULT-series full-range systems ideally suited for mobile front-of-house use. The wide horizontal pattern provides even coverage across the room. The 50˚ vertical dispersion ensures ultra-long, focused throw. The result is sound reproduction that fills the entire room, evenly providing optimal audio.
- **Floor Monitoring.** When flipped into floor monitor position, the ULT12's horizontal dispersion pattern narrows to 50˚. As a result, the floor monitor's energy is focused on a relatively limited area that won't bleed over into either side, allowing each musician's mix to inhabit a specific zone on the stage. At the same time, its 110˚ vertical dispersion allows a performer the freedom to move forward and back within their zone without sacrificing clarity.
- **Wide Room and LCR.** When oriented horizontally, the ULT12's compact size and rotatable horn provides a wide coverage pattern ideally suited as a center channel for an LCR system or an under-balcony fill. When used in an LCR system, the 110˚ horizontal dispersion provides more seamless and wider coverage than speakers using a traditional 75˚ axisymmetric or 90˚ dispersion pattern.
- **Tall Narrow Room.** Rotating the Pivot X110 horn in a typical FOH situation can help to fix the typical issues found in a tall, narrow venue. By rotating the horn to create a 50˚ horizontal dispersion and a 110˚ vertical dispersion, problematic early reflections can be minimized and more directed coverage is provided.

Power Where You Need It.

The ULT12 is supplied with more than enough power and I/O to handle a wide variety of applications and environments. Its 12-inch woofer is driven by a 500W (continuous), Class D power amp, while the Pivot X110 horn receives 150W. An onboard 2-channel mixer is equipped with 2 combo XLR and ¼-inch TRS inputs: a mic/line input with PreSonus' acclaimed XMAX mic preamp and a line-level-only input. The inputs have independent level control, allowing up to two audio sources to be mixed internally and summed to a balanced XLR output for "daisy-chaining" multiple units. A separate direct output for the line input channel provides additional flexibility.

Now hear *this*.

With extra-wide horizontal and focused vertical dispersion, a rotatable horn, ultra-long throw, a wood enclosure, and ample Class D power, the ULT12 is an excellent solution for permanent installations. Yet it's also portable, making it a top choice for tours and other mobile use. With its unique horn design and powerful onboard amplifier, the ULT12 delivers outstanding speech intelligibility and natural music reproduction, with even coverage throughout the space.

Application and Deployment

The ULT12 is equipped with 12 M10 rigging points for suspended horizontal and vertical installation. PreSonus recommends the use of the M10-AI Kit. A minimum of three suspension points must be used per speaker to safely suspend the ULT12. Two properly rated steel cables, fixed symmetrically to the front of the cabinet to hold the weight, and one wire attached to the back for tilt will satisfy this requirement. Select the strongest overhead structure available for the two front points and, if possible, two independent points to allow one to act as a backup. Attach the two front points first and then adjust tilt angle to ensure the load is safely suspended during installation. If additional pan or height adjustments are needed, make sure to follow this rule as well.

Do not suspend additional loudspeakers or other items from the ULT12.

The ULT12 is equipped with a two-position pole cup to provide more flexible coverage when pole-mounted (0˚ or 6˚ downward). When used atop a ULT18 subwoofer, PreSonus supports a maximum subpole height of 31 inches.

Optional Accessories (Sold Separately)

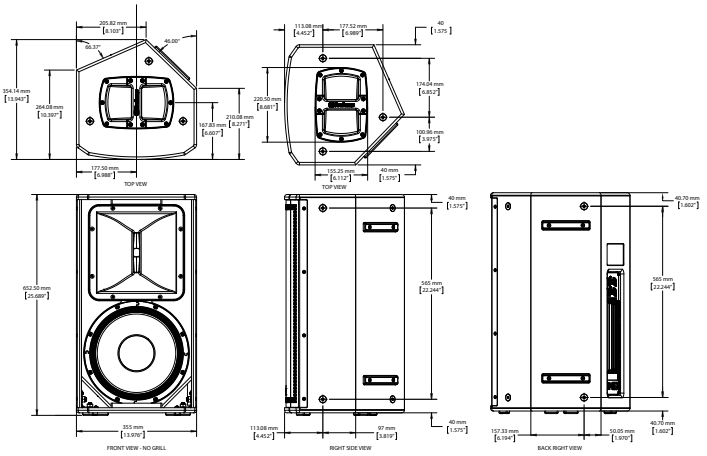
The following optional accessories are available:

Suspension Kit (M10AI-KIT). The M10 suspension kit is intended for use with all ULT-series loudspeakers and includes four M10 eyebolts.

ULT12-Cover Protective Soft Cover. This protective soft cover is custom-fitted for the ULT12. Tough, rip-resistant material protects loudspeaker cabinets during transportation. A cutout allows access to the handles.

Custom Subpole (SP1BK). Use the custom, threaded pole to mount a ULT-series full-range loudspeaker over an ULT18 subwoofer. Pole lengths have been measured and tested for system stability

Technical Specifications



Type	Active 2-way
LF Driver	10” (2.5” voice coil)
HF Driver	1” Exit (1.75” voice coil)
Amplifier Type	Class D
Total System Power	1,300W Peak (650W RMS)
LF Driver Power	1,000W Peak (500W RMS)
HF Driver Power	300W Peak (150W RMS)
Frequency Range	55 Hz – 18 kHz (±3 dB)
Crossover Frequency	1.6 kHz
Maximum Peak SPL	135 dB SPL
Nominal Dispersion (H x V)	110˚ x 50˚
Inputs	1 line (combo), 1 mic/line(combo)
Outputs	Direct line out (XLR), Mix out (XLR)
User Controls	Line Level, Mic Level, Preset Select, HPF On/Off, LED On/Off
Indicators	Signal, Clip, Over Temp
Enclosure	15 mm Eucalyptus plywood
Mounting	Dual-position pole mount, 12 M10
Handles	2 (Top and Side)
Monitor Angle	30˚
Dimensions (H x W x D)	25.25” x 14” x 13.9” (641 mm x 356 mm x 353 mm)
Weight	52 lbs. (23.6 kg)