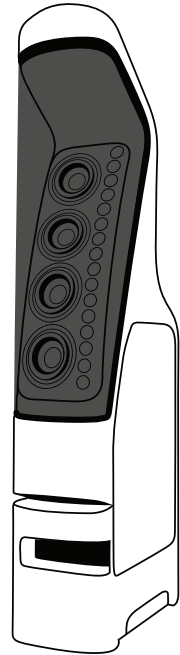


Tempest Tower

The TruAudio Tempest Tower is an outdoor line array loudspeaker designed to deliver even sound coverage, high output, and scalable performance. This design uses advanced driver alignment to maintain clarity and consistency across long outdoor distances. The Tempest Tower contains sixteen 1 inch tweeters, four 4 inch mid range drivers, and one 10 inch woofer housed in a weather resistant enclosure suitable for permanent outdoor installation.



1. Required Tools

Tools required depend on the installation method.

Buried installation

- Shovel
- Level
- Direct burial speaker cable

Base plate installation on hard surfaces

- Drill
- Installer provided mounting hardware appropriate for the surface (concrete anchors, masonry hardware, or lag bolts)

2. Installation Methods

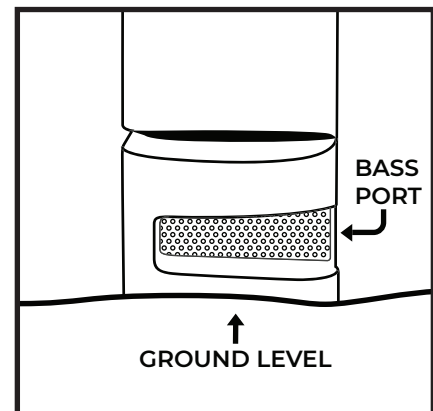
2.1 Buried Installation

The Tempest Tower can be partially buried for stability.

- Select a stable location free of irrigation spray.
- Dig a hole deep enough for the lower portion of the tower body.
- Set the tower into the hole while keeping the bass port completely above ground level.
- Backfill the soil firmly around the tower.
- Ensure the tower is level and stable.

Spacing Recommendation

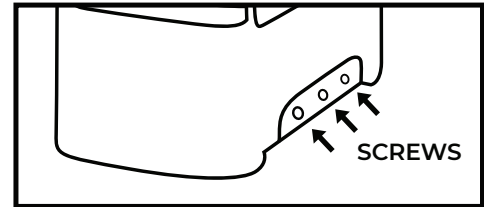
- Install towers 25 ft. to 30 ft. apart for optimal coverage.



2.2 Base Plate Installation

The Tempest Tower can also be mounted to hard surfaces using the provided base plate.

- Remove the base plate from the Tempest Tower by removing three screws.
- Position the base plate in the desired location.
- Mark mounting holes on the surface.
- Drill holes and insert the appropriate mounting hardware (installer provided).
- Use the include spacers if needed.
- Secure the base plate.
- Attach the Tempest Tower to the mounted base plate using the three screws.
- Confirm that the tower is level and secure.



2.3 Optional: Speaker Stabilization

When the Tempest Tower is installed over dirt, it can be stabilized by driving conduit into the ground, then connecting the conduit to the mounting plate. There are 6 holes on the bottom of the mounting plate that will accept 1" EMT conduit connectors

- Install one or more 1" EMT conduit connectors onto the bottom of the mounting plate (use more for softer soil to improve stability). A compression fit will provide the strongest connection.
- Cut the 1" conduit to whatever length is suitable for the site conditions. Longer is better for soft soil, shorter is fine for harder or rocky soil. Plan for something between 12-24".
- Install the pieces of 1" conduit into the EMT connectors on the mounting plate, with the conduit facing down, and the mounting flanges facing up.
- Drive the whole assembly into the soil using a hammer. Ensure that the plate is level.
- Connect the wires and mount the speaker to the mounting plate for a secure connection.

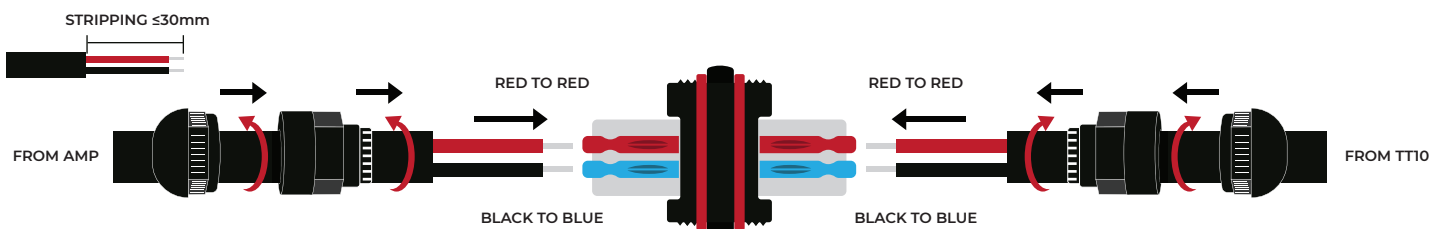
3. Wiring and Connections

3.1 Cable Type & Gauge

- 2-conductor, direct burial speaker cable
- 16 AWG to 12 AWG
 - Use thicker wire for long run lengths to reduce resistance.

3.2 Connection

- Route the direct burial cable from the amplifier location to the tower.
- Strip the wire ends and connect positive to positive (red to red) and negative to negative (black to blue) using the included weatherproof connector. See diagram below.
- Bury and protect cable according to local code requirements.

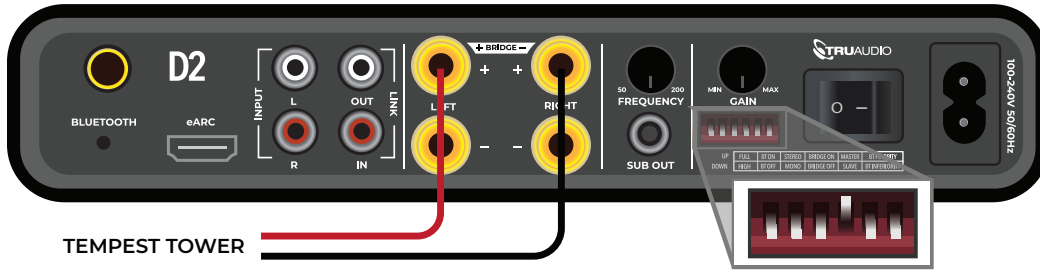


4. Amplifier Setup

Each Tempest Tower is recommended to be powered by one TruAudio D2 amplifier or a 100w amplifier.

Required settings on the D2 amplifier:

- Set amplifier to mono mode.
- Set amplifier to bridged output.
- Connect the Tempest Tower to the bridged output binding posts.
- Use the “Link” output to connect to another D2 amplifier.

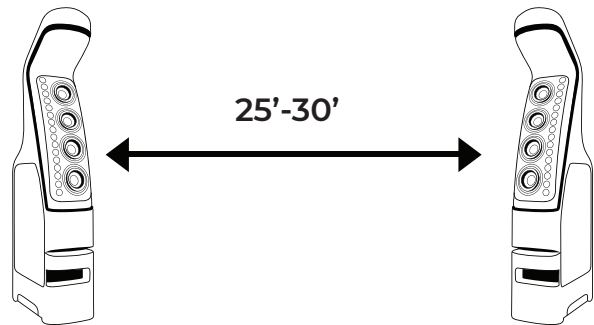


5. System Layout

5.1 Two Tower Layout

Use this configuration for most medium sized outdoor areas.

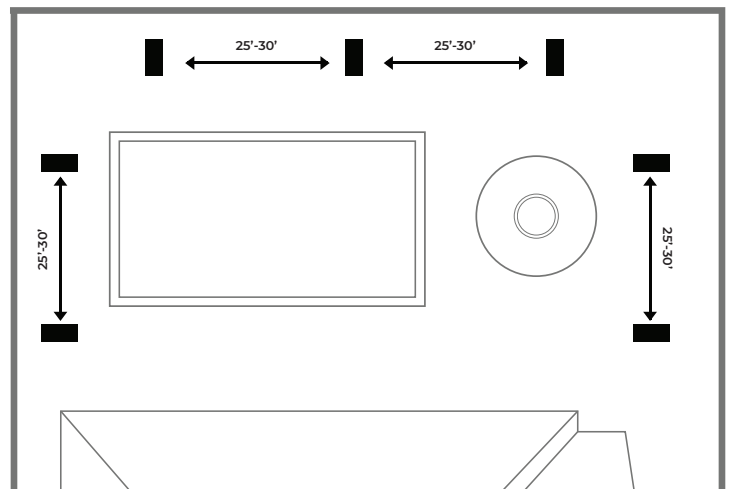
- Place towers 25 ft. to 30 ft. apart.
- Aim both towers toward the primary listening area.
- Route each tower to its dedicated D2 amplifier.
- Maintain consistent spacing for uniform coverage.



5.2 Multi-Tower Layout

Use for large outdoor installations such as wide yards or commercial spaces.

- Maintains 25 ft. to 30 ft. spacing between towers.
- Connect each tower to its own D2 amplifier or D16 amplifier.
- Place towers along the perimeter for even distribution.
- Coordinate wire routing to avoid signal interference and physical obstructions.



■ Tempest Towers



6. Maintenance

- Clean the Tempest Tower with mild soap and water as needed.
- Do not use solvents or harsh chemicals.
- Inspect wiring annually to ensure cable integrity.
- Keep the bass port free from debris.
- Winter Cover
 - A protective cover is included. Use the cover during winter months or extended periods of non use.

7. Troubleshooting

No Sound

- Verify amplifier is powered on.
- Confirm amplifier is set to mono and bridges.
- Check wiring polarity.
- Inspect cable for damage.

Low Output

- Confirm that only one tower is connected to one D2 amplifier.
- Check wire gauge on long runs.
- Inspect connections for corrosion.

Distortion

- Ensure that the amplifier is not clipping.
- Confirm tower is not obstructed by solid objects or debris.

6. Safety and Handling

- Lift the product using two hands to maintain stability.
- Do not install in areas subject to flooding.
- Keep the bass port above ground level when using the buried installation method.
- Do not direct irrigation spray at the speaker.
- Disconnect power from the amplifier before making any wiring connections.

Specifications

TEMPEST TOWER

Speaker Type	Outdoor line array bollard
Woofer	10" long throw polypropylene waterproof bandpass subwoofer
Midrange	(4) 4" polypropylene mid-woofers
Tweeter	(16) 1" marine grade tweeters
Power	200W
Freq. Response	37 Hz to 20 kHz (-3 dB)
Impedance	4Ω
Sensitivity	87 dB (2.83 V/1 m)
Dimensions	H: 46" (1168.5mm) x W: 8" (203.2mm) x D: 16.5" (419mm)

