dependent / variable

Technical Rider (2025)



artist	Joseph Branciforte
format	distributed sound installation
standard configuration	24 loudspeakers, 8 low speaker platforms
operation	continuous, unattended

1. Overview

dependent / variable is an autonomous, distributed sound installation composed of independent low sound platforms arranged throughout an exhibition space. The work is designed to be installed without the artist's physical presence.

The installation uses a set of small full-range loudspeakers, compact amplifiers, pre-built cable assemblies, and an iPad control interface—all of which can be shipped from New York.

Each pair of platforms operates as a self-contained unit, driven by a single-board computer and producing stereo sound. No additional networking or inter-platform cabling is required.

Once installed, the system runs continuously and requires minimal supervision.

2. Standard Configuration

The standard configuration consists of ***eight (8) sound platforms*** distributed across the exhibition space, housing a total of ***twenty-four (24) loudspeakers***. Sound platforms are grouped into stereo arrays, with each array driven by one computing module and stereo amplifier.

The current reference configuration includes two platform sizes:

- ***4 platforms:*** 96 × 24" (8 ft × 24 in)
- ***4 platforms***: 72 × 18" (6 ft × 18 in)

Platform orientation and placement can be adapted to suit the architecture of the venue and may be modified in coordination with the artist.

3. Shippable Components

- (4) 8" loudspeaker
- (8) 6.5" loudspeaker
- (8) 4" loudspeaker
- (4) 2.5" loudspeaker

- (8) pre-fabricated speaker wire harnesses

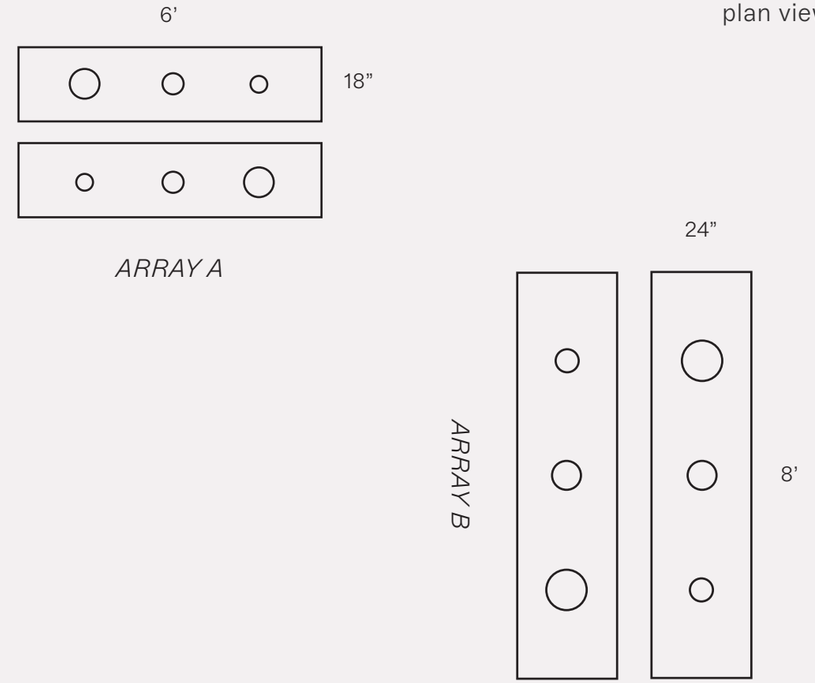
- (4) Raspberry Pi single-board computers
- (4) HiFiBerry speaker amplifiers

- platform support cubes
  —six 3×3" pine wood cubes per board
  —up to 48 cubes available

- (1) iPad controller (with gallery interface pre-loaded)

- (1) WiFi router (used for setup and calibration only)

dependent/variable
plan view, 8 platforms

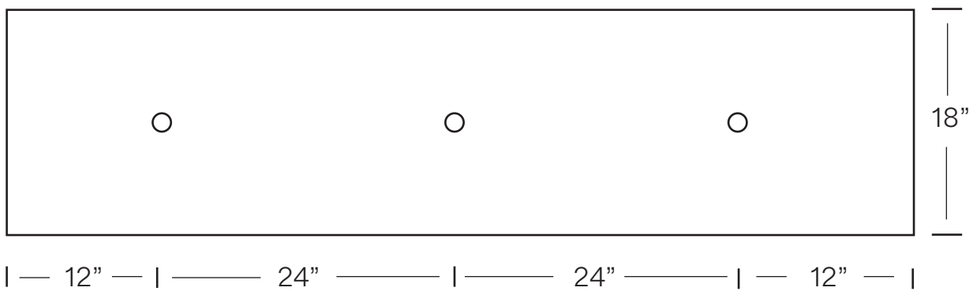


4. Platform Fabrication

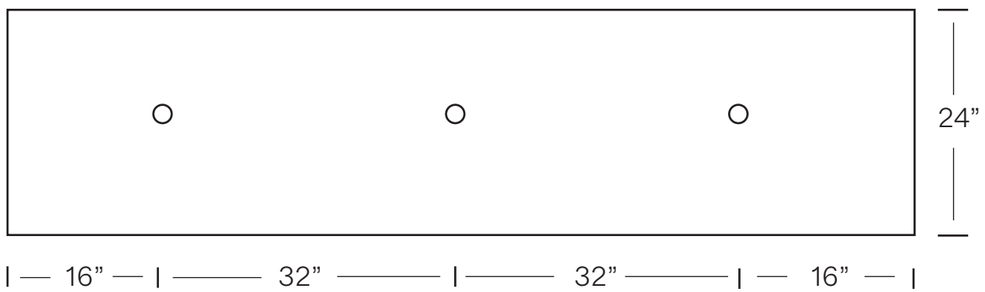
Each platform functions as a low-profile horizontal surface supporting speakers and concealed cabling.

Top surface: white melamine, 0.75” thickness (reference)
Acceptable alternatives: painted MDF, plywood, or locally sourced wood
Finish: white matte or low-sheen preferred.
Cable pass-throughs: three 5/16” cable pass-through holes, evenly distributed along the long axis.

6 foot platform, top view



8 foot platform, top view

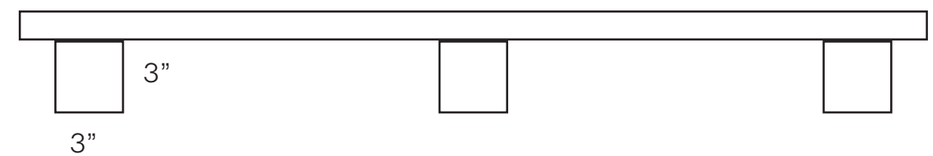


5. Platform Support

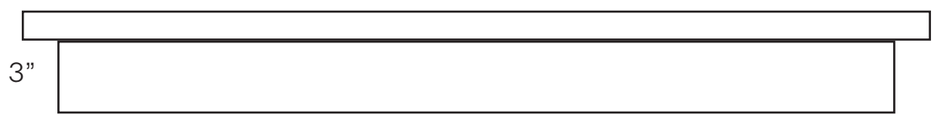
Platform Support (shippable): each platform can be supported by ***six (6) 3×3” wood cubes***, which are shippable from New York.

Platform Support (fabrication): 3×3” cubes can also be fabricated locally with pine wood (or similar) finished in matte white. Alternatively, a simple frame can be constructed at 3” height.

platform cube support, side view (cubes are shippable)



platform frame support, side view



6. Sound Modules

Each of the 4 arrays (platform pair) host the following identical lightweight audio system.

- (1) Computing module (Raspberry Pi–based)
- (1) Compact amplifier / DAC (Raspberry Pi header module)
- (6) Loudspeakers in gradated sizes.

7. System Architecture

Each of the 4 arrays (platform pair) operates autonomously.

Key characteristics:

- No audio connections between platform pairs
- No data or network connections
- No shared clock or synchronization
- No internet connection required

8. Optional Light Component

An optional light component may be included. Simple incandescent or LED bulbs are controlled in parallel with the sound system, functioning as a restrained visual score.

- Lights operate independently of the sound platforms
- No video, screens, or imagery are used
- The light component may be omitted without affecting the sound installation



full gallery view



optional light component

9. Installation, Operation & Support

Personnel

- 2 technicians
- General AV familiarity sufficient

Time

- Approx. 1 day for installation and calibration

Venue requirements

- Standard power outlets (120–240V)
- Clear floor space
- Basic hand & power tools

The installation is designed to be realized without the artist's physical presence. Remote support is available during installation if needed.

Contact

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