

## Outdoor sound

### Goals

Clean clear articulate sound with a uniform sound field.

### Things to consider for outdoor sound

- General topography
- Hardscape and structure locations
- Areas where people will natural congregate: Pools, BBQ and sitting/eating areas
- Size of area to be covered
- Ambient noise levels (hot tubs, waterfalls, pump and motors, traffic etc.)
- Location of neighbors
- What type of music do they like? How loud will it be played?
- System Hardware
  - Musical sources
  - Where will the AV gear be located?
  - How will the system be controlled?
  - Path of wire to speaker

### How is outdoor sound different than indoor sound?

Sound energy dissipates very quickly outdoors. To achieve a relatively uniform sound field we need many speakers playing at moderate levels rather than a few speakers playing very loudly.

### Type of Speakers

- Surface mounted.
- Planter Speakers.
- Architectural Speakers
- Satellites with Subwoofer.
- Rocks.
- Stealth Speakers (partially buried.)
- Ballard style.
- Large venue high volume.