

## PROJECT PROFILE

## Highpointe Church

Designed and Installed by Enginuity of Tulsa



When Highpointe Church in Oklahoma City was struck by lightning in a severe electrical storm, demolishing the main building's electrical systems and all connected lighting and audio equipment, its leaders didn't hesitate. They called on 35-year veteran systems integrator and designer Enginuity, headquartered in Tulsa, to design and install a new system for the 1980s-vintage, 680-seat sanctuary, including a state-of-the-art PA system from Fulcrum Acoustic.

### Challenges

As an Assembly of God church with contemporary services featuring a seven- to nine-piece praise band, Highpointe required a very powerful and precise system that could focus sound on the seating areas to maximize clarity.

### Solution

To build the sound system with the requisite high SPLs and precise directional control, the Enginuity team chose three custom-built Fulcrum LCR clusters, each with three powered DX1565AC dual 15-inch cabinets with 60° x 45° dispersion – an unusual configuration. DX Series 3-way loudspeakers provide superior output and pattern control in an enclosure size that would typically house a conventional 2-way system. Each of the nine cabinets is driven by two 1,500-watt modules for a total of 3,000 watts per channel.

Four powered FA28ac dual 8-inch coaxial loudspeakers were deployed as front fills, and four dual 15-inch TS215 direct-radiating subwoofers were tied into the center cluster. For sub-lows, four TS221 dual 21 inch direct-radiating subwoofers were ground stacked on the left and right of the stage. The end result of this massive and challenging force majeure-caused AVL overhaul is that Fulcrum loudspeaker's signature clarity and well-behaved directionality have Highpointe Church sounding brighter and better than ever.

### Project Details

#### Location

Oklahoma City, Oklahoma

#### Product Category

House of Worship

#### Project Type

680-seat church with seven- to nine-piece band

#### Fulcrum Products

- (9) DX1565 Dual 15 inch Coaxial Loudspeakers, 60° x 45°
- (4) FA28ac Self-Powered Dual 8 inch Coaxial Loudspeakers, 90° x 60°
- (4) TS215 Dual 15 inch Direct-Radiating Subwoofers
- (4) TS221 Dual 21 inch Direct-Radiating Subwoofers

#### Supporting Products

Powersoft K20 2-Channel Power Amps

(2) Symetrix DSP Units

Yamaha CK5 Digital Mixer

