



American Technology Systems

Alan & Cindy Powers – Home Audio/Video Installation

Home audio and video installation performed in Valley Spring, TX by American Technology Systems and Kasee Powers. Project highlights included multi-room audio and a music server with on screen display.

Project Manger: Kasee Powers
8/25/2007

Initial Consultation

Initial consultations began prior to construction. ATS advised on equipment options, available features, electrical and grounding requirements, internet, phone and TV providers, and an appropriate equipment installation location. All aspects from initial design to installation were managed and performed by ATS.

The home was located in a very rural location outside of Llano, TX posing several logistical challenges for ATS. Satellite TV and Satellite internet were the only options available. ATS also needed to solve a traditionally high risk lightening situation and frequent power outages in the area. After a few consultations the owners decided on key requirements and features.

Project Features & Requirements

- Cabling for Current & Future Systems
 - Cat5e / Cat3 / Coax
- Easy to Operate Equipment
- Superior Lighting Protection & Protection from Power Outages
- TV's Appropriate for Bright Light Areas
- Music in All Interior Rooms w/ Independent Volume Controls
- Music on Back Deck w/ Independent Volume Control
- Surround Sound in Living Room
- Multiple Audio Input Source Options
 - CD / DVD
 - Satellite
 - FM Tuner
 - Music Server w/ On Screen Display
 - Audio for Living Room TV
- Internet
 - Wired & Wireless Connectivity Through the Home
 - Secure Connectivity to the Owners Corporate Office

Installed Solution

ATS and the owner concluded on the following products and solutions.

Structured Wiring

- 18 Drops Total
 - Standard Locations Received - 2 CAT5e / 1 CAT3 / 2 COAX
 - Media Locations Received - 2 CAT5 / 1 CAT3 / 8 COAX
- 14AWG Speaker Wire

Electrical Protection

- #6 Ground from Meter Loop to Equipment Rack
- Isolated Electrical Outlets for TV Locations & Rack
- Furman Power Conditioner
- Battery Backup for Equipment Rack - APC 1500VA

Internet / Phone / TV

- Verizon Analog Phone Service
- Hughes Commercial Satellite Internet - 1.5Mbps
- PIX 501 Firewall - VPN Connectivity to Owners Office
- Cisco Wireless Access Point
- Dish Network Receiver w/HD

Multi-Room Home Audio

- SpeakerCraft MZC-66 - 6 Zone, 6 Source Controller / Amplifier
 - Independent Audio Source Control
 - Independent Volume Control
- Audio Sources
 - Cambridge Audio Azur 640H - Music Server w/ On-screen Display
 - Dish Network - Sat Radio
 - Sangean HDT-1 - HD FM Tuner
 - Audio from Living Room TV
 - AUX Input from PC

Living Room

- 65" Mitsubishi DLP HDTV
- Denon AVR-1906 Receiver w/ Dual Zones
- Surround Sound Utilizing In-ceiling Speakers
- Cambridge Audio DVD79 - HD DVD

Installation Pictures - Construction to Finished Install











