

Home Theater Technologies Explained

Explains principles of A/V signals, formats, reproduction, and performance

1. **Course Overview**
2. **Home Theater Sources**
 - Home Theater Block Diagram
 - Signals and Sources
 - Streaming Players
3. **Home Theater Video Displays**
 - Video Resolution
 - Display Aspect Ratio
 - Direct View Displays
 - Projection Display
4. **Home Theater A/V Processing**
 - Analog vs. Digital
 - Cable and Connectors
 - Signal Routing/Switching
5. **Home Theater Audio**
 - Audio Reproduction
 - Speakers to Use for Surround Sound
 - Equalization – Types
 - Speaker Efficiency
6. **Control and Environment**
 - Control Communication Types
 - Remote Controls
7. **Design a Home Theater System**
 - Consult with Homeowner
 - Layout Design to Scale
 - Select Video Display
 - Determine Surround Configuration
 - Specify Sources
 - Amplifier Considerations
 - Select Control System
 - Lighting Types and Integration
 - Factors Affecting Room Acoustics
 - Document Design
8. **Begin a Home Theater System Install**
 - Review with Architect/Builder
 - Room Rough-In
 - Pre-Wire
9. **Finish Home Theater Installation**
 - Trim-Out Installation
 - Install Equipment
 - Start-up and Testing
 - Programming & Calibration
 - Documentation & Customer Education
10. **Troubleshooting Home Theater**
 - Checking for Ground Loops
 - Overheating
 - Adequate Power, Surges, and Noise
 - Source or Media Problems
 - Troubleshooting IR Control
11. **Course Summary**
 - Case Studies
12. **FINAL TEST**

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DESCRIPTION

Create the best viewing experience possible by learning key concepts of home theater, including aspect ratios, video formats, audio formats, reproduction and power conditioning. Learn about digital sources and streaming media. Grasp detailed step-by-step system design, installation procedures, along with video and audio calibration to maximize performance.

OBJECTIVES

- Identify the benefits of Home Theater
- Describe the technology fundamentals of a Home Theater system
- Name Home Theater sources
- Explain Audio/Video processing
- List video display types
- Describe audio reproduction
- Identify control options for a Home Theater
- Outline how to design a Home Theater system
- Explain how to install a Home Theater

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