



Digitenna Technical Presentation

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Digitenna[®]

The new standard in reception.[™]

ANY QUESTIONS???

Introduction

- ▣ **What we will cover...**
 - Design
 - ▣ Basic Theory
 - ▣ Antenna Construction
 - ▣ Amplification
 - Installation
 - ▣ Site Survey
 - ▣ Mounting
 - ▣ Distribution
 - Misc./Helpful Information
 - ▣ Industry Standards
 - ▣ Websites / Links / Propagation

Basic Theory

- ▣ Digital / Analog Television Spectrum
- ▣ Antenna Bandwidth
- ▣ Antenna Gain
- ▣ Antenna front/back ratio
- ▣ Antenna Impedance

Basic Theory

- ▣ **Antenna Construction**
 - Types of Commercial Antennas
 - What Makes a good antenna?
 - Combo Antennas
 - Choosing the right antenna

Basic Theory

- ▣ **Amplification**
 - Types of amplifiers
 - Gain / noise figures
 - How much gain?
 - Choosing the right amplifier
- ▣ **Transmission Lines**
 - Types of cables
 - Cable loss
 - Cable impedance
 - Types of connectors

Installation

- ▣ **Site Survey**
 - Select Location
 - Factors to consider (Terrain, Channels, etc.)
 - Field Strength Test

Installation

- ▣ **Mounting**
 - Types of mounts
 - Best location (safety/longevity)
 - Waterproofing roof mounts
 - Cable lead dress
 - Attic installs

Installation

- ▣ **Distribution**
 - Splitters and taps
 - Gain calculations
 - How much signal at a location

Misc. Helpful Information

- ▣ FCC contour maps/standards
- ▣ Website and links
- ▣ DTV/analog overlapping (pre-transition)
- ▣ Propagation