



## A.H. Systems, Inc.

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# SAS-581-10

## Standard Gain Horn Antenna

1.70 GHz – 2.60 GHz

This Standard gain horn antenna has medium gain, low VSWR, and a constant antenna factor; excellent for both immunity and emissions testing.



Frequency Range: 1.70 GHz – 2.60 GHz

Antenna Factor: 25 - 28 dB/m

Average Gain: 10 dBi

Maximum Continuous Power: 500 Watts

Beamwidth E-plane: 65°

Beamwidth H-plane: 45°

Impedance: 50 Ω

VSWR: 1.3:1 (1.6:1 max)

Connector: WR-430 to N-Type female adapter

### Features

- Frequency Range of 1.70 GHz to 2.60 GHz
- Linearly Polarized High Gain, Low VSWR
- Individually Calibrated at 1 and 3 Meter Horizontal Polarity
- Attached Tripod Mounts for Horizontal and Vertical Mounting
- Three year Warranty

The Standard Gain Horn Antennas are designed specifically for utilization in emissions and immunity testing over the frequency range of 1 to 40 GHz. Each antenna is linearly polarized and has medium gain, low VSWR, and a constant antenna factor. The Standard Gain Horn performance is very precise and predictable through design parameters. Comparisons of measured versus computed antenna factors and gain have been shown to be +/- .5 dB. Therefore, the antenna is considered to be a standard reference, similar to that of a resonant dipole below 1 GHz. The coax-to-waveguide adapter is the only power-limiting component on the antenna and can be removed if high fields are desired. Each Standard Gain Horn comes with a tripod mount that adapts to any tripod with 1/4-20 male threads. Horizontal and vertical polarization is obtained by rotating the antenna on the tripod.

### Recommended Accessories

- ATU-510 (Antenna Tripod Unit, Wooden)
- AEH-510 (Azimuth and Elevation Head)
- SAC-18G-3 (3 Meter Low Loss Cable)



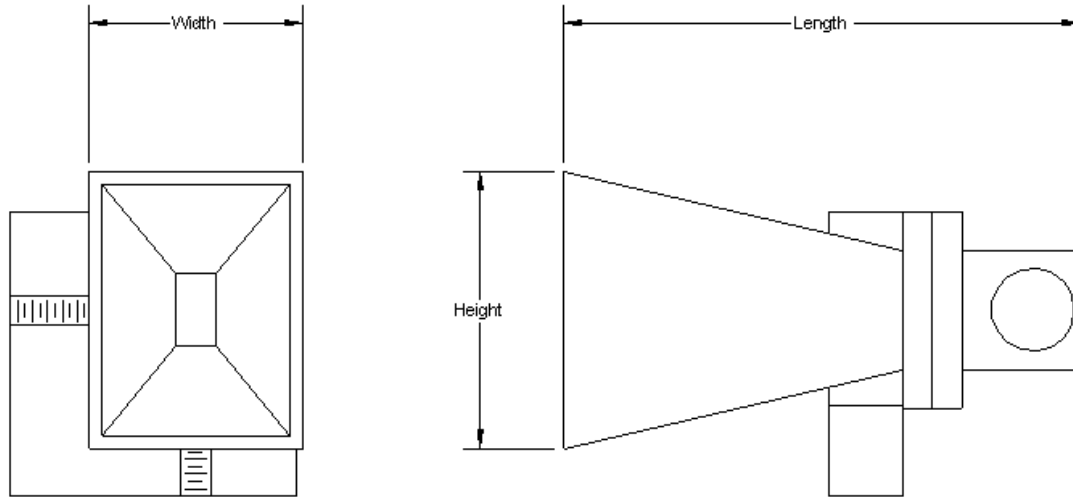
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*Figure 1 – SAS-581-10 (Horizontal Polarization)*

**Physical Dimensions:**

Length: 14.5 in. (36.8 cm)

Width: 4 in. (10.2 cm)

Height: 8 in. (20.3 cm)

Weight: 4.1 lb.'s (1.86 kg)