

### Active Directional Antenna

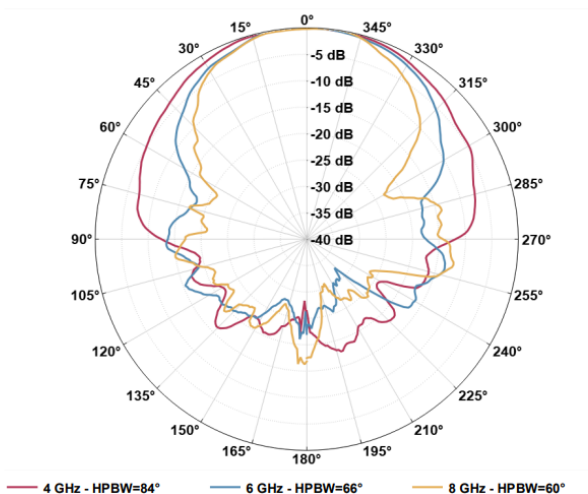
#### HDA-100 Product Overview

The HDA-100 active directional antenna operates from 500 MHz to 10 GHz, meeting various testing requirements across multiple scenarios. Its superior directional characteristics enable precise signal source localization. The integrated high-performance broadband amplifier significantly improves system sensitivity, while the switchable Amp Off/Amp On modes provide flexible dynamic range extension. With intelligent compatibility across the HAROGIC spectrum analyzer series and automatic antenna factor loading, the HDA-100 dramatically improves work efficiency. The lightweight, ergonomic design ensures comfortable handling and operation, making extended outdoor work both efficient and effortless.

#### Key Features

- Frequency Range: 500 MHz to 10 GHz
- Directional Radiation Pattern, Passive Gain: 5 dBi
- Typical Noise Figure (NF):  $\leq 1.5$  dB
- Compatible with all HAROGIC Spectrum Analyzers, Automatic Antenna Factor Loading
- Total Weight: 680 g, Compact and Portable
- Ergonomic Design, Suitable for Extended Outdoor Use

Typical Frequency Point Radiation Patterns

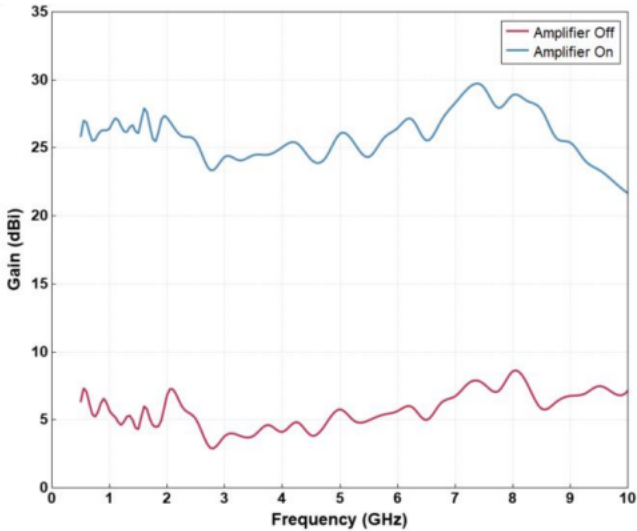


# Specifications

Frequency Range	500 MHz to 10 GHz
Gain	5 dBi (typ.)
Half-Power Beamwidth	66° @ 6 GHz
Polarization Type	Linear
Front-to-Back Ratio	> 15 dB
VSWR	< 2.0 (typ.)
Amplifier Noise Figure	1.5 dB (typ.)
Amplifier Gain	20 dB (typ.)
Maximum Measurable Field Strength	17 V/m @ 6 GHz (Amp Mode)
RF Connection	N (F), 50 Ω
Power Supply	USB Type-C; connects to host via USB Type-C to USB Type-A cable
Calibration Points	191 (50 MHz step)
Dimensions (L x W x D)	430 x 270 x 35 mm
Weight	680 g

## HDA-100 Gain, Antenna Factor and Radiation Patterns

Gain



Antenna Factor

