

# R&S® ADD157 DUAL-POLARIZED VHF/UHF DF ANTENNA



Product Brochure  
Version 01.00

**ROHDE & SCHWARZ**

Make ideas real



# AT A GLANCE

R&S®ADDx multichannel DF antennas are vital to Rohde & Schwarz direction finder performance. The technology is based on over 50 years of experience in developing DF antennas with superior sensitivity and accuracy.

The R&S®ADD157 dual-polarized VHF/UHF DF antenna is optimized for radiolocation from fixed, mobile and transportable spectrum monitoring stations and COMINT/CESM platforms. It covers horizontal and vertical polarization (switchable) and is designed for operation with Rohde & Schwarz multichannel direction finders. The antenna features integrated lightning protection that does not affect performance. The optional R&S®ADD-LP extended lightning protection cross is available.

The R&S®ADD157 has active antenna elements that can be switched to passive operation with a mouse click.

The R&S®ADD157 performance is in line with all relevant ITU recommendations and the ITU Handbook on Spectrum Monitoring.

The R&S®ADD157 can be installed on masts with the R&S®ADD150A mast adapter and used with the R&S®ADD1XTP tripod with adapter. For mobile applications, the R&S®ADD157 can be installed on a vehicle roof with the R&S®AP502Z1 vehicle adapter.

The R&S®IN061 power supply is required for antenna cables longer than 40 m.

## KEY FACTS

- ▶ Frequency range from 20 MHz to 1.3 GHz (vertical polarization) and 40 MHz to 1.3 GHz (horizontal polarization)
- ▶ Superior system DF accuracy
- ▶ Antenna elements with active/passive switch
- ▶ Integrated lightning protection that does not affect performance
- ▶ In line with all relevant ITU recommendations



# SPECIFICATIONS IN BRIEF

## Specifications in brief

Frequency range	vertical polarization	20 MHz to 1.3 GHz
	horizontal polarization	40 MHz to 1.3 GHz
Polarization		vertical and horizontal (switchable)
System DF accuracy	with installed lightning protection, in line with Recommendation ITU-R SM.2060	
	20 MHz to 200 MHz	1° RMS (typ.)
	200 MHz to 1.3 GHz	0.5° RMS (typ.)
Antenna element design	in line with ITU Handbook on Spectrum Monitoring, edition 2010, chapter 3.2.4.1	active antenna element with active/passive switch
Lightning protection	in line with ITU Handbook on Spectrum Monitoring, edition 2010, chapter 2.6.2.4.6	lightning rod mounted vertically above the antenna system
Dimensions	Ø × H, without lightning rod	approx. 1.1 m × 0.45 m (3.61 ft × 1.48 ft)
Weight	without ice deposit, with lightning protection rod	approx. 30 kg (66.14 lb)

# ORDERING INFORMATION

Description	Type	Order No.
<b>Antenna</b>		
Dual-polarized VHF/UHF DF antenna, color: light ivory	R&S®ADD157	4069.4800.22
Dual-polarized VHF/UHF DF antenna, color: yellow olive	R&S®ADD157	4069.4800.23
Dual-polarized VHF/UHF DF antenna, color: squirrel grey	R&S®ADD157	4069.4800.24
Dual-polarized VHF/UHF DF antenna, color: bronze green	R&S®ADD157	4069.4800.25
Dual-polarized VHF/UHF DF antenna, color: traffic red	R&S®ADD157	4069.4800.26
<b>Accessories</b>		
<b>Adapter for masts</b>		
Mast adapter, color: light ivory	R&S®ADD150A	4041.2655.02
Mast adapter, color: yellow olive	R&S®ADD150A	4041.2655.03
Mast adapter, color: squirrel grey	R&S®ADD150A	4041.2655.04
Mast adapter, color: bronze green	R&S®ADD150A	4041.2655.05
Mast adapter, color: traffic red	R&S®ADD150A	4041.2655.06
<b>Adapter for vehicles</b>		
Vehicle adapter, color: light ivory	R&S®AP502Z1	0515.1419.02
Vehicle adapter, color: yellow olive	R&S®AP502Z1	0515.1419.03
Vehicle adapter, color: squirrel grey	R&S®AP502Z1	0515.1419.04
Vehicle adapter, color: bronze green	R&S®AP502Z1	0515.1419.05
<b>Lightning protection</b>		
Extended lightning protection	R&S®ADD-LP	4069.6010.02
<b>Power supply</b>		
Power supply	R&S®IN061	4041.9508.02
<b>Tripods</b>		
Tripod with adapter, color: bronze green	R&S®ADD1XTP	4063.4409.02
Tripod with adapter, color: aluminum	R&S®ADD1XTP	4063.4409.03

## Service at Rohde & Schwarz You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

## Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

[www.rohde-schwarz.com](http://www.rohde-schwarz.com)

## Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management

**ISO 9001**

Certified Environmental Management

**ISO 14001**

## Rohde & Schwarz training

[www.training.rohde-schwarz.com](http://www.training.rohde-schwarz.com)

## Rohde & Schwarz customer support

[www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support)

