

R&S® ADD050SR SUPER-RESOLUTION VHF 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.

R&S®ADD050SR super-resolution VHF DF antenna is optimized for radiolocation from fixed spectrum monitoring stations, COMINT/CESM platforms and traffic control DF stations. It is designed for operation with Rohde & Schwarz multichannel direction finders and features integrated lightning protection that does not affect performance. The optional R&S®ADD-LR lightning rod and R&S®ADD-LP extended lightning protection cross are available. The R&S®ADD050SR is prepared for the super-resolution DF method.

The R&S®ADD050SR has active antenna elements that can be switched to passive operation with a mouse click.

R&S®ADD050SR performance is in line with all relevant ITU recommendations and the ITU Handbook on Spectrum Monitoring.

Additional Rohde & Schwarz DF antennas can be installed on top of the R&S®ADD050SR with the R&S®KM051 intermediate mast.

The R&S®IN061 power supply is required for antenna cables longer than 34 m.

KEY FACTS

- ▶ Frequency range from 20 MHz to 450 MHz
- ▶ Superior system DF accuracy
- ▶ Antenna elements with active/passive switch
- ▶ Prepared for the super-resolution DF method
- ▶ In line with all relevant ITU recommendations

SPECIFICATIONS IN BRIEF

Specifications in brief		
Frequency range		20 MHz to 450 MHz
Polarization		vertical
System DF accuracy	with installed lightning protection, in line with Recommendation ITU-R SM.2060	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. 3 m × 2.8 m (9.84 ft × 9.19 ft)
Weight	without ice deposit, with lightning protection rod	approx. 85 kg (187.39 lb)

ORDERING INFORMATION

Description	Type	Order No.
Antenna		
Super-resolution VHF DF antenna, color: light ivory	R&S®ADD050SR	4071.7003.12
Super-resolution VHF DF antenna, color: yellow olive	R&S®ADD050SR	4071.7003.13
Super-resolution VHF DF antenna, color: squirrel grey	R&S®ADD050SR	4071.7003.14
Super-resolution VHF DF antenna, color: bronze green	R&S®ADD050SR	4071.7003.15
Super-resolution VHF DF antenna, color: traffic red	R&S®ADD050SR	4071.7003.18
Accessories		
Intermediate masts		
Intermediate mast, color: light ivory	R&S®KM051	4041.9008.22
Intermediate mast, color: yellow olive	R&S®KM051	4041.9008.23
Intermediate mast, color: squirrel grey	R&S®KM051	4041.9008.24
Intermediate mast, color: bronze green	R&S®KM051	4041.9008.25
Lightning protection		
Lightning protection rod, color: light ivory	R&S®ADD-LR	4109.0800.02
Lightning protection rod, color: yellow olive	R&S®ADD-LR	4109.0800.03
Lightning protection rod, color: squirrel grey	R&S®ADD-LR	4109.0800.04
Lightning protection rod, color: bronze green	R&S®ADD-LR	4109.0800.05
Lightning protection rod, color: traffic red	R&S®ADD-LR	4109.0800.06
Extended lightning protection	R&S®ADD-LP	4069.6010.03
Power supply		
Power supply	R&S®IN061	4041.9508.02

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

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

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

