

R&S®AC008 Microwave Directional Antenna

1 GHz to 18 GHz/0.85 GHz to 26.5 GHz

Manually steerable directional antenna for the detection of RF signals and for field-strength measurements



Features

- Wide frequency range
- Reception of linear, dual-linear and circular polarization (depending on feed used)
- Collapsible for easy transport
- For compensating cable loss, active feeds can be used

Brief description

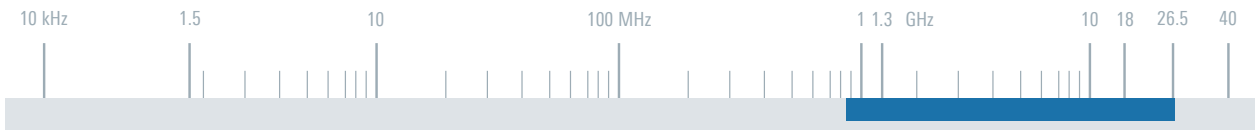
The R&S®AC008 is a manually steerable directional antenna for mobile applications.

The reflector has a diameter of 0.9 m and – depending on the feed used – receives signals in the range 1 GHz to 18 GHz or 0.85 GHz to 26.5 GHz.

The R&S®AC008 is used for detecting radio signals and for field-strength measurements. It can also be directed toward geostationary satellites.

The use of different feeds allows reception of any type of polarization. For transportation, the directional antenna (including the feed) can be collapsed to a handy size.





Specifications

Frequency range	1 GHz to 18 GHz (models .02/.04), 0.85 GHz to 26.5 GHz (model .05)
Polarization with feed	
R&S®HL024A1	dual-linear (model .02)
R&S®HL050	linear (model .05)
R&S®HL024S2	linear/circular (model .04)
Input impedance	50 Ω
VSWR	≤2.5
Gain	15 dBi to 40 dBi (1 GHz to 18 GHz)
Half-power beamwidth	19° to 1.1° (1 GHz to 18 GHz)

Positioning range

Azimuth	±360°
Elevation	-6° to +44°
Connector	SMA female
MTBF	>500 000 h
Operating temperature range	-30°C to +50°C
Reflector diameter	approx. 0.9 m (approx. 35.4 in)
Weight	approx. 12 kg (approx. 26.5 lb)

Ordering information

Ordering information	Type	Order No.
Microwave Directional Antenna	R&S®AC008	
1 GHz to 18 GHz, dual-linear polarization		0671.5017.02
1 GHz to 18 GHz, linear/circular polarization		0671.5017.04
0.85 GHz to 26.5 GHz, linear polarization		0671.5017.05
Recommended extras		
Tripod	R&S®AC008-Z	0671.5117.02
Control Unit for R&S®HL024S2	R&S®GB016	4056.7006.02
Control Cable, length 10 m	R&S®GB016Z1	4056.7270.02
Microwave Cable, length 5 m	R&S®AC008W2	0751.6931.04
Microwave Cable, length 10 m	R&S®AC008W2	0751.6931.05
Telescope	R&S®AC008F1	0751.6919.02

Typical gain (blue) and half-power beamwidth (black) of R&S®AC008 with feed R&S®HL050

