R&S®AM524 **LOW-NOISE ACTIVE ANTENNA SYSTEM**

100 Hz to 1 GHz; optional 18 GHz

For measuring low-level signals in anechoic chambers



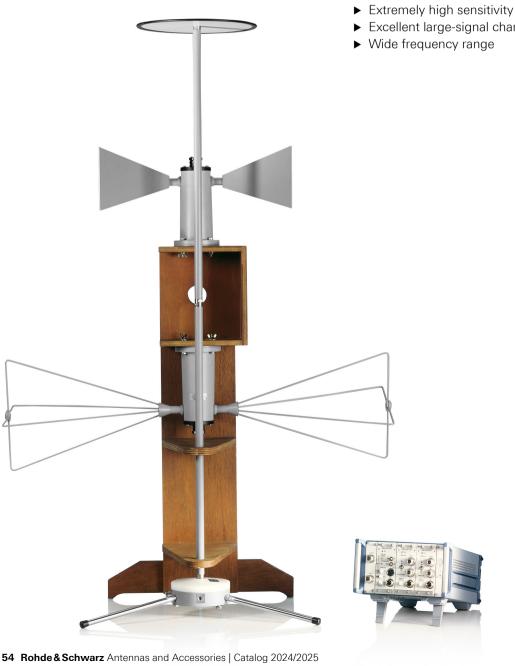
The R&S®AM524 low-noise active antenna system has been designed for measuring low-level signals in anechoic chambers. Criteria for dimensioning such antennas are different from those of active antennas used outside shielded rooms.

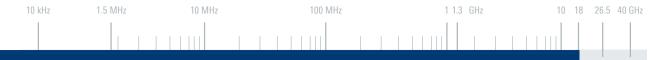
The R&S®AM524 features maximum sensitivity, small dimensions and the capacity to handle large signal emissions from the EUT.

Individual calibration in line with ANSI standards available.

Key facts

- ► Excellent large-signal characteristics





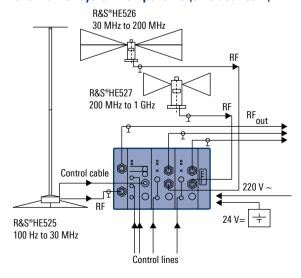
Specifications		
Frequency range		100 Hz to 1 GHz (in three subranges)
		850 MHz to 18 GHz 1) (optional with R&S®HL050S7)
Input impedance		50 Ω
Antenna factor ²⁾	100 Hz to 30 MHz	-2 dB (1/m) to 0 dB (1/m)
	100 MHz	–11 dB (1/m) to –3 dB (1/m)
	1 GHz	-6 dB (1/m) to +17 dB (1/m)
Field strength sensitivity ($\Delta f = 1 \text{ Hz}$, S/N = 0 dB)	100 Hz	0 dB(μV/m) (typ.)
	100 kHz	-43 dB(μV/m)
	30 MHz	–51 dB(μV/m)
	100 MHz	-54 dB(μV/m)
	1 GHz	–37 dB(μV/m)
Power supply	AC	100/120/220/230/240 V ± 10%, 47 Hz to 63 Hz
	DC	22 V to 28 V, max. 0.7 A at 24 V
Connectors		N female
MTBF		> 15000 h
Operating temperature range		+5°C to +40°C
Dimensions (W × H × D)	R&S®HE525	600 mm × 1500 mm × 600 mm (23.6 in × 59.1 in × 23.6 in) (nom.)
	R&S®HE526	1005 mm \times 320 mm \times 320 mm (39.6 in \times 12.6 in \times 12.6 in) (nom.)
	R&S®HE527, model .02	500 mm × 250 mm × 250 mm (19.7 in × 9.8 in × 9.8 in) (nom.)
Weight	R&S®HE525	approx. 5 kg (11.0 lb)
	R&S®HE526	approx. 1.7 kg (3.8 lb)
	R&S®HE527	approx. 1.6 kg (3.5 lb)

¹⁾ Limited to 18 GHz by the R&S®OSP open switch and control platform.

²⁾ Without attenuator or amplifier.

Ordering information	Туре	Order No.
Low-noise active antenna system	R&S®AM524	4015.7001.02
Recommended extras		
Open switch and control platform, without touchscreen	R&S®OSP-220	1528.3105.02
Open switch and control platform, with touchscreen	R&S®OSP-230	1528.3105.03
Module for R&S®OSP, for controlling R&S®AM524	R&S®OSP-BS524	4118.6007.02
Log-periodic directional antenna, with preamplifier, calibrated (up to 18 GHz)	R&S®HL050S7	4064.6040.03

Overview of system components (shielded room)



Typical field strength sensitivity (S/N = 0 dB; $\Delta f = 1$ Hz)

