

R&S®HE300 active directional antenna

The antenna covers the extremely wide frequency range from 9 kHz to 7.5 GHz by means of four plug-in modules. Three of these modules, which cover the range from 20 MHz to 7.5 GHz, are supplied with the antenna. The R&S®HE300HF antenna module is available as an HF option, covering the lower frequency range from 9 kHz to 20 MHz.



Portable monitoring and measuring system

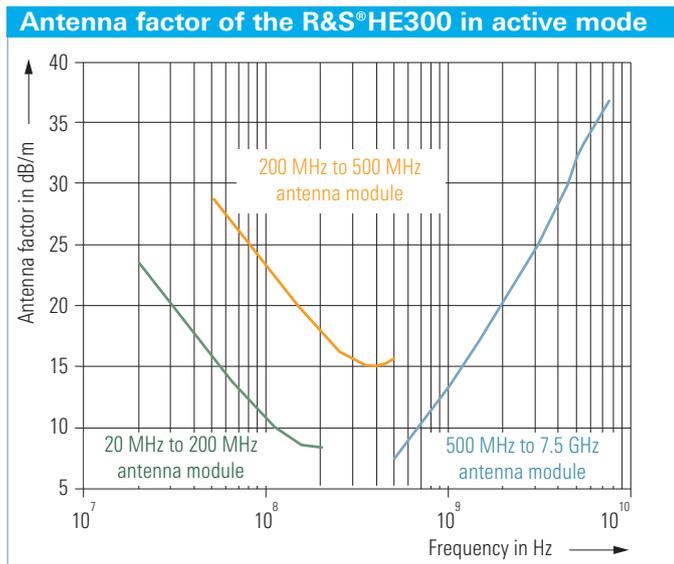
The R&S®HE300 active directional antenna and the R&S®PR100 portable receiver together form a powerful receiving system for locating transmitters. The portable and lightweight instrument combination can perform measurements in buildings or in rough terrain that even four-wheel-drive vehicles cannot access. The cost-effective monitoring system, featuring position finding and level measurement, offers another decisive advantage: It can be transported and deployed relatively inconspicuously.

For long-term monitoring at fixed locations, the antenna can be mounted on a tripod. The connecting thread on the grip piece matches the mounting bolts of conventional camera tripods.

A built-in, switchable low-noise amplifier further enhances system sensitivity at low signal field strengths, thus increasing the probability of intercept (active mode). In the passive mode, the amplifier is bypassed, so that the antenna can also be used in the vicinity of strong signal sources.

Ergonomic design for practical use

The design of the grip piece and the control elements underwent extensive ergonomic testing by experienced designers. The antenna modules are exchangeable; the required module is plugged into the grip piece in accordance with the desired polarization and mechanically locked. All R&S®HE300 components plus the optional R&S®HE300HF antenna module and the R&S®PR100 receiver are accommodated in a rugged hard-shell transit case, which is supplied with the antenna and offers appropriate protection even under the harshest transport conditions.



Key data of the R&S®HE300	
Frequency range	
Antenna module 1	20 MHz to 200 MHz
Antenna module 2	200 MHz to 500 MHz
Antenna module 3	500 MHz to 7.5 GHz
HF antenna module (optional)	9 kHz to 20 MHz
Polarization	linear
VSWR	<2.5 (typ.)
RF output	N connector
Power supply	rechargeable cells or batteries
Overall weight	approx. 6 kg (including transit case)
Operational weight	<1 kg (grip piece with one module)