

R&S®HL562 ULTRALOG



30 MHz to 3 GHz

Ultra-broadband antenna for EMI and EMS applications

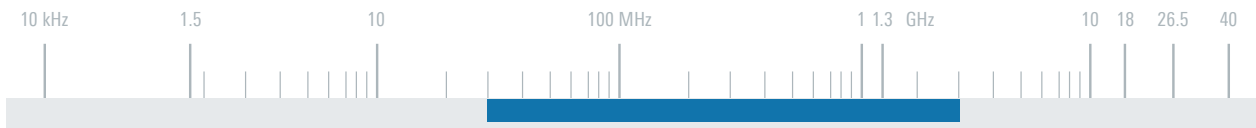
The R&S®HL562 ULTRALOG combines the characteristics of a biconical and a log-periodic antenna. The ULTRALOG is mainly used for measuring emissions in the extremely wide frequency range from 30 MHz to 3 GHz with a single antenna.

The log-periodic part of the antenna is V-shaped in order to increase system sensitivity, in particular between 500 MHz and 1 GHz. Unlike conventional solutions, this gain-increasing measure allows the compact size of the ULTRALOG to be maintained. Optimized symmetry and matching (VSWR) of the ULTRALOG allow its use in EMS measurements where field strengths of 10 V/m or higher are required. The ULTRALOG is supplied without a tripod; the tripod shown is available as an extra. For use with the R&S®HL562Z1 tripod, an RF cable with a 90° angle connector is required.

Key facts

- Only one antenna required to cover an extremely wide frequency range
- Selectable polarization plane
- Gain increase at high frequencies
- Generation of high field strengths for EMS measurements
- Compact size
- Individual calibration in line with ANSI C63.5





Specifications	
Frequency range	30 MHz to 3 GHz
Polarization	linear
Polarization decoupling	> 20 dB
Input impedance	50 Ω
VSWR	typ. < 2
Gain above 200 MHz	typ. 8 dBi
Max. input power (T _A = +40°C)	
30 MHz	150 W + 100% AM
80 MHz	300 W + 100% AM
250 MHz	500 W + 100% AM
1 GHz	280 W + 100% AM
3 GHz	180 W + 100% AM

Connector	N female
MTBF	> 200 000 h
Class of application	laboratory
Operating temperature range	0°C to +40°C
Dimensions (W × H × L)	approx. 0.6 m × 1.65 m × 1.68 m (23.6 in × 65 in × 66.1 in)
Weight	approx. 5 kg (11 lb)

Ordering information	Type	Order No.
ULTRALOG	R&S®HL562	4041.3000.02
Recommended extras		
Tripod, movable	R&S®HL562Z1	4041.3900.02

