

# R&S®HL471 Log-Periodic HF Antenna

5 MHz to 30 MHz

Transmission and reception of horizontally polarized waves over long distances



## Features

- ▮ Reception from 5 MHz
- ▮ Transmission from 7 MHz
- ▮ Extremely small dimensions
- ▮ Low weight
- ▮ Easy and quick assembly
- ▮ Little maintenance required
- ▮ Suitable for roof mounting

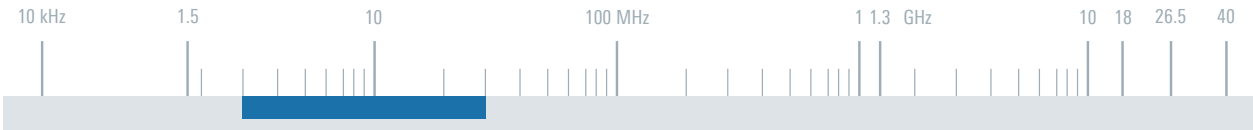
## Brief description

The compact, rotatable R&S®HL471 log-periodic HF antenna can be used for transmission and reception of horizontally polarized waves.

Due to a transmission frequency range from 7 MHz to 30 MHz, the antenna is particularly suitable for communications over long distances. Reception is possible from 5 MHz so that all distances can be covered.

The antenna has been optimized for small dimensions, low weight and little maintenance.





Specifications	
Frequency range	
Reception	5 MHz to 30 MHz
Transmission	7 MHz to 30 MHz
Polarization	linear/horizontal
Input impedance	50 Ω
VSWR	≤2
Max. input power	1 kW CW/2 kW PEP
Gain (on 15 m mast)	
7 MHz to 8 MHz	0 dBi to 6 dBi
8 MHz to 30 MHz	6 dBi to 12.5 dBi
Max. wind speed	180 km/h (without ice deposit)

Connector	N female
MTBF	>100 000 h
Operating temperature range	-30 °C to +50 °C
Dimensions of antenna array	
Length	approx. 8.8 m (approx. 346.5 in)
Width	approx. 11 m (approx. 433.1 in)
Weight of antenna array	approx. 100 kg (approx. 220.5 lb)

Ordering information	Type	Order No.
Log-Periodic HF Antenna	R&S®HL471	0755.3008.02
<b>Recommended extras</b>		
Lattice Mast, length 15 m (standard)	R&S®KM451B2	4028.3400.02
Lattice Mast, length 10 m (for roof mounting)	R&S®KM451B1	4028.3351.02
Hazard Light	R&S®KM451F1	4028.3500.02
Antenna Rotator	R&S®RD130	4059.8503.02
Rotary Joint/Adaption Set	R&S®RD008Z1	0720.6400.02
Control Unit	R&S®GB130	4059.8755.02
Set of Cables (connecting R&S®GB130 to R&S®RD130, lengths: 50/80/120/200 m)	R&S®GK130	4059.8855.0x (x = 2/3/4/5)
Other configurations on request.		

