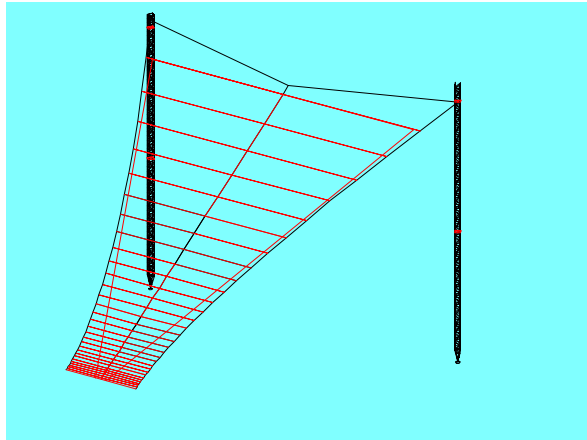


# Log Periodic Dipole Antenna HL410A3



## Brief description

The Log-Periodic Dipole Antenna HL410A3 receives horizontal polarized waves and enables the detection of very weak signals. The vertical diagrams have been optimized according to the propagation characteristics of the ionosphere. This allows with the antenna's wide frequency range of 1.5 to 30 MHz reception of short medium and world-wide distances.

For the additional reception of vertical polarized signals a combination with the vertical polarized Log-Periodic Antenna HL210A3 is possible.

Due to the half-power beam width of 70° of one single antenna the star shaped arrangement of additional antennas leads cost-efficiently to an antenna system for round reception.

- Detects even very weak signals
- No dead zone
- Extremely large frequency range
- Smallest dimensions for 1.5 to 30 MHz
- Low maintenance necessary

## Specifications

Frequency range	1.5 to 30 MHz
Polarization	horizontal
Nominal impedance	50 Ω
VSWR	
1.5 to 2 MHz	< 6
2 to 30 MHz	< 2.5 (typ. < 2)
Directivity	
1.5 MHz	7.5 dB
1.6 to 30 MHz	8 to 12 dB
Efficiency	>90 %
Connector	N female
Max. wind speed	
(without ice deposit)	
survival	170 km/h
acc. to DIN 4131	145 km/h
(with ice deposit)	
acc. to DIN 4131	135 km/h
MTBF	≥ 100.000 h
Dimensions	
Length of antenna plane	approx. 94 m
Width of antenna plane	approx. 88 m
Height of mast	approx. 66 m