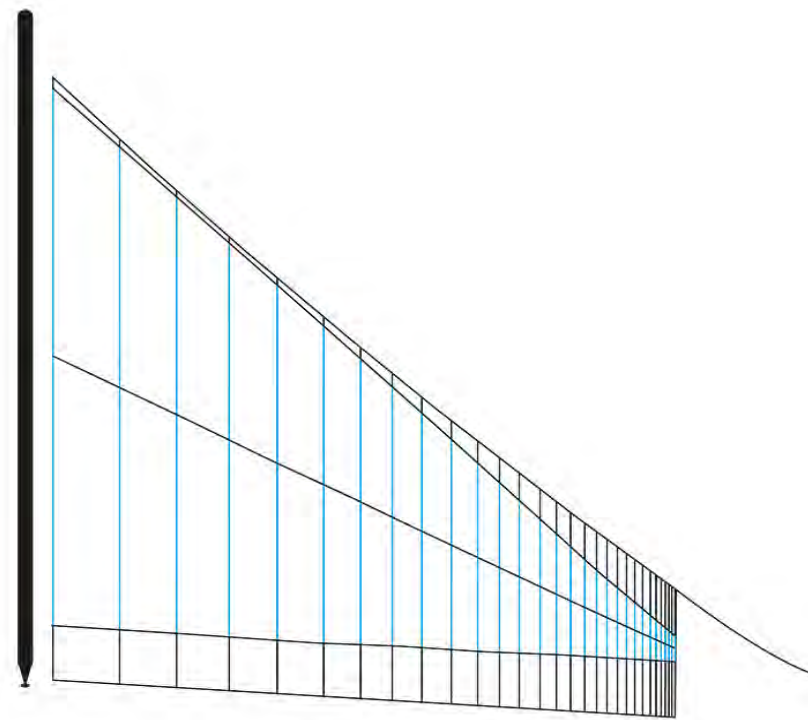


Логопериодическая антенна HL210A3



Диапазон 1.5 - 30 МГц

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Россия (495)268-04-70

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Казахстан (772)734-952-31

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

R&S®HL210A3 LOG-PERIODIC HF ANTENNA

1.5 MHz to 30 MHz

For high-sensitivity radiomonitoring through reception of ground waves and vertically polarized skywaves



The R&S®HL210A3 log-periodic HF antenna is suitable for the reception of ground waves and vertically polarized skywaves and allows even very weak signals to be detected.

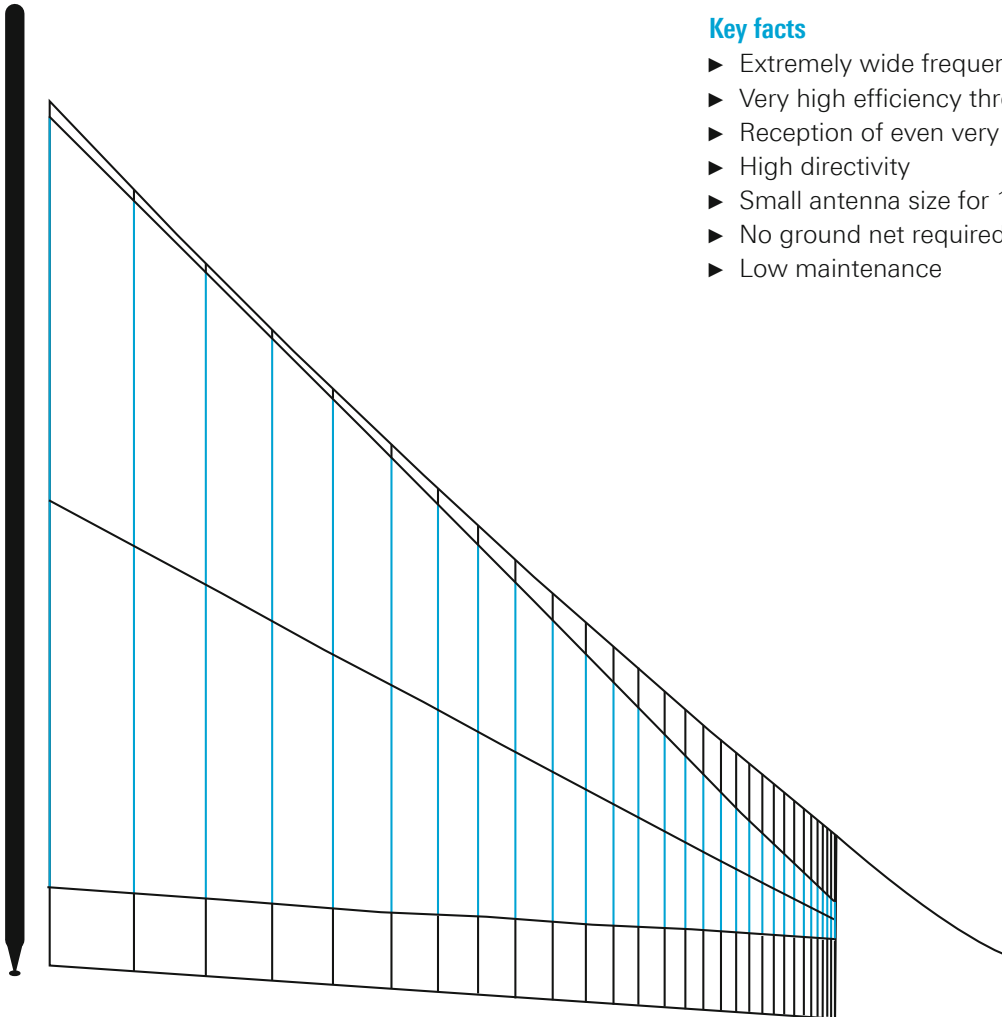
According to the physical characteristics of vertically polarized waves, maximum sensitivity is obtained at low and medium elevation angles. The radiation pattern of the R&S®HL210A3 is optimally suited for this purpose. The azimuth range of the R&S®HL210A3 of about 120° can be enhanced up to 360° by adding two further antennas.

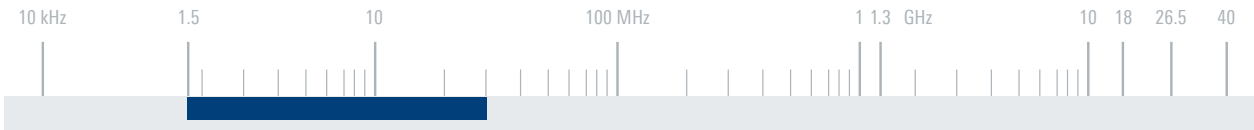
The antenna can be adapted to customer requirements regarding frequency range, environmental data and size.

For additional reception of horizontally polarized waves and high-angle radiation (predominantly horizontally polarized), the antenna can be combined with the R&S®HL410A3 log-periodic HF antenna.

Key facts

- ▶ Extremely wide frequency range
- ▶ Very high efficiency through dipole structure
- ▶ Reception of even very weak signals
- ▶ High directivity
- ▶ Small antenna size for 1.5 MHz to 30 MHz range
- ▶ No ground net required
- ▶ Low maintenance

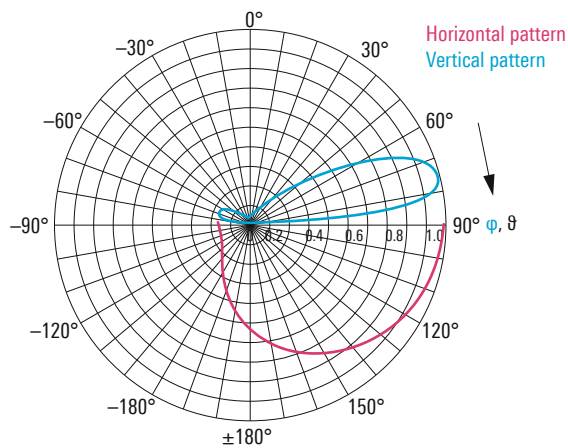




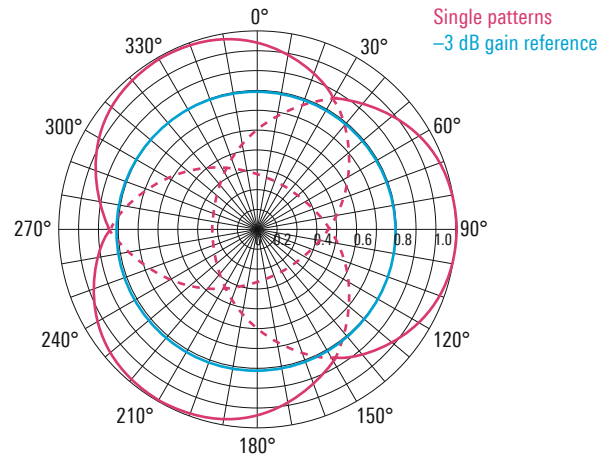
Specifications (exemplary data only)

Frequency range	1.5 MHz to 30 MHz	
Polarization	linear/vertical	
Input impedance	50 Ω	
VSWR	1.5 MHz to 2 MHz	< 6
	2 MHz to 30 MHz	< 2.5; typ. < 2.0
Directivity	1.5 MHz to 2 MHz	8 dBi to 10.5 dBi
	2 MHz to 30 MHz	10.5 dBi to 12 dBi
Efficiency	> 90%	
Connector	N female	
MTBF	≥ 100000 h	
Operating temperature range	-40°C to +70°C	
Max. wind speed	survival	225 km/h
	with ice deposit	135 km/h
	operational	130 km/h
Permissible ice deposit	20 mm radial	on wires with diameter > 7 mm
	2 × diameter	on wires with diameter < 7 mm
Dimensions	length of antenna array	approx. 97 m (318 ft)
	height of supporting mast	approx. 90 m (295 ft)

Typical vertical and horizontal radiation patterns (only half of the horizontal radiation pattern displayed)



Typical horizontal reception characteristic of a system with three R&S®HL210A3



Ordering information	Type	Order No.
Log-periodic HF antenna	R&S®HL210A3	on request



Архангельск (8182)63-90-72	Ижевск (3412)26-03-58	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
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Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
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Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93
Иваново (4932)77-34-06				
	Киргизия (996)312-96-26-47	Россия (495)268-04-70	Казахстан (772)734-952-31	

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