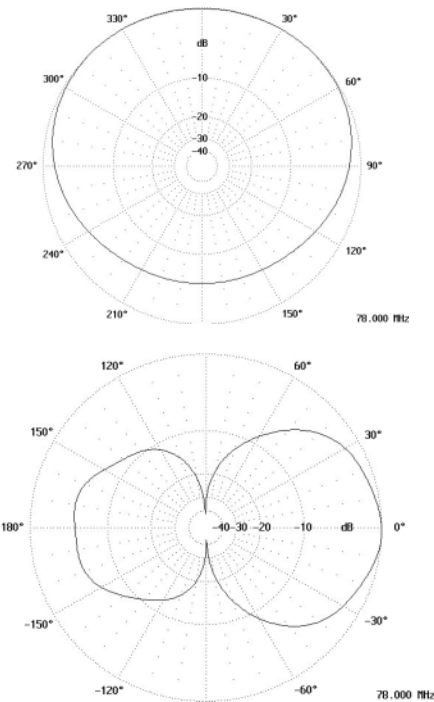
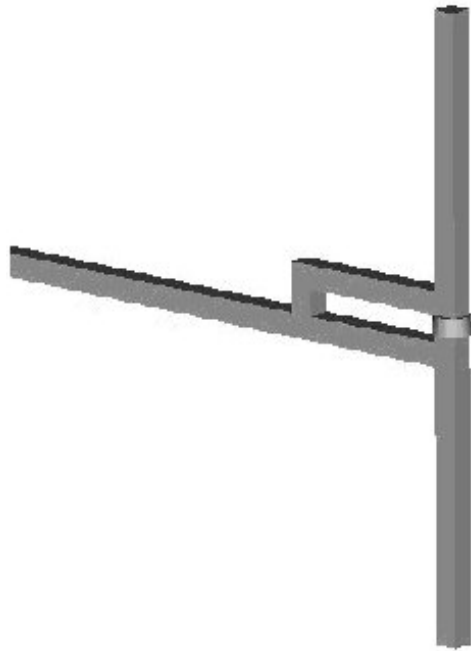


LOW GAIN BASE STATION ANTENNA AV1312-1A



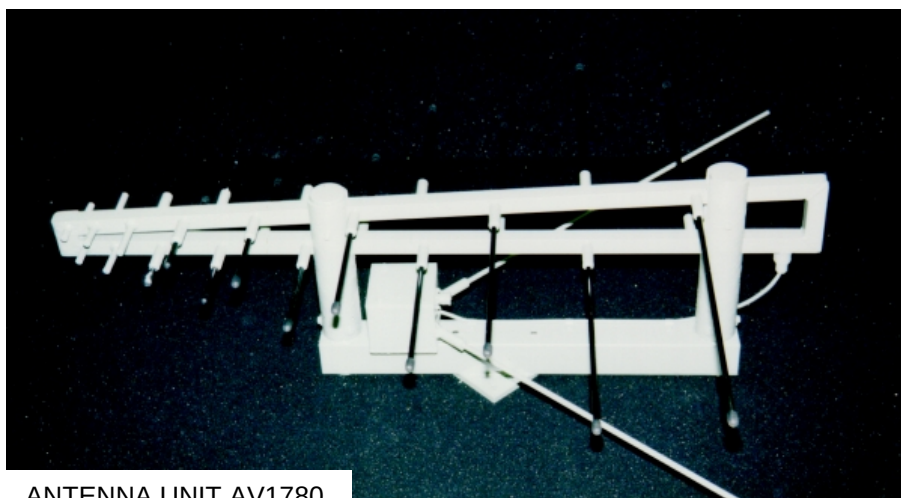
Type	AV1312-1A
Frequency	118...144 MHz
Bandwidth	26 MHz
Impedance	50 Ω DC grounded
VSWR	1,5 max/depending on mounting
Polarisation	Vertical
Gain	2 dBi
E-plane 3 dB beamwidth	70°
H-plane 3 dB beamwidth	200°/depending on mounting
Electrical downtilt	None
Front to back ratio	6 dB/depending on mounting
Max. Continuous power	0,5 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,04 m ²
Dimensions (H x W x D) (Ø x H)	1150 x 70 x 1150 mm
Weight	4 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glass reinforced PE
Options	-

DUAL BAND DIPOLE AV1319



Type	AV1319
Frequency	-160/390: 155-165 / 380-400 MHz -160/450: 160-174 / 440-460 MHz
Bandwidth	-160/390: 10 / 20 MHz -160/450: 14 / 20 MHz
Impedance	50 Ω DC grounded
VSWR	1,5 max
Polarisation	Vertical
Gain	2,1 / 4 dBi
E-plane 3 dB beamwidth	80 / 45°
H-plane 3 dB beamwidth	200°/depending on mounting
Electrical downtilt	None
Front to back ratio	3 dB/depending on mounting
Max. Continuous power	0,5 kW
RF-connector	N female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,2 m ²
Dimensions (H x W x D) ($\varnothing$ x H)	810 x 1050 x 160 mm
Weight	6 kg
Mounting diameter	$\varnothing$ 30...115 mm pipe
Materials	Aluminium Glassfiber radome
Options	Connector type Other frequency range combinations

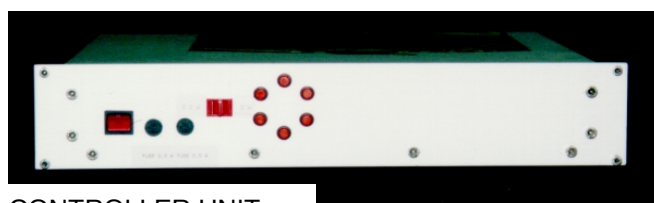
AV1780 ROTATABLE DIRECTIONAL MARINE ANTENNA SYSTEM



ANTENNA UNIT AV1780



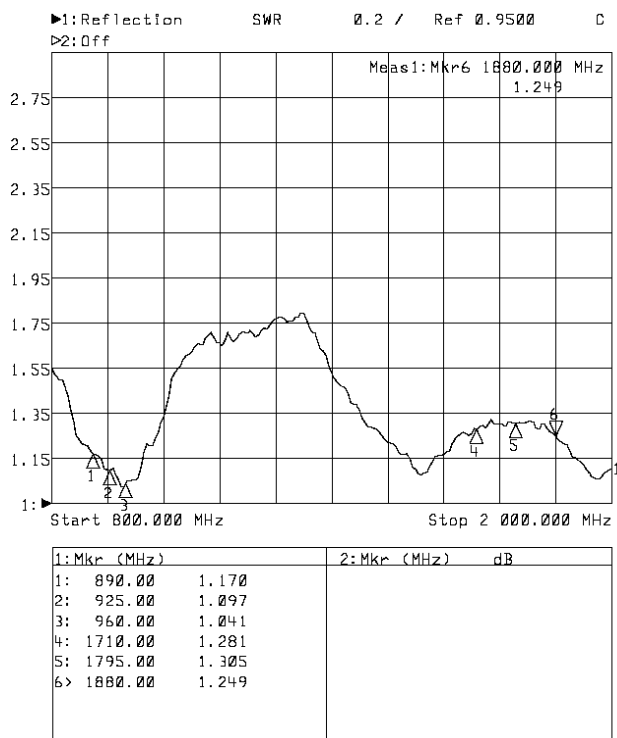
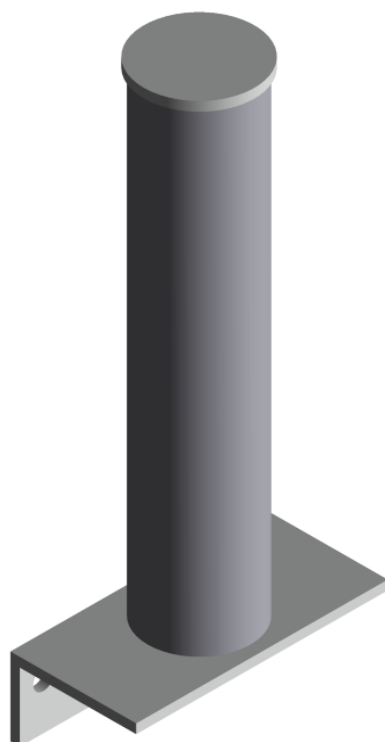
MOTORISED PEDESTAL



CONTROLLER UNIT

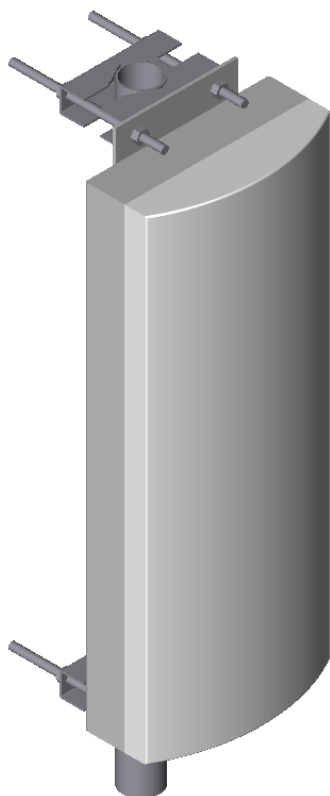
Type	AV1780
Frequency	88...108 MHz (V-dipole) 175...800 MHz (LPDA)
Bandwidth	20 MHz / 625 MHz
Impedance	50 Ω DC grounded
VSWR	2,5 max
Polarisation	Horisontal
Gain	0 dBi (88...108 MHz) 7 dBi (175...800 MHz)
E-plane 3 dB beamwidth	Dependent on frequency
H-plane 3 dB beamwidth	Dependent on frequency
Electrical downtilt	None
Front to back ratio	15 dB (175...800 MHz)
Max. Continuous power	0,5 kW
RF-connector	N female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,50 m ² with pedestal 0,15 m ² antenna only
Dimensions (HxWxD)	510x891x1345 mm
Weight	8 kg
Materials	Aluminium Carbon fiber Glass reinforced PE
AC Power	3 phase 220 V
Options	Motorised pedestal 19" controller unit

DUAL BAND ANTENNA AV1950



Type	AV1950
Frequency	870...960 MHz 1710...2170 MHz
Bandwidth	90/460 MHz
Impedance	50 Ω
VSWR	1,5 typical
Polarisation	Vertical
Gain	3 dbi
E-plane 3 dB beamwidth	70°
H-plane 3 dB beamwidth	360°
Electrical downtilt	None
Front to back ratio	- dB
Max. Continuous power	0,5 kW
RF-connector	N female or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,2 m ²
Dimensions (H x W x D, Ø)	360 x 160 x 80 mm, 60 mm
Weight	2,5 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glassfiber radome Glass reinforced PE Brass dipole element
Options	Colour

REINFORCED WUCS-BASESTATION ANTENNA AV2062-S



S = "Reinforced"

The antenna construction includes 3 mm thick aluminium framework, power divider and the radiating elements shielded with an UV-resistant fibreglass radome. The extra-strong glass fiber radome does not react on matching so the antenna maintains it's SWR performance even if covered by heavy snow and ice.

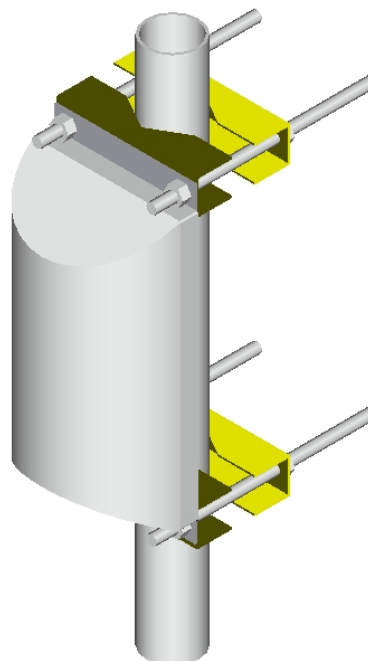
The low intermodulation values are secured by qualitative connections and precise manufacturing.

The standard inclusive (unless agreed otherwise) mounting kit provides easy installation for the tube diameters from 30 mm to 115 mm.

The durability and high performance of the AV206 series provides you a real corner-stone for your cellular network in any conditions.

Type	AV2062-S
Frequency	800...1000 MHz
Bandwidth	200 MHz
Impedance	50 Ω DC grounded
VSWR	1,5 max
Polarisation	Vertical
Gain	13 dBi
E-plane 3 dB beamwidth	30°
H-plane 3 dB beamwidth	62°
Electrical downtilt	None
Front to back ratio	25 dB
Max. Continuous power	0,5 kW
RF-connector	7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,2 m ²
Dimensions (H x W x D) (Ø x H)	655/725 x 300 x 140 mm
Weight	4,8 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glassfiber radome Glass reinforced PE
Options	Colour

REINFORCED WUCS-BASESTATION ANTENNA AV2091-S



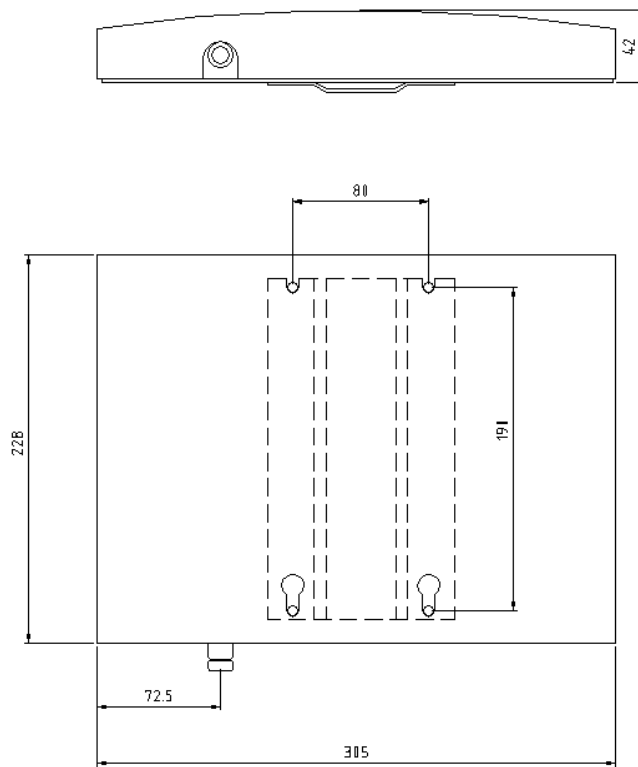
The antenna in the picture is attached to a Ø60 mm pipe with a mounting kit included in package.

Type	AV2091-S
Frequency	800...1000 MHz
Bandwidth	200 MHz
Impedance	50 Ω DC grounded
VSWR	1,5 max
Polarisation	Vertical
Gain	9 dbi
E-plane 3 dB beamwidth	56°
H-plane 3 dB beamwidth	115°
Electrical downtilt	None
Front to back ratio	20 dB
Max. Continuous power	0,5 kW
RF-connector	7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,05 m ²
Dimensions (H x W x D) (Ø x H)	265/335 x 160 x 115 mm
Weight	1,4 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glassfiber radome Glass reinforced PE
Options	Colour

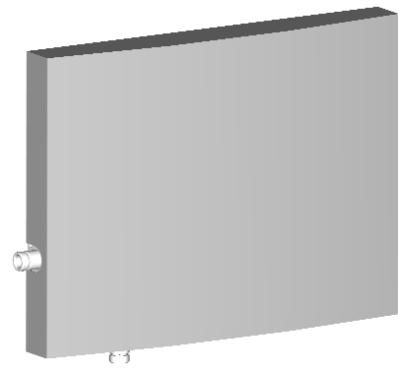
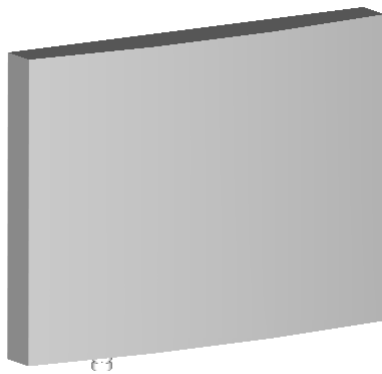
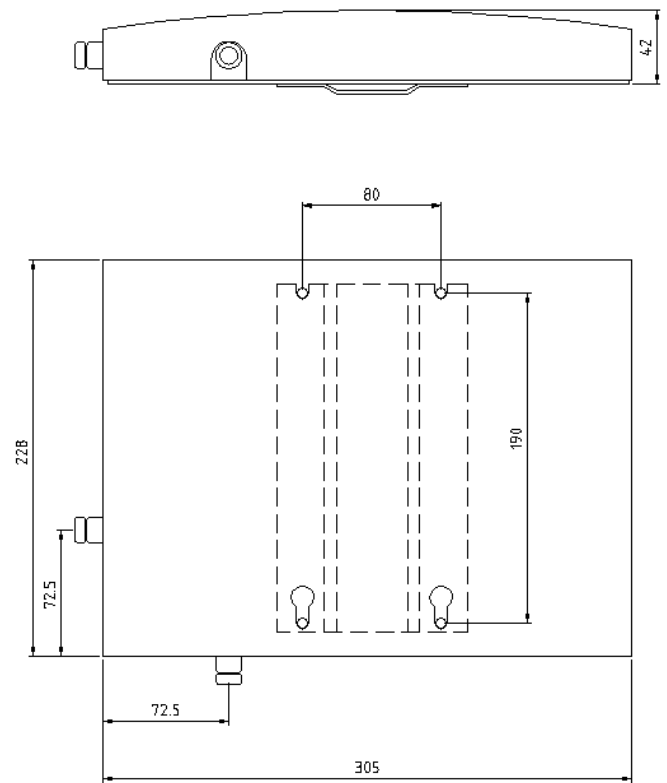
AV21-SERIES

Type	AV2100-SP	AV2100-CP	AV2100-DP
Frequency	850...870 MHz	850...870 MHz	850...870 MHz
Bandwidth	20 MHz	20 MHz	20 MHz
Impedance	50 Ω DC grounded	50 Ω DC grounded	50 Ω DC grounded
VSWR	2,0 max.	2,0 max.	2,0 max.
Polarisation	Linear	Left hand Circular	Dual linear
Isolation	-	-	25 dB min.
Gain	7,5 dBi	7,5 dBi	7,5 dBi
Horizontal 3 dB beamwidth	90°	90°	90°
Vertical 3 dB beamwidth	70°	70°	70°
Electrical downtilt	None	None	None
Front to back ratio	20 dB	20 dB	20 dB
Max. Continuous power	0,25 kW	0,25 kW	0,25 kW
RF-connector	N female	N female	2 x N female
Operational windspeed	40 m/s (default)	40 m/s (default)	40 m/s (default)
Survival windspeed	55 m/s (default)	55 m/s (default)	55 m/s (default)
Wind area	0,07 m ²	0,07 m ²	0,07 m ²
Dimensions (H x W x D)	228 x 305 x 42 mm	228 x 305 x 42 mm	228 x 305 x 42 mm
Weight	0,5 kg	0,5 kg	0,5 kg
Mounting diameter	4xM6 threads symmetrically on a 80x190 mm rectangle behind the antenna.	4xM6 threads symmetrically on a 80x190 mm rectangle behind the antenna.	4xM6 threads symmetrically on a 80x190 mm rectangle behind the antenna.
Materials	Aluminium Glassfiber radome Glass reinforced PE	Aluminium Glassfiber radome Glass reinforced PE	Aluminium Glassfiber radome Glass reinforced PE
Options	-	-	-

AV2100-SP AND AV2100-CP



AV2100-DP



The AV21-series offer an affordable selection of three antennas all with same external dimensions and mounting method. The AV2100-SP and AV2100-CP are equipped with single and AV2100-DP with two N-female panel connectors.

REINFORCED GSM900 BASESTATION ANTENNA AV2124-925F73



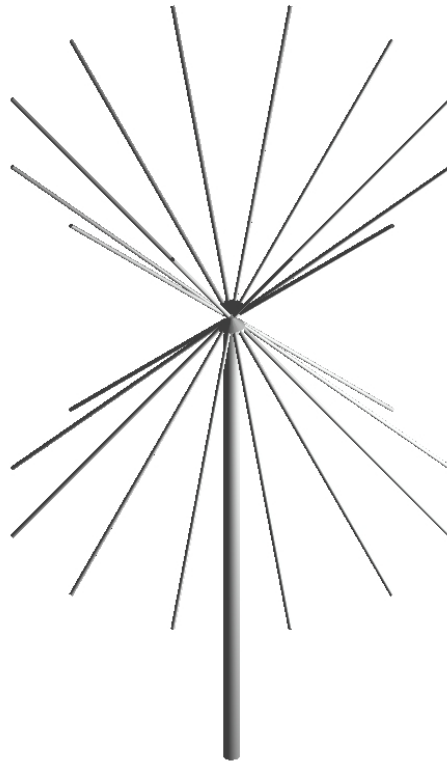
The AV2124-925F73 antenna construction includes thick (s=3mm) aluminium framework, power divider and the radiating elements shielded with a heavy duty UV-resistant fibreglass radome (s=3mm). The radome does not react on matching so the antenna maintains it's SWR performance even if covered by heavy snow and ice.

The low intermodulation values are secured by qualitative connections and precise manufacturing.

The standard inclusive heavy duty (unless agreed otherwise) mounting kit provides easy installation for the tube diameters from 30 mm to 115 mm. There is also a heavy duty tilt mounting kit available.

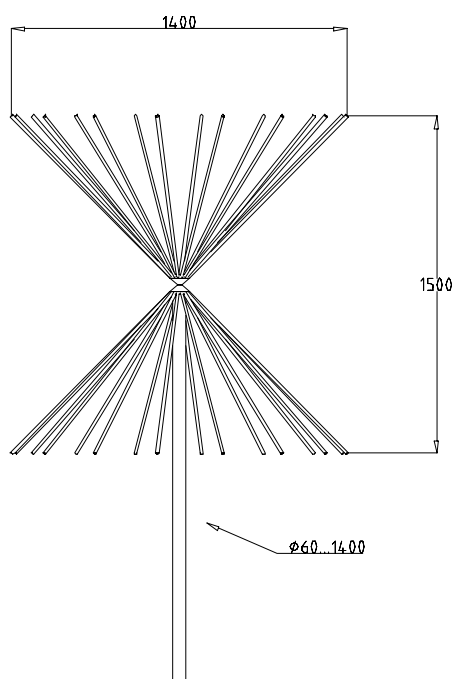
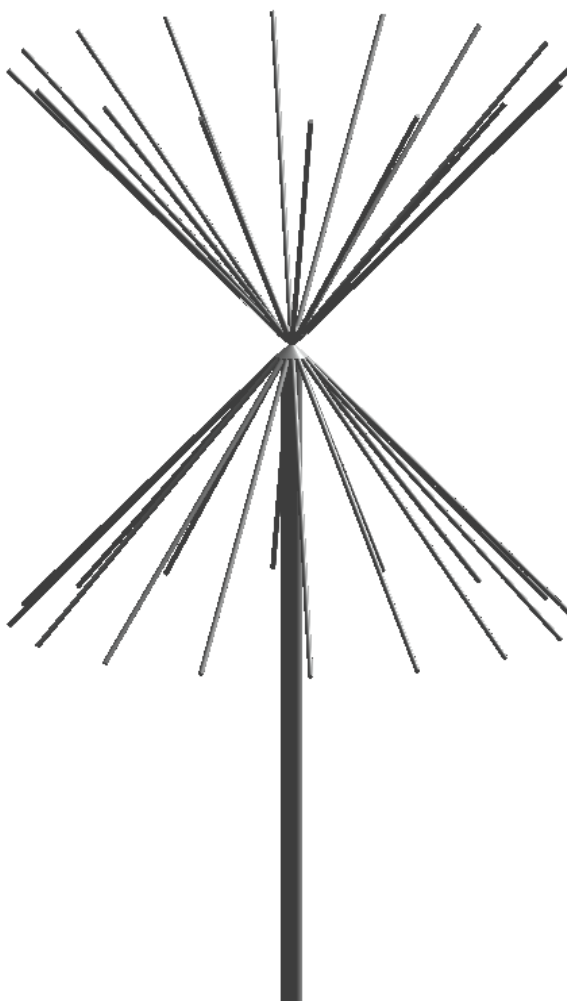
Type	AV2124-925F73
Frequency	890...960 MHz
Bandwidth	70 MHz
Impedance	50 Ω DC grounded
VSWR	1,3 max
Polarisation	Vertical
Gain	12,5 dBi
E-plane 3 dB beamwidth	15°
H-plane 3 dB beamwidth	120°
Electrical downtilt	None
Front to back ratio	20 dB
Max. Continuous power	0,5 kW
RF-connector	7/16 female
Operational windspeed	70 m/s
Survival windspeed	90 m/s
Wind area	0,25 m ²
Dimensions (H x W x D) (Ø x H)	1140 x160 x110 mm
Weight	1)Antenna 4,0 kg 2)Heavy duty mounting kit 4,0 kg 3)Heavy duty tilt mounting kit 8,0 kg (Includes pos. 2)
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium (frame s=3 mm) Glassfiber radome (s=3mm), UV-resistant Glass reinforced PE, UV-resistant
Options	-

BROAD BAND DIPOLE D0113



Type	D0113
Frequency	100 MHz...1300 MHz
Bandwidth	1200 MHz
Impedance	50 Ω
VSWR	2,5 max
Polarisation	Vertical
Gain	2 dbi
E-plane 3 dB beamwidth	50°...80°
H-plane 3 dB beamwidth	- °
Electrical downtilt	None
Front to back ratio	- dB
Max. Continuous power	0,5 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,23 m ²
Dimensions (H x W x D) (Ø x H)	1930 x 1060 x 1060
Weight	5,0 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glassfiber
Options	Size dipoles detached HxWxD 1400 x 100 x 100

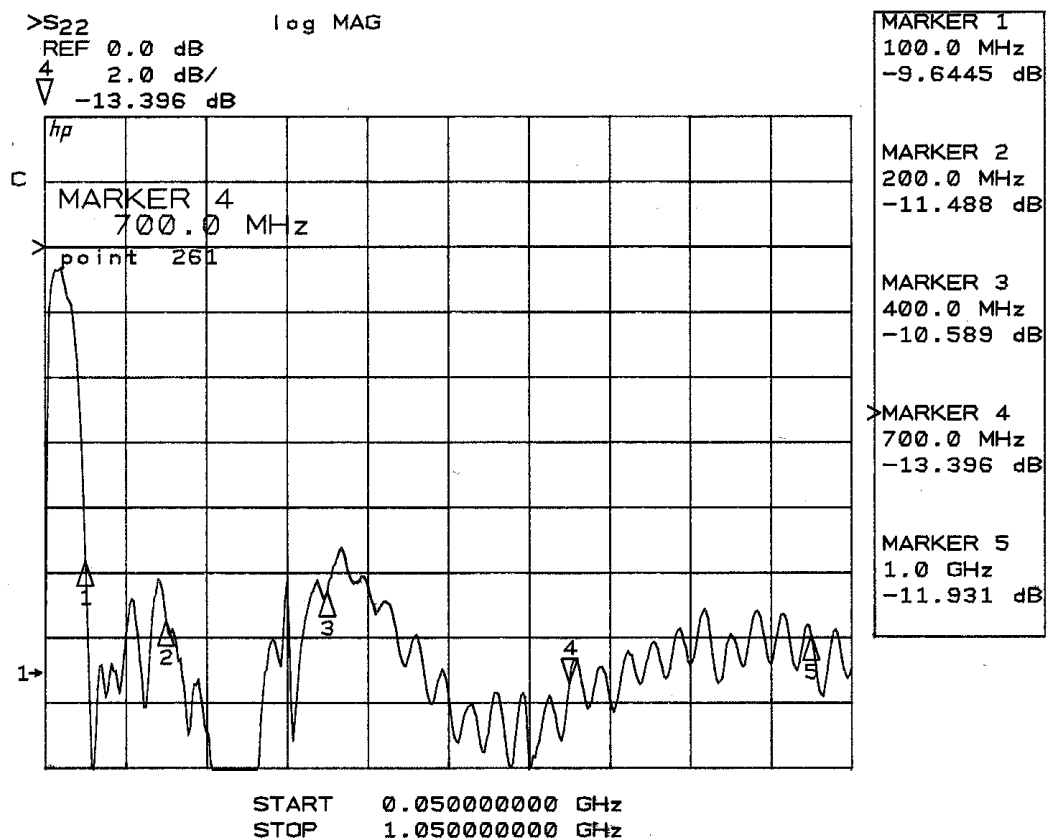
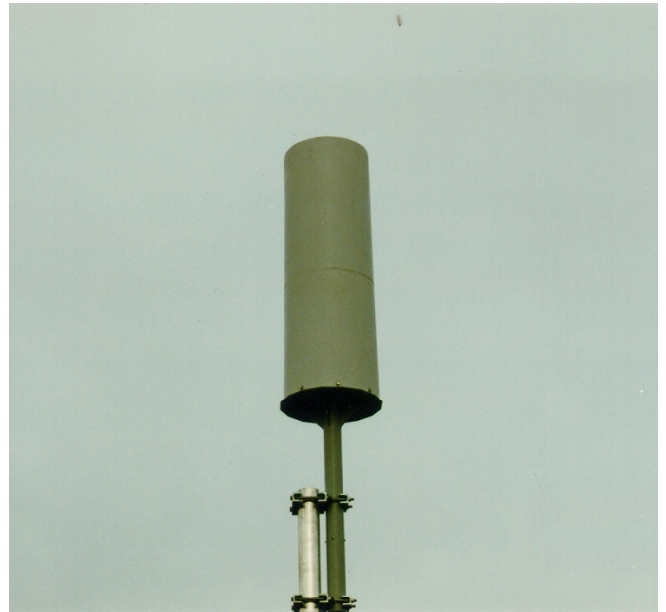
BROAD BAND DIPOLE D0750



Type	D0750
Frequency	70...500 MHz
Bandwidth	430 MHz
Impedance	50 Ω
VSWR	2,0 typical
Polarisation	Vertical
Gain	2 dBi
E-plane 3 dB beamwidth	70°
H-plane 3 dB beamwidth	-
Electrical downtilt	None
Front to back ratio	-
Max. Continuous power	0,4 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,4 m ²
Dimensions (HxWxD)	See picture
Weight	8 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glass reinforced PE
Options	-

BICONICAL ANTENNA D100-1000

Type	D100/1000
Frequency	100...1000 MHz
Bandwidth	900 MHz
Impedance	50 Ω DC grounded
VSWR	2,0 max
Polarisation	Vertical
Gain	2 dBi
E-plane 3 dB beamwidth	70°
H-plane 3 dB beamwidth	-
Electrical downtilt	None
Front to back ratio	-
Max. Continuous power	0,5 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,45 m ²
Dimensions (ØxH)	Ø400/60 mmx2100 mm
Weight	17 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glassfiber radome Glass reinforced PE Hot dip galvanised steel
Options	Available with both aluminium and steel pedestal

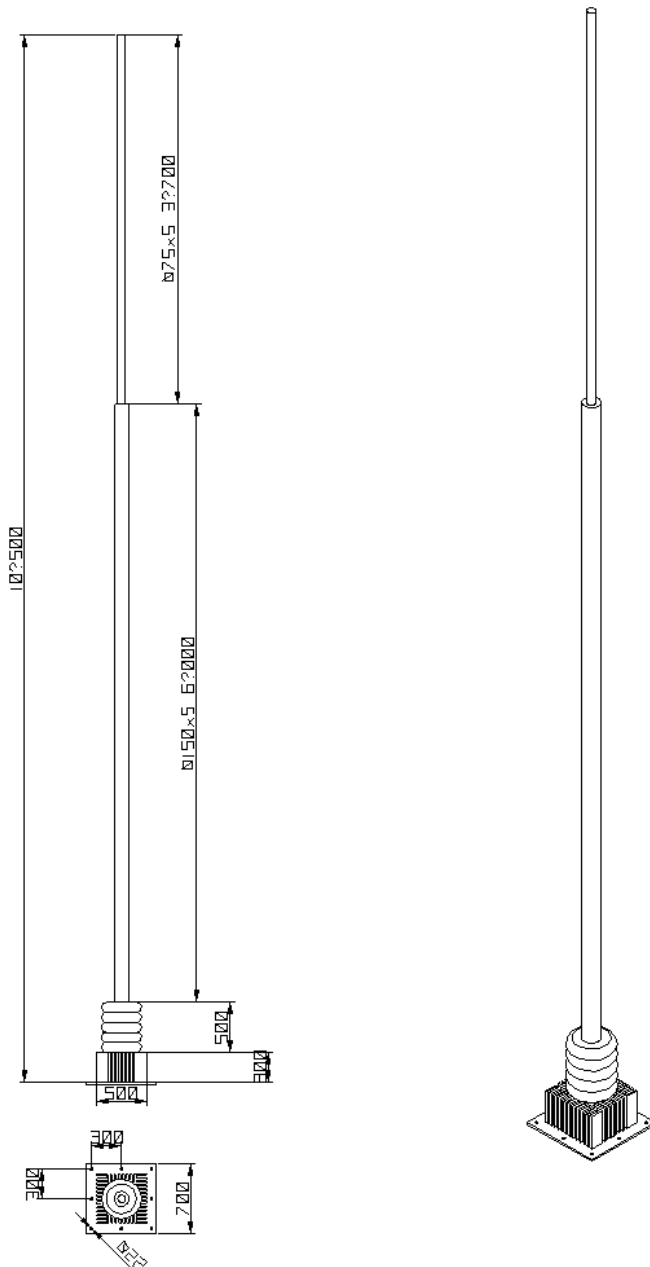


BICONICAL ANTENNA D100-400



Type	D100-400
Frequency	100...400 MHz
Bandwidth	300 MHz
Impedance	50 Ω DC grounded
VSWR	2,0 max
Polarisation	Vertical
Gain	2 dBi
E-plane 3 dB beamwidth	70°
H-plane 3 dB beamwidth	-
Electrical downtilt	None
Front to back ratio	-
Max. Continuous power	0,5 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,65 m ²
Dimensions (H x W x D) (Ø x H)	Ø400/Ø60 x 2100 mm
Weight	17 kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Aluminium Glassfiber radome Glass reinforced PE Hot dip galvanised steel
Options	Mounting tube length 900 mm

HFD3-28 SHIP ANTENNA



HFD3-28 main mechanical dimensions

Type	HFD3-28
Frequency	3...28 MHz
Bandwidth	25 MHz
Impedance	50 Ω DC grounded
VSWR	3,5 max
Polarisation	Vertical
Gain (theoretical)	4,5...8 dBi
Efficiency	15% at 3 MHz 95% at 6...24 MHz 60% at 28 MHz
RF-connector	EIA 7/8"
Survival windspeed	62,5 m/s (default)
Wind area	1,5 m ²
Dimensions (HxWxD)	10500x150x150 mm
Weight	100 kg
Mounting diameter	Customer specified
Materials	Aluminium mast Glassfiber baseinsulator
Options	RF-connector Mounting flange dimensions

HFD3-28 is a passive HF-dipole with tuning circuit consisting of resistive and reactive elements to enable broadband tuning. The theoretical gain of this antenna is 4,5...8 dBi, but due to these tuning elements 75...5% of this gain is lost.

AV1370 OMNIDIRECTIONAL VHF ANTENNA

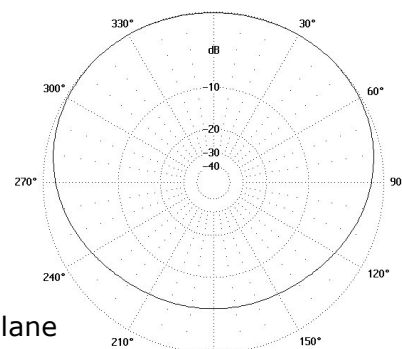


General information

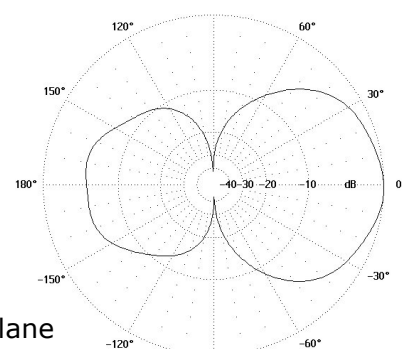
AV1370 is a lightweight omnidirectional VHF antenna for frequency range of 120-180 MHz. There are two models for different frequencies as shown in the data table. Other frequencies are available as an option on request.

The installation of the antenna is made handy with finger screws. The antenna is designed to be installed to the top or side of a Ø38 mm pipe.

Type	AV1370
Frequency range	Within 120...180 MHz 138...150 MHz (AV1370-1) 150...174 MHz (AV1370-2)
Bandwidth	± 7 %
Impedance	50 Ω DC grounded
VSWR	2,0 max
Polarisation	Vertical
Gain	4 dBi, dependent on mounting
E-plane 3 dB beamwidth	70°
H-plane 3 dB beamwidth	200°, dependent on mounting
Electrical downtilt	None
Front to back ratio	6 dB, dependent on mounting
Max. Continuous power	50 W
RF-connector	BNC male
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Operating temperature	-40 +55 °C
Wind area	0,05 m ²
Dimensions (H x W x D)	100 x 65 x 525 mm
Weight	0,6 kg
Mounting diameter	Ø 38 mm pipe
Materials	Anodized Aluminium Stainless steel Glass reinforced PE
Colour	Black
Options	Connector type Frequency

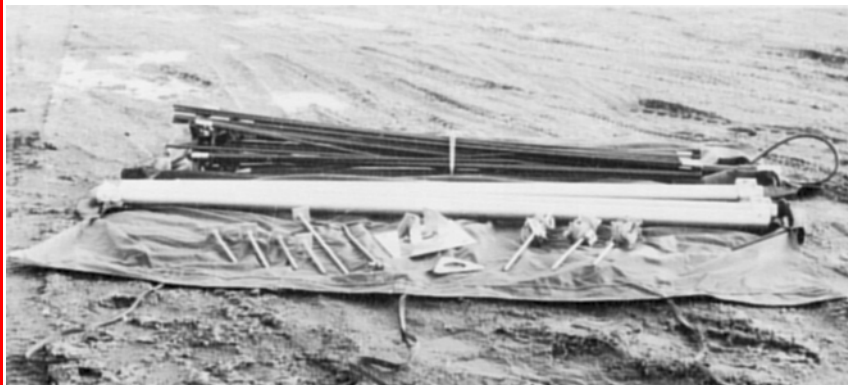


H-plane

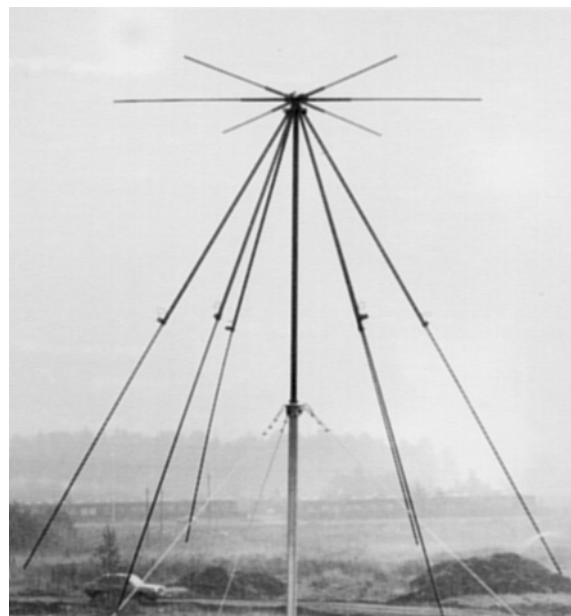


E-plane

FIELD ANTENNA D30-90-1

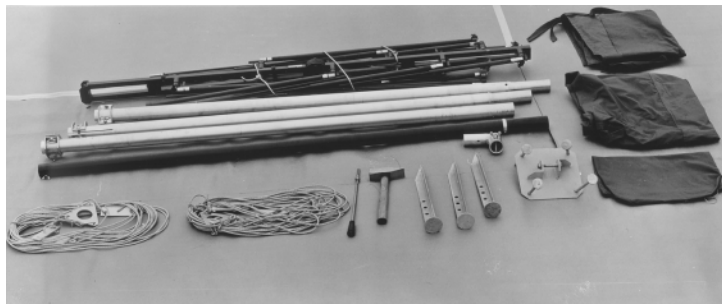


D30-90-1 before and after installation.

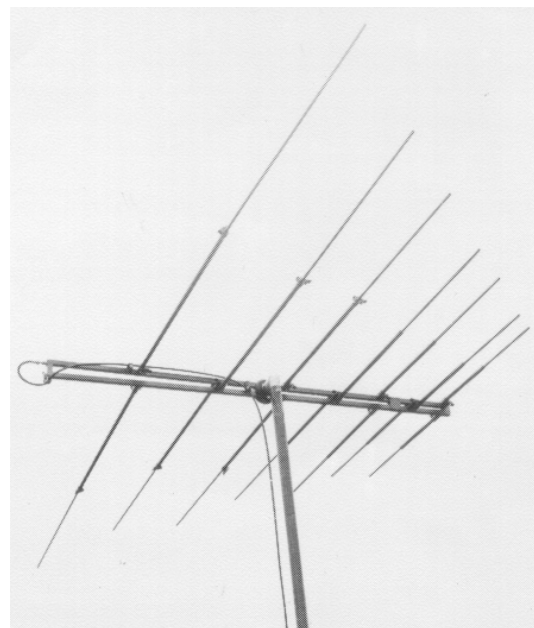


Type	D30-90-1
Frequency	30...90 MHz
Bandwidth	60 MHz
Impedance	50 Ω
VSWR	2,0 typical
Polarisation	Vertical
Gain	2...3 dBi
E-plane 3 dB beamwidth	70...90°
H-plane 3 dB beamwidth	Omnidirectional
Electrical downtilt	None
Front to back ratio	-
Max. Continuous power	0,5 kW
RF-connector	N or UHF female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,5 m ²
Dimensions (H x W x D) ($\varnothing$ x H)	2200 x 2360 x 2360 mm (in use) 2300 x 150 mm (in transport)
Weight	12 kg
Mounting diameter	$\varnothing$ 60 mm pipe (mast PM6/60)
Materials	Aluminium Glassfiber radome Glass reinforced PC
Options	Includes an aluminum mast PM6/60 (h=6 m and D=60mm) with accessories.

LOG-PERIODIC DIPOLE ARRAY LPD30-90-1

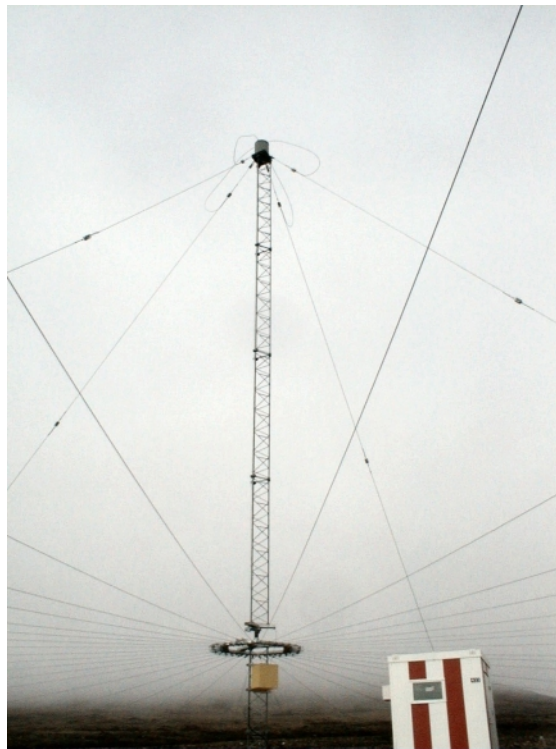


LPD30-90-1 before and after installation.



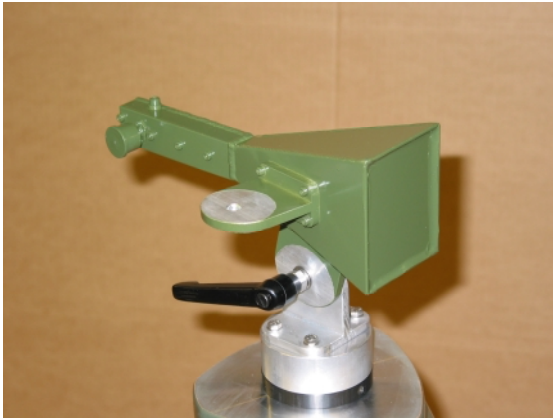
Type	LPD30-90-1
Frequency	30...90 MHz
Bandwidth	60 MHz
Impedance	50 Ω DC grounded
VSWR	2,0 max
Polarisation	Horizontal or Vertical
Gain	3...6 dBi
E-plane 3 dB beamwidth	65°...60° dB dependent on frequency
H-plane 3 dB beamwidth	115°...75° dB dependent on frequency
Electrical downtilt	None
Front to back ratio	15 dB...25 dB dependent on frequency
Max. Continuous power	0,5 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,5 m ²
Dimensions (HxWxD)	100x5300x2380 mm
Weight	13 kg
Mounting diameter	Ø 60 mm pipe (mast PM6/60)
Materials	Aluminium Glass reinforced PE
Options	Includes an aluminum mast PM6/60 (h=6 m and D=60mm) with accessories. Also available with carbon fiber elements.

NDB-ANTENNA AV1110-24



Type	AV1110-24
Frequency	0,2...2,0 MHz
Bandwidth	1,8 MHz
Impedance	Low resistance in series with capacitance.
Polarisation	Vertical
Gain	Depending on frequency.
E-plane 3 dB beamwidth	Depending on frequency.
H-plane 3 dB beamwidth	360°
Electrical downtilt	-
Front to back ratio	-
Max. Continuous power	10 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	Wind analysis and details can be provided separately.
Dimensions (H x W x D) (Ø x H)	24 x 420 x 420 mm
Weight	XX kg
Mounting diameter	Ø 30...115 mm pipe
Materials	Hot dip galvanised steel Glassfiber radome
Options	Different frequency ranges, power rating and windspeed specifications. Top coil Ground net Transformer for 50 Ω Please ask an offer with your specifications.

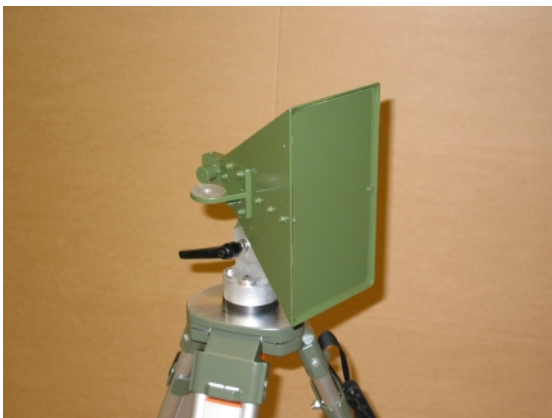
WIDE BAND HORN ANTENNAS



Aerial Oy wide band horn antennas are especially designed for EMC-measurements, wide band spectrum studies and electromagnetic/RF interference measurements.

The products listed here represent only a part of the available models. We have several different types covering standard waveguide band, horns with double ridge waveguide feed and also with the double ridge extending all the way to the aperture.

Please contact Aerial Oy sales to receive more information on this product group and as always with our products all details can be modified to meet the needs of the customer.



Type	AU10/1-10	AU20/2-4	AU20/4-8
Frequency	1...10 GHz	2...4 GHz	4...8 GHz
Bandwidth	9 GHz	2 GHz	4 GHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	3 typical	3 typical	3 typical
Polarisation	Vertical or horizontal	Vertical or horizontal	Vertical or horizontal
Gain	10 dBi 1)	20 dBi 1)	20 dBi 1)
E-plane 3 dB beamwidth	60° 1)	20° 1)	20° 1)
H-plane 3 dB beamwidth	60° 1)	20° 1)	20° 1)
Electrical downtilt	None	None	None
Front to back ratio	20 dB	20 dB	20 dB
Max. Continuous power	2)	2)	2)
RF-connector	N female or SMA-female	N female or SMA-female	N female or SMA-female
Operational windspeed	40 m/s (default)	40 m/s (default)	40 m/s (default)
Survival windspeed	55 m/s (default)	55 m/s (default)	55 m/s (default)
Wind area	m ²	m ²	m ²
Dimensions (H x W x D)	175x235x450 mm	340x460x600 mm	170x230x430 mm
Weight	4 kg	5 kg	4 kg
Mounting diameter	3)	3)	3)
Materials	Aluminium Glassfiber radome	Aluminium Glassfiber radome	Aluminium Glassfiber radome
Options	Colour	Colour	Colour

Type	AU20/8-18	AU20/2-18	AU10/0,45-2,2
Frequency	8...18 GHz	2...18GHz	0,45...2,2 GHz
Bandwidth	10 GHz	16 GHz	1,75 GHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	3 typical	3 typical	3 typical
Polarisation	Vertical or horizontal	Vertical or horizontal	Vertical or horizontal
Gain	20 dBi 1)	20 dBi 1)	10 dBi 1)
E-plane 3 dB beamwidth	20° 1)	20° 1)	60° 1)
H-plane 3 dB beamwidth	20° 1)	20° 1)	60° 1)
Electrical downtilt	None	None	None
Front to back ratio	20 dB	20 dB	20 dB
Max. Continuous power	2)	2)	2)
RF-connector	N female or SMA-female	N female or SMA-female	N female or SMA-female
Operational windspeed	40 m/s (default)	40 m/s (default)	40 m/s (default)
Survival windspeed	55 m/s (default)	55 m/s (default)	55 m/s (default)
Wind area	M ²	m ²	m ²
Dimensions (H x W x D, Ø)	70x88x240 mm	140x200x350 mm	360 x 500 x 550 mm
Weight	1 kg	4 kg	6 kg
Mounting diameter	3)	3)	3)
Materials	Aluminium Glassfiber radome	Aluminium Glassfiber radome	Aluminium Glassfiber radome
Options	Colour	Colour	Colour

- 1) Antenna gain and radiation pattern widths values atated are at midband.
- 2) Maximum continuous power is limited by the connector.
- 3) Mounting method is always customer specified. Standard methods are: A: mounting from the back of the horn to a mounting tube with diameter between 30...115 mm. B: a handle which is attached to the center of gravity. C: mounting from the center of gravity to a tripod.



Box 22
04401 Järvenpää
Finland

Tel. +358 9 2790 120
Fax +358 9 2910 210

<http://www.aerial.fi>
aerial@aerial.fi

WAVEGUIDE COMPONENTS R100 (WR90)

Aerial Oy stocks various standard high precision waveguides and waveguide flanges in aluminium, brass and copper. The waveguides can be bent or twisted according to customer specifications. Normally after machining the waveguides are silver plated (Copper and copper) or chromated (aluminium) and painted. All the waveguide components are tested after manufacturing.

Please ask for a quote with your specifications.



Above is a special aluminium waveguide with one H-plane and one E-plane bend and a 90 degree twist. The flanges are PBR-type.

Type	WAVEGUIDE COMPONENTS R100 (WR90)
Frequency	8,20...12,4 GHz
Bandwidth	4,2 GHz
Impedance	50 Ω
VSWR	1,15 Typical, 1,2 typical for adapters.
Attenuation (Theoretical)	18,2...12,6 dB/100 m Aluminium 21,1...14,6 dB/100 m Brass 14,0...9,7 dB/100 m Copper
Max. Continuous power (Theoretical)	0,96...1,39 kW Aluminium 0,862...1,25 kW Brass 1,22...1,77 kW Copper
Flanges/connectors	UBR, UDR, PDR and PBR in stock N, SMA, 7/16 available for adapters
Coating	Silver, Tin or/and paint
Dimensions (H x W)	22,86 x 10,16 mm internal 25,40 x 12,70 mm external
Weight	0,25 kg/m Aluminium 0,76 kg/m Brass 0,81 kg/m Copper
Tolerances in length	L<500mm ± 1 mm 500<L<1000 mm $\pm 1,5$ mm L>1000mm ± 2 mm
Waveguide type	R100 (equals WR90)
Materials	Aluminium or copper
Options	Low VSWR versions. Bends and twists available. Optimised narrowband versions.

WAVEGUIDE COMPONENTS R120 (WR75)

Aerial Oy stocks various standard high precision waveguides and waveguide flanges in aluminium, brass and copper. The waveguides can be bent or twisted according to customer specifications. Normally after machining the waveguides are silver plated (Copper and brass) or chromated (aluminium) and painted. All the waveguide components are tested after manufacturing.

Please ask for a quote with your specifications.



Above is a special aluminium waveguide with one H-plane and one E-plane bend and a 90 degree twist. The flanges are PBR-type.

Type	WAVEGUIDE COMPONENTS R120 (WR75)
Frequency	9,84...15,0 GHz
Bandwidth	5,16 GHz
Impedance	50 Ω
VSWR	1,15 Typical, 1,2 typical for adapters.
Attenuation	21,5...15,1 dB/100 m Aluminium 24,9...17,4 db/100 m Brass 16,5...11,6 dB/100 m Copper
Max. Continuous power	0,737...1,06 kW Aluminium 0,662...0,948 kW Brass 0,94...1,36 kW Copper
Flanges/connectors	UBR, UDR, PDR and PBR in stock N, SMA, 7/16 available for adapters
Coating	Silver, Tin or/and paint
Dimensions (H x W)	19,05 x 9,525 mm internal 21,59 x 12,06 mm external
Weight	0,22 kg/m Aluminium 0,67 kg/m Brass 0,71 kg/m Copper
Tolerances in length	L<500mm $\pm$ 1 mm 500<L<1000 mm $\pm$ 1,5 mm L>1000mm $\pm$ 2 mm
Waveguide type	R120 (equals WR75)
Materials	Aluminium or copper
Options	Low VSWR versions. Bends and twists available. Optimised narrowband versions.