





Brief description

The **AC120** is a directional antenna adjustable in azimuth and elevation with a reflector diameter of 120 cm. It is suitable for general radiomonitoring tasks in the frequency range 1 to 26.5 GHz or 1 to 18 GHz depending on the feed used. The frequency range can be enhanced to 40 GHz by flange-connected options.

- 1.2 m reflector diameter
- Extremely wide frequency range using the same feed
- Adjustable in azimuth and elevation
- System control (rotator, antenna and polarization selection) via PC interface (Windows NT4.0)

Specifications

Frequency range:	Polarisation:
Weight	170 kg
Reflector diameter	1.2 m
(without ice deposit)	
Max. wind speed	180 km/h
Operating temperature	-30 to +55°C
Connector	RPC3.5 (female)
Elevation	-5° to +90°
Azimuth	±180°
Range of rotation	
with HL024S9	$(\Delta f = 1 \text{ MHz})$
Minimum field strength	10 dB(μV/m)
Half-power beam width	15° to 1°
Gain	18 to 42 dBi
(depending on feed)	1 to 18 GHz)
Frequency range	1 to 26.5 GHz/

linear linear H and V

H or V

H or V H and V

H, V, RHC or LHC

H, V, RHC or LHC

H, V or 45° H, V or 45°

Avai	ilable	feeds:

		(GHz)	
HL025S1	LogPer. antenna	1 to 26.5	
HL025S7	HL025 with pre-amplifier	1 to 26.5	
HL024S1	crossed logper. antenna	1 to 18	
HL024S2	HL024A1 with passive polarnetwork	1 to 18	
HL024S5	HL024A1 with band pre-amplifier	2 to 18 (active)	
	2 - 4 / 4 - 8 / 8 - 12 / 12 - 18 GHz	1 to 18 (passive)	
HL024S7	HL024A1 with pre-amplifier	1 to 18	
HL024S8	HL024A1 with two pre-amplifiers	1 to 18	
HL024S9	HL024A1 with active polarnetwork	1 to 18	
Options (later	ally flanged, retrofittable):		
AC308R2	250mm reflector antenna, 29 to 33 dBi	18 to 26.5	
AC308R3	250mm reflector antenna, 33 to 36 dBi	26.5 to 40	