





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	$(\Delta f = 1 MHz)$	
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°

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Ava	ilable	efeeds

		(GHz)		
HL025S1	LogPer. antenna	1 to 26.5		
HL025S7	HLO25 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	HLO24A1 with pre-amplifier	1 to 18		
HL024S8	HLO24A1 with two pre-amplifiers	1 to 18		
HL024S9	HLO24A1 with active polarnetwork	1 to 18		
Options (laterally 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		