

The AD-70/A-60120 is an omnidirectional antenna with horizontal polarization. It has wide coverage in the UHF frequency range of 600 to 1200 MHz and is mainly used for monitoring horizontally polarized RF signals. Thanks to its sturdy design, it can also be used for jamming applications. The antenna's unique design allows for various types of mounting.

The antenna is composed of two main parts: the antenna base and the antenna radiating element. The radiating element is protected by a hard plastic material. The radiating element is painted with military green (RAL 6014) two-component UV-resistant paint.

The vehicle antenna base is made of aluminum and durable plastic materials, optionally with integrated GPS L1 or L1/L2. The vehicle antenna base has NATO standard mounting holes equally spaced on a 4.5" (114.3 mm) circle.

The mast antenna base is made of two stainless steel joints and a aluminum tube with an outer diameter of 42.7 mm. The tube is equipped with special mounting console adapters which can be installed on the poles up to 60 mm in diameter.

The plate antenna base is designed for through-hole installation (hole diameter 30 - 31 mm), with plate thickness of max. 10 mm.

ELECTRICAL SPECS.:	
Frequency range	600 - 1200 MHz
Impedance	50 ohms
VSWR	< 2.5
Gain	See diagram
Polarization	Horizontal
Radiation Pattern	Omnidirectional
Maximum power	500 W CW
Connector	N female
ELECTRICAL SPECS - GPS:	
Frequency range	L1 1575.42 +/- 40 MHz or L1/L2 1575/1227 MHz
Impedance	50 ohms
VSWR	< 2
Polarization	RHC
Gain (LNA) / Voltage / Current	18 dB (+/- 2 dB) / 5 V / 19 mA 16 dB (+/- 2 dB) / 3.5 V / 13 mA 10 dB (+/- 2 dB) / 2 V / 7 mA
Noise fig.	< 1.5 dB
Connector	SMA female
MECHANICAL SPECS:	
Design	Dipole
Height (Option 1)	385 mm
Height (Option 2)	420 mm
Height (Option 3)	200 mm
Weight (Option 1)	5.80 kg
Weight (Option 2)	5.61 kg
Weight (Option 3)	4.19 kg
Wind rating	50 m/s (180 km/h)
Color	RAL 6014
ENVIRONMENTAL SPECS:	
High Temperature - Storage	MIL-STD-810G; Method 501.5; Proc. I; +75 °C for 96h
High Temperature - Operating	MIL-STD-810G; Method 501.5; Proc. II; +65 °C for 16h
Low Temperature - Storage	MIL-STD-810G; Method 502.5; Proc. I; -55 °C for 96h
Low temperature - Operating	MIL-STD-810G; Method 502.5; Proc. II; -40 °C for 16h
Humidity	MIL-STD-810G; Method 507.5; 10 cycles of 24 h; 95%
Solar radiation	MIL-STD-810G; Method 505.5; Proc. I; 3 cycles
Rain	MIL-STD-810G; Method 506.5; Proc. III
Icing/Freezing Rain	MIL-STD-810G; Method 521.5
Sand and Dust	MIL-STD-810G; Method 510.5; Proc. I and II
Vibration	MIL-STD 810G, Method 514.6; Proc. I
Shock-Transit Drop	MIL-STD-810G, Method 516.6, Procedure IV



Option 1:
Vehicle base: AD-70/A-60120-V



Option 3:
Plate base: AD-70/A-60120-U



Option 2:
Mast base: AD-70/A-60120-M

VERSIONS:

AD-70/A-60120-V-N*: UHF antenna with N female connector on vehicle base

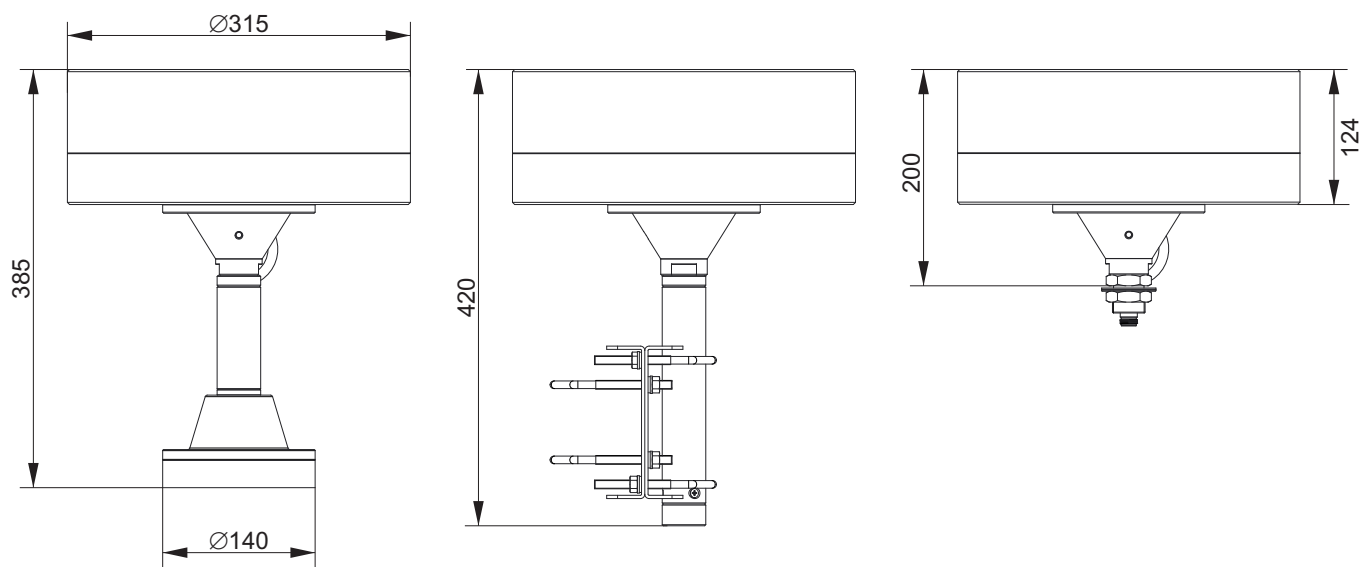
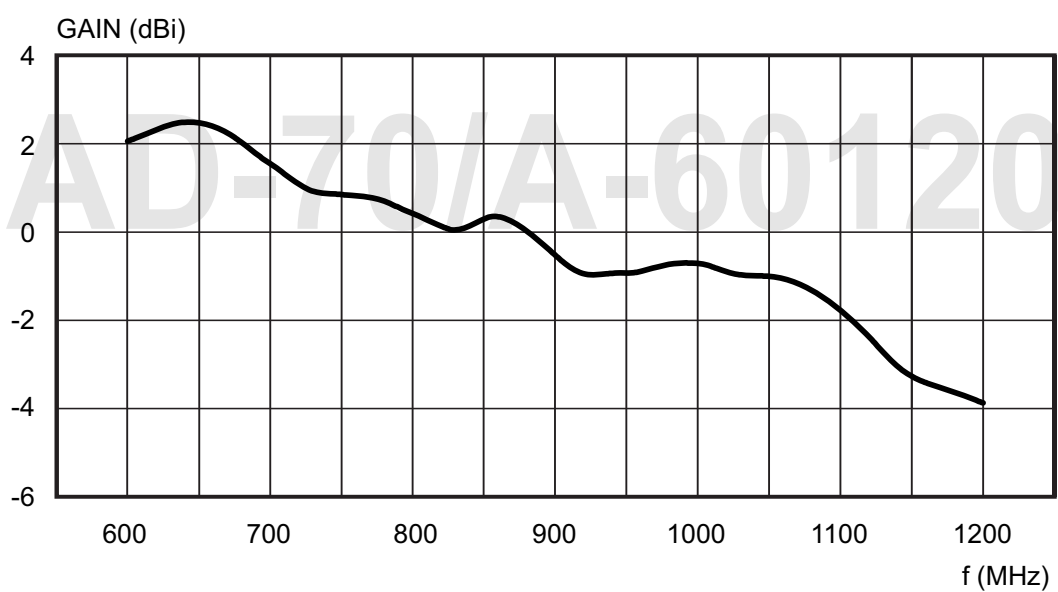
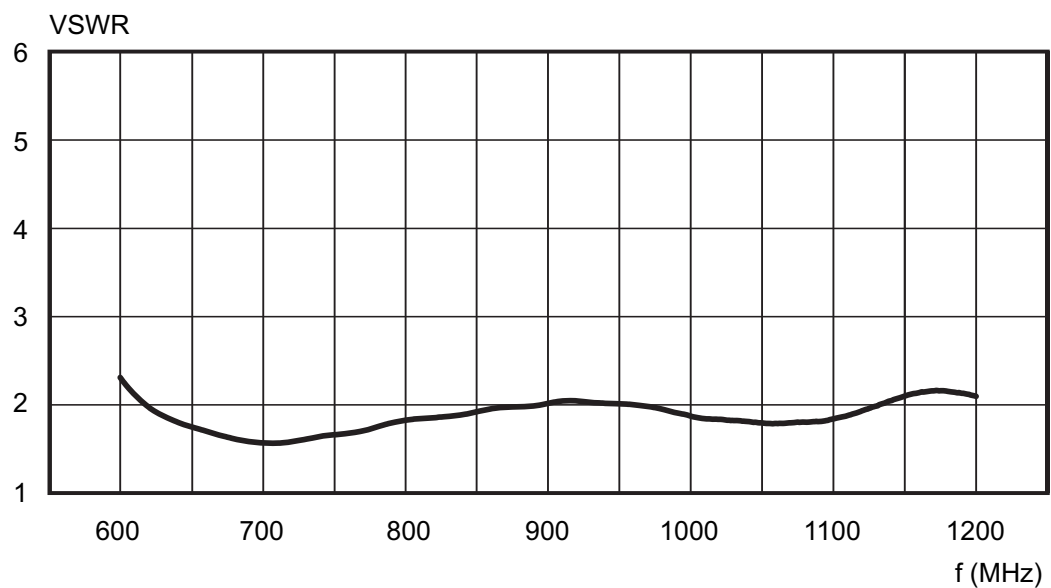
AD-70/A-60120-V-G-N*: combined UHF (N female) and GPS L1 (SMA female) antenna

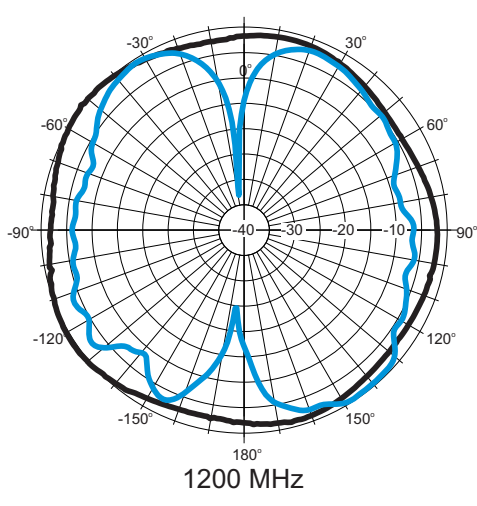
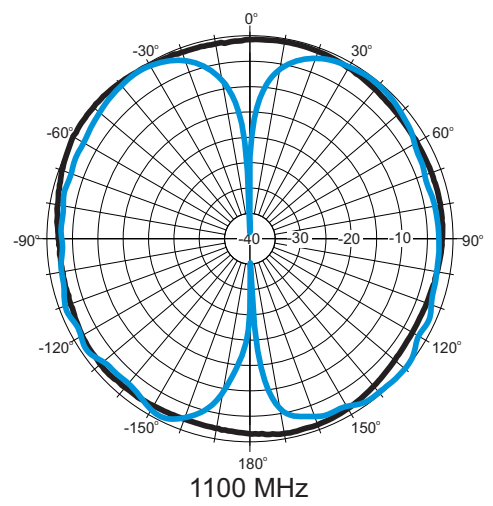
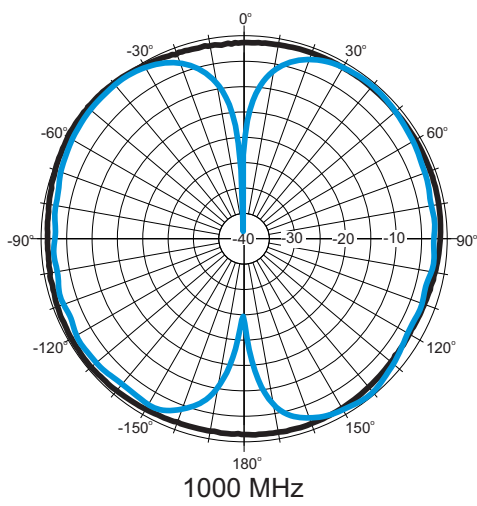
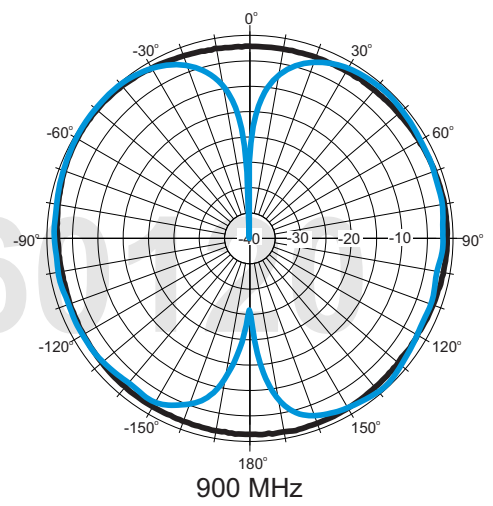
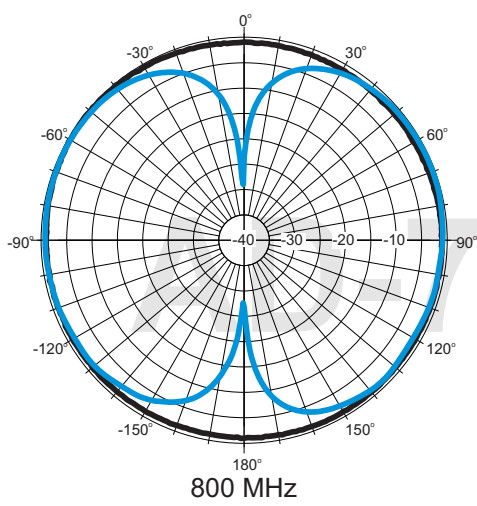
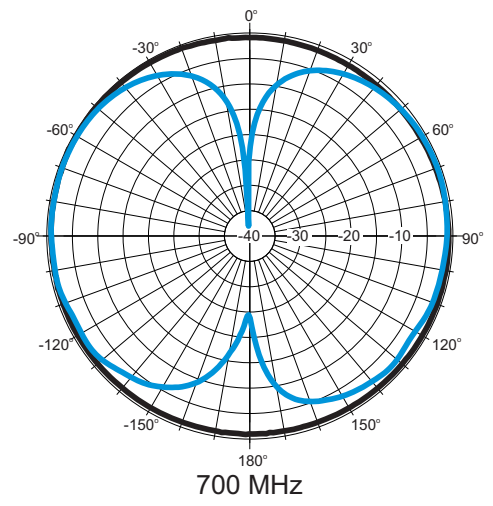
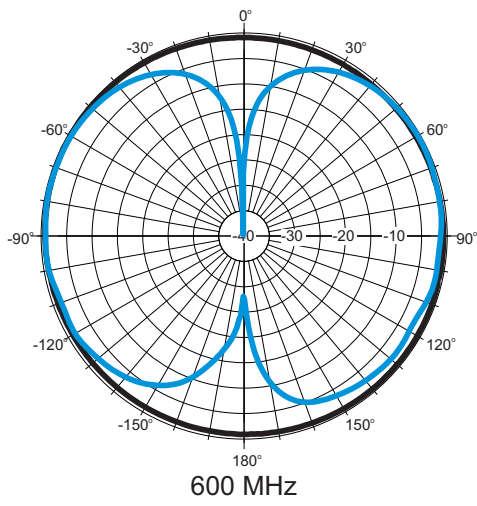
AD-70/A-60120-V-G2-N*: combined UHF (N female) and GPS L1/L2 (SMA female) antenna

AD-70/A-60120-M-N*: UHF antenna with N female connector on mast base

AD-70/A-60120-U-N*: UHF antenna with N female connector on plate base

* N connector by default, others connectors are available on request: BNC or TNC female





RADIATION PATTERNS

E plane —
H plane —

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