



MA-715A HF/VHF/UHF Monitor Antenna

The MA-715A HF/VHF/UHF Monitor Antenna is used to intercept communications signals over a frequency range of 2 to 2,000 MHz.

The antenna provides intercepted RF to the monitor receivers of Linkabit's MD-405A Signal Intelligence (SIGINT) Receiver/Processor in the AN/PRD-13(V)2 SIGINT Manpack System configuration.

There are four separate pieces to the MA-715A antenna:

- Antenna base
- HF/low-VHF blade element
- VHF/UHF monopole element
- Flexible gooseneck

The antenna is normally mounted on the handle of the MD-405A, but may be placed in any convenient location. A 3-foot RF coaxial cable is used to connect the MA-715A to the MD-405A. However, if the antenna needs to be placed in another location away from the MD-405A, a longer RF cable can be used.

The MA-715A uses two antenna elements that are combined into a single feed line. The longer, flexible HF/low-VHF blade element covers the frequency range up to 175 MHz. The second rubber-duck-type monopole element is used to cover the 175 to 2,000 MHz frequency range. The flexible gooseneck can be used between the base and HF/low-VHF blade element to provide a full 90-degree bend over a 360-degree arc. The blade element can then be positioned without bending the element itself.



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Performance Characteristics	
Frequency Coverage	2–2,000 Mhz
Azimuth Coverage	360°
Elevation Coverage	0° to 60°
Sensitivity ¹	Typical 2–175 MHz: 2 µV/m 175–2,000 MHz: 35 µV/m
Polarization	Vertical
Output Impedance	50 Ohms unbalanced
Connectors	BNC
Physical and Environmental Characteristics	
Base Dimensions	48 x 132 x 102 mm (1.9 x 5.2 x 4.0 in.)
Gooseneck Height	216 mm (8.5 in.)
Element Height	715 mm (28 in.)
Weight	0.68 kg (1.5 lbs.) (base, gooseneck, element)
Power	10–16 Volts, 40 mA
Temperature	Operating: –20° to +50° C Storage: –40° to 70° C
Humidity	0 to 100% Condensing

¹ Field strength required for a 10 dB S/N in a 10 kHz bandwidth with a receiver NF of 10 dB.

Note: All specifications subject to change without notice

Part Number	Description	Includes
02-105675-01	MA-715A	Base, HF/VME blade, UHF monopole, gooseneck, manuals
05-103072-01	Coax Cable Assembly	Coax cable, BNC connectors

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