

ALP-700

UHF Log Periodic Antenna

General Description

The Alp-700 is a broadband bi-directional log periodic antenna. It receives any frequency from 470 to 760 MHz. The gain of this antenna enables it to receive signals from a greater distance than a typical whip type antenna.

Log Periodic Antennas are also directional and have the best reception when aligned with the area to be covered. This yields the benefit of greater range toward the end zone along the sideline.

SPECIFICATIONS

Maximum Gain.....	1.8dBd (4 dBi)
Frequency Range	450-760 MHz
SWR	2.5:1
Input Impedance	50 Ω
Input Connector	TNC
Size	10.81" (274.6 mm) x 16.61" (421.9 mm)
Weight.....	0.65 lbs. (0.295kg)

Antenna Placement

The ALP-700 should be placed in a position with a clear view of the transmitter(s) for best results. Obstructions such as walls, people, and large metal objects reduces range and performance.

Antenna Monitoring

The Alp-700 is supplied with hardware for tubular clamping. It should always be mounted vertically with the ground and perpendicular to the transmitter(s). See Figure 1.

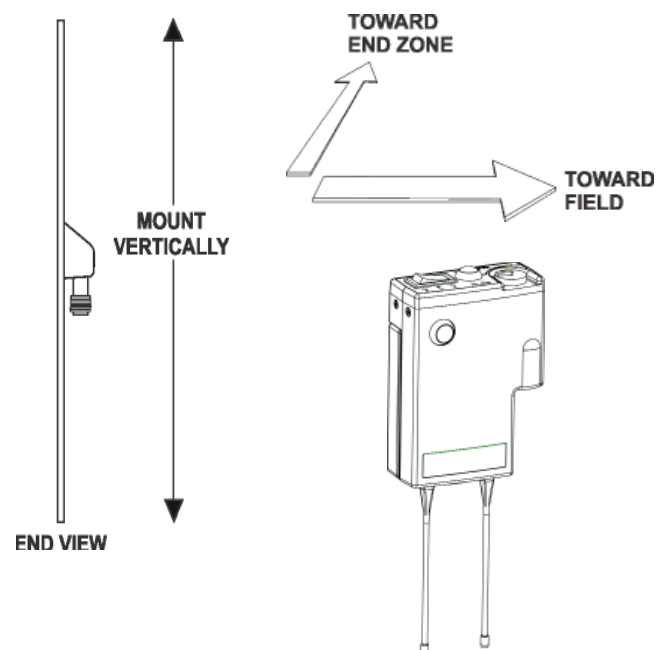


Figure 1

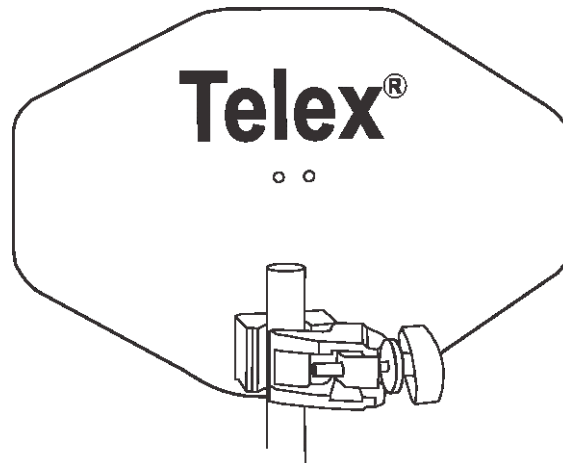
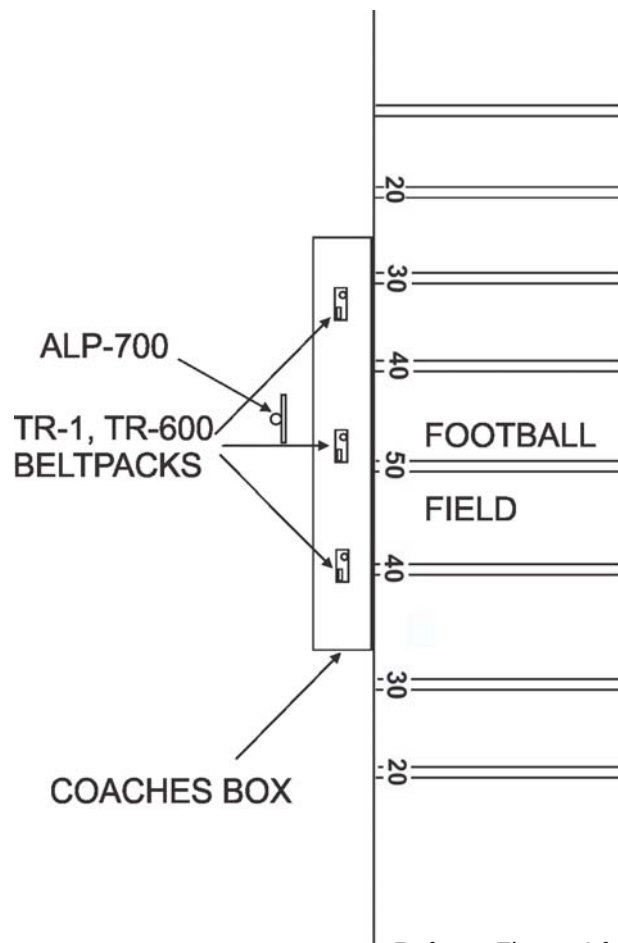


Figure 2
ALP-700 Antenna Mast Mounting



Refer to Figure 4 for typical antenna pattern and antenna mounting orientation.

Figure 3
Top View of Field

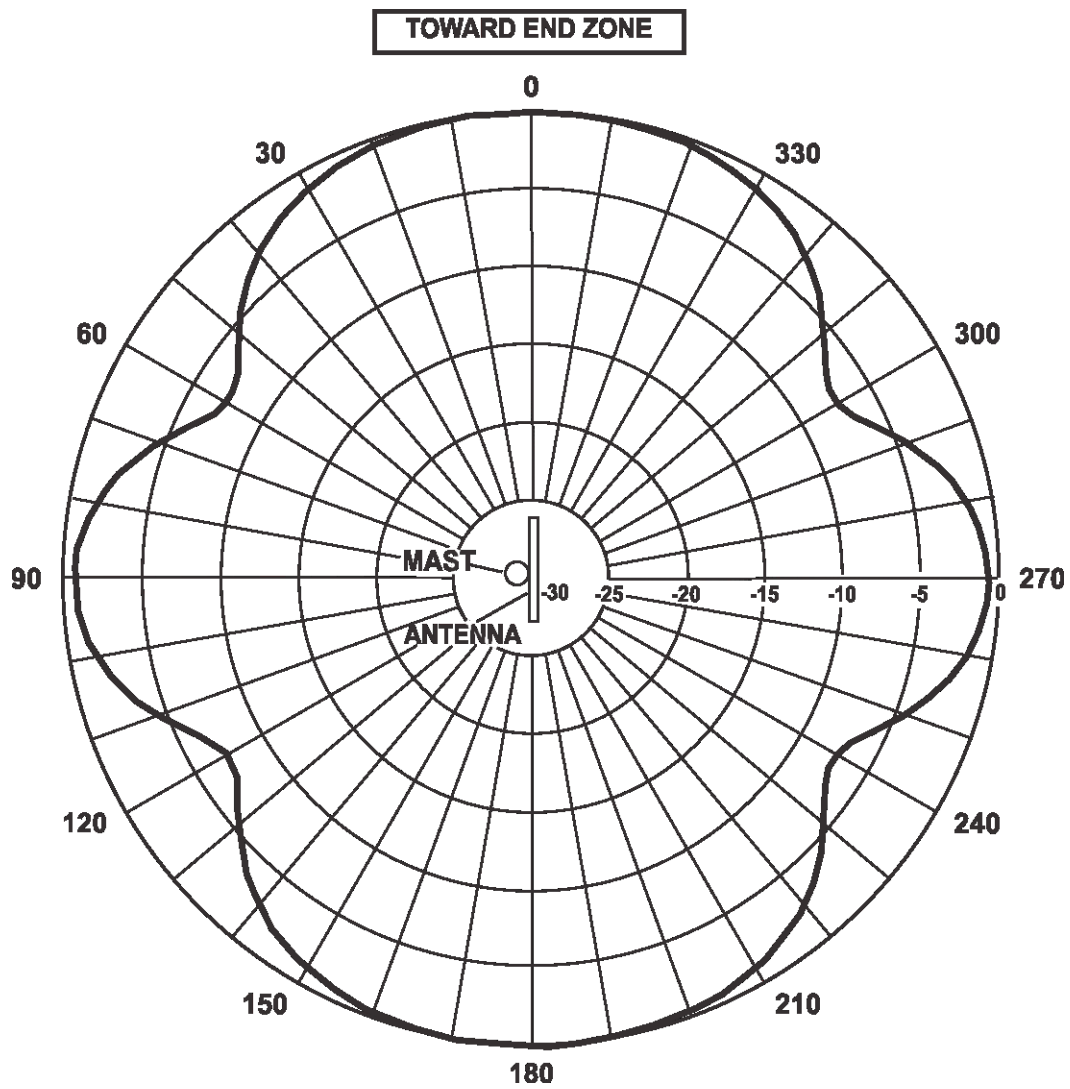


Figure 4
Typical ALP-700 UHF Bi-directional Antenna Pattern

Clamps

Clamps are provided for mounting the ALP-700 onto the antenna mast. Attach the clamps with the hardware supplied. See Figure 5.

Do not clamp the antenna to horizontal metal objects that extend past the clamp. This detunes the antenna and causes loss of range and performance.

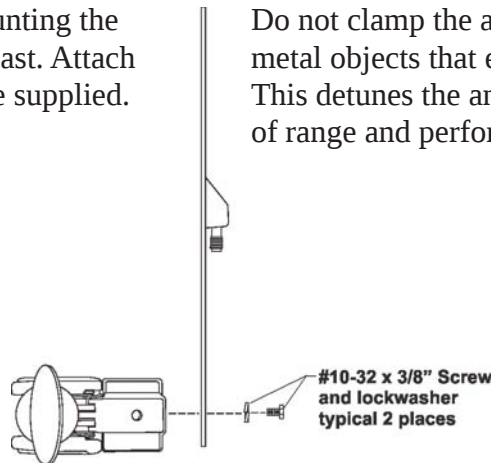


Figure 5
Clamps

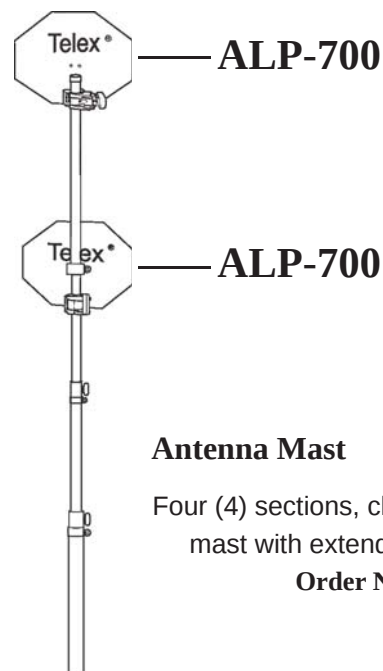
Coax Cable

For best results, it is recommended cable losses be kept under 4 dB. (Every 3 dB of signal loss results in a system operating distance reduction of 25%).

ACCESSORIES

Special Low Loss Antenna Cables with TNC Connects

10 Ft. (3 meters)	690419
25 Ft. (7.6 meters)	71151-029
50 Ft. (15 meters)	71151-050
75 ft. (23 meters)	71151-075
100 Ft. (30 meters)	71151-100



Antenna Mast

Four (4) sections, clear anodized aluminum mast with extended length of 90 1/4".
Order No. 878897-1

Order Information

ALP-700 UHF Log Periodic Antenna

Contact your sales representative for more specific order information.

This specifications information is subject to change without notification.
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