

INSTRUCTION MANUAL

General Description

The ALP-700 is a broadband bi-directional log periodic antenna. It will receive 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 will 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 (average)

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

Antenna Placement

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

Antenna Mounting

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.

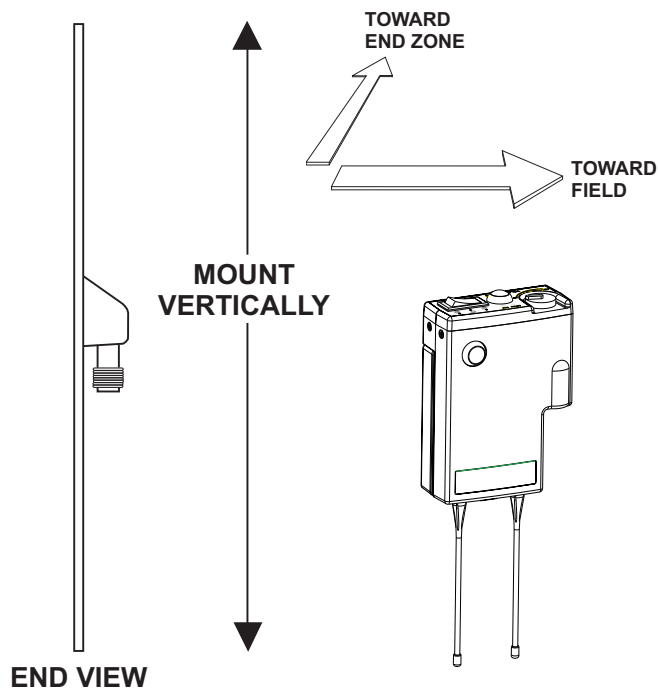


Figure 1

Mounting Suggestions

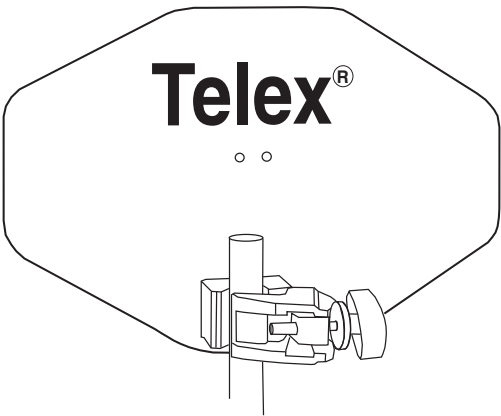
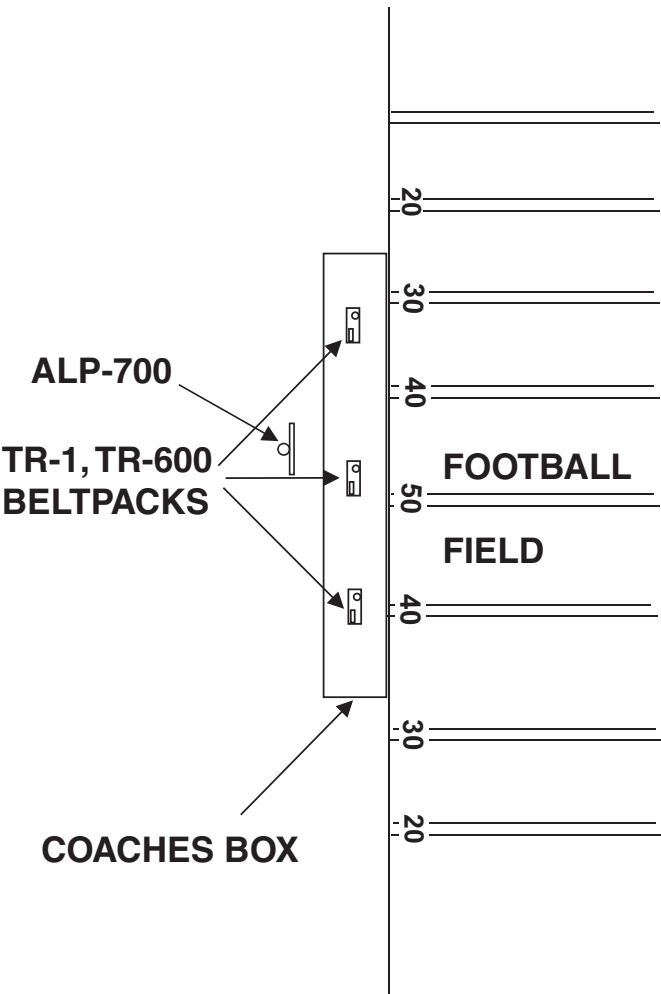


Figure 2
ALP-700 Antenna Mast Mounting



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

Figure 3
Top View of Field

ALP-700
Antenna Pattern

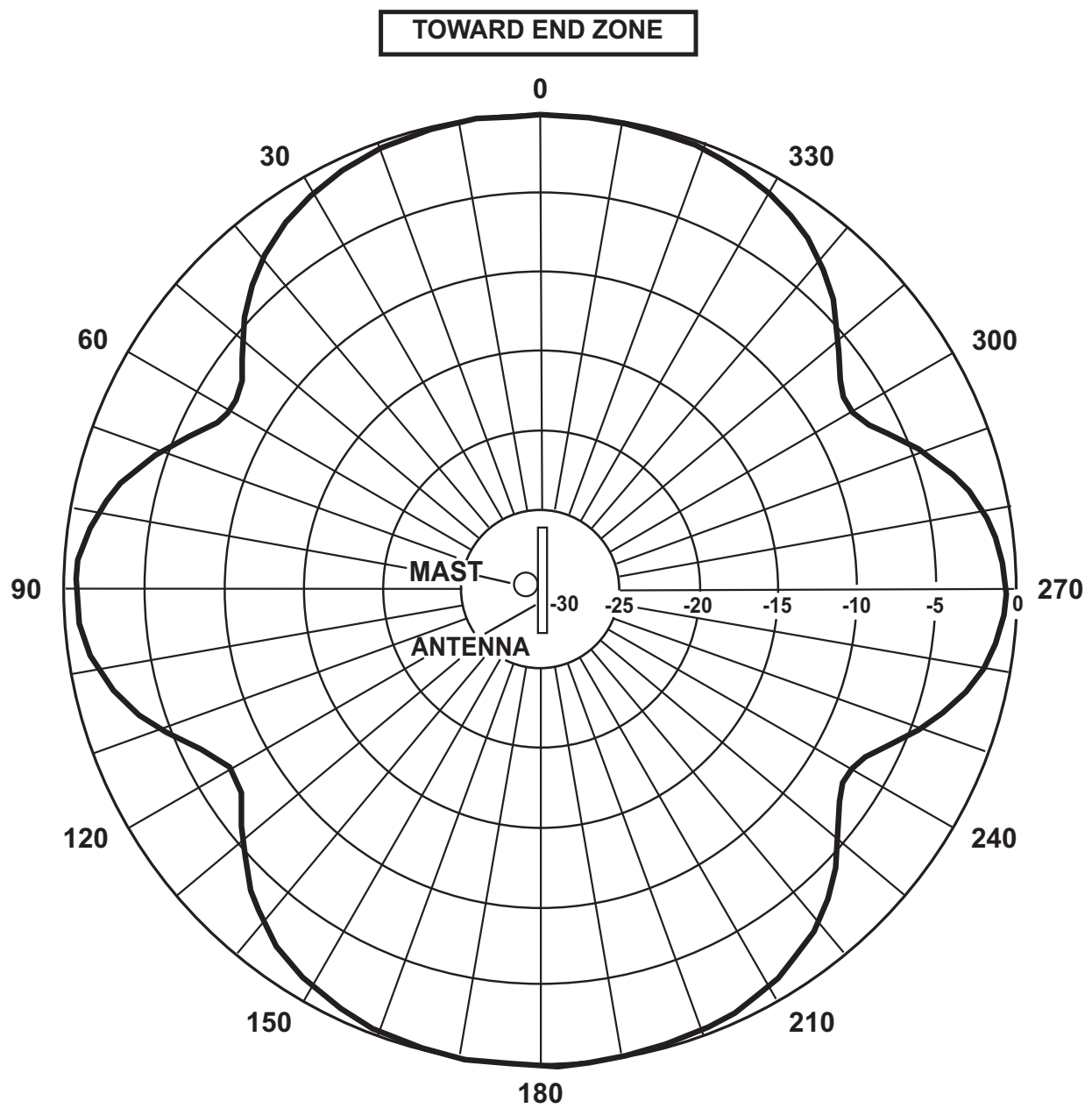


Figure 4
Typical ALP-700 UHF Bi-Directional Antenna Pattern

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 will detune the antenna and cause loss of range and performance.

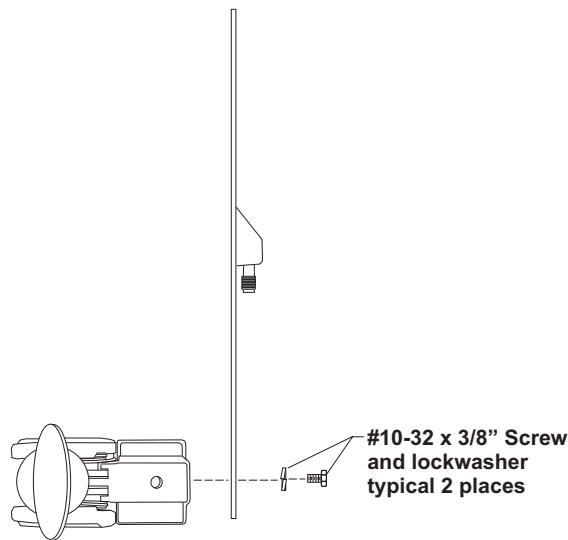


Figure 5
Clamps

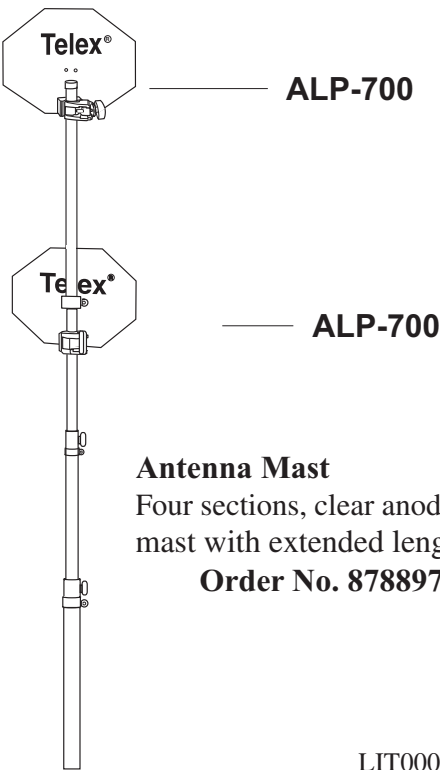
Coax Cable

For best results, it is recommended that 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**

Length	Part No.
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



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