

# Model SAT1706-Series Portable Terminal Antenna System

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The SAT1706 is a 74" diameter reflector/feed capable of operation in either receiving or transmitting modes providing a conical scan beam characteristic. The system consists of a cassegrain reflector/feed with a nutating concave subreflector to generate the conical scan pattern. An optional configuration that includes a pedestal system is the SAT1705. The antenna is transportable worldwide via highway, unimproved roads, air, helo lift and marine modes.

## Features

- Transportable & Fixed Site Terminals
- Conical Scan Beam Pattern
- Dual X and Ku Band



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## Specifications

<b>FREQUENCY RANGE</b>	<b>X Band :</b>	• 9.7 to 10.5 GHz
	<b>Ku Band:</b>	• 14.4 to 15.5 GHz
<b>ANTENNA GAIN</b>	<b>X Band :</b>	• 42 dB min
	<b>Ku Band:</b>	• 44 dB min
<b>CROSSOVER LEVEL</b>	<b>X Band :</b>	• 1.6 dB ± .4 dB
	<b>Ku Band :</b>	• 2.5 db -1.0 +.5 dB
<b>SIDELOBES</b>		• -20 dB max
<b>POLARIZATION</b>		• RHCP
<b>AXIAL RATIO</b>		• 2.0 dB max
<b>FRONT TO BACK RATIO</b>		• 40 dB
<b>BEAMWIDTH</b>		• 1.30° max @ 9.7 GHz • 0.95° max @ 15.5 GHz
<b>VSWR</b>	<b>X Band :</b>	• 1.3 : 1 max
	<b>Ku Band :</b>	• 1.3 : 1 max
<b>RF POWER CAPABILITY</b>		• 200 watts CW max
<b>ANTENNA MECHANICAL</b>		• 74 inches ; 109 pounds
<b>NUTATION RATE</b>		• 50/60 Hz ( matches AC power frequency)