

CASA Steerable Antenna

Digital, Analog or Hybrid

Choose from either our 36-inch high-gain or 17-inch-diameter intermediate steerable antenna to accommodate your next mobile or nomadic wireless situation.

The CASA-36 is perfect for airborne law enforcement applications. When coupled with a COFDM transmission system, ranges in excess of 100 miles are possible in the 6.4 GHz licensed band. The CASA-36 auto tracker has ample gain to track an air platform suitably configured, eliminating the need for bulky antenna actuator systems.

The unit can be configured as digital, COFDM, IP, OFDM, or analog or both.

NSMS provides a dual purpose 6.4 tracker/IP steerable for ultimate surveillance. Available in either the 5.8 or 4.9 GHz bands, the CASA dual purpose steerable antenna can enhance RF capture of remote IP cameras or IP enabled Command and Control ground based vehicles.

For mobile Command and Control, first responder, or medical imaging systems that required high bandwidth connectivity, the CASA 17 is the perfect solution. When coupled with the CASA vehicle control system, the unit will automatically point at designated receive sites to provide high-bandwidth communications at a fraction of the cost of high-speed satellite. Increase mobile vehicle coverage by using your CASA steerable with a number of our patented mechanical mast systems. NSMS' mechanical masts not only are more dependable, but take greater weight and wind loads than the majority of air masts. They also free up valuable space in your mobile asset as no air compressor is required.

Whether your mission is long-range surveillance, airborne tracking or need to get Wide bandwidth connectivity to your mobile systems, CASA is the right solution. Contact your NSMS sales representative or visit our web site to learn more about how CASA can solve your connectivity problems.



Applications

Tracking systems

- Airborne Law Enforcement
- UAV/UGV applications

Mobile high speed data links

- Command and Control
- Emergency management
- First Responders
- Medical Imaging



Advantages

Operates in crowded markets

- Narrow beam widths reduce noise
- Operate at maximum allowable EIRP in unlicensed bands
- Higher power lower noise increases link reliability and speed

12 bit precision positioning system

Low power operation for remote applications

PEDESTAL SPECIFICATIONS

Rotation Azimuth: 360 degree continuous

Rotation Elevation: $\pm 30^\circ$

Rotation speed: 15° per second both axis

Positional accuracy Azimuth: $\pm 0.1^\circ$

Positional accuracy Elevation: $\pm 0.1^\circ$

RF Rotary joint Characteristics: DC-12.6 Ghz

Product specifications are subject to change.

CASA - 17

Frequency: 1.7 - 12.5 GHz*

Gain: 21 dBi, 25 dBi

Beam width: 13°, 9°

CASA - 36

Frequency: 1.7 - 12.5 GHz*

Gain: 29 dBi, 33 dBi

Beam width: 4°, 6°

* Frequency Feed Dependent

ORDERING GUIDE

MODEL NUMBER	DESCRIPTION
25750	CASA-17, with Slip Rings and RF Rotary Joint for Data, Control, Power, and RF Pass-through.
25751	CASA-17, with Slip Rings for Data, Control, and Power Pass-through.
25752	CASA-36, with Slip Rings and RF Rotary Joint for Data, Control, Power, and RF Pass-through.
25753	CASA-36, with Slip Rings for Data, Control, and Power, Pass-through.

OPTIONS

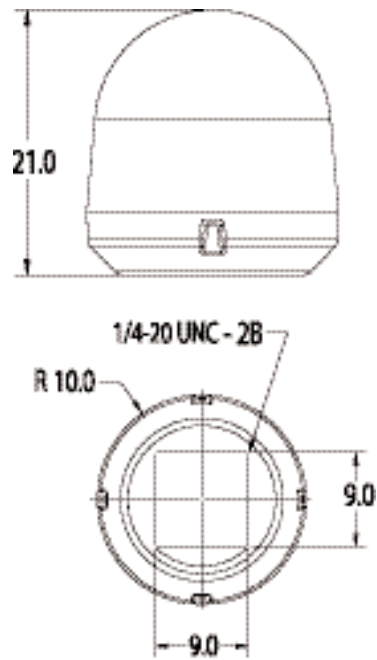
25754	Tripod, Medium Duty for CASA-17
25755	Tripod, Heavy Duty for CASA-36 or CASA-17

CASA CONFIGURATIONS

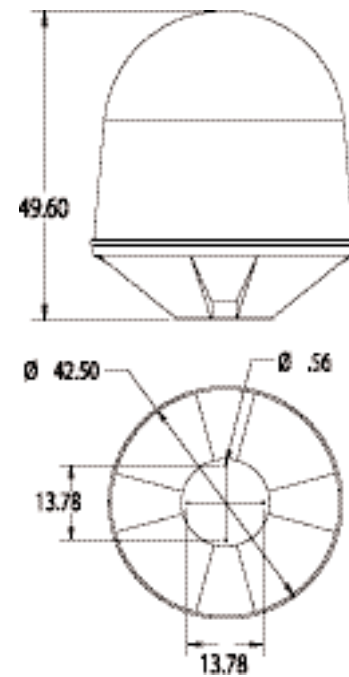
SOFTWARE	HARDWARE SUPPORT
Steerable	Computer / Controller
Auto-Tracking	GPS Receiver
IP Routing	Compass
Status Reports	Central Line
NS9200	Redundancy

RADIO

ANALOG		DIGITAL	
Frequency		Frequency	
L-Band	S-Band	L-Band	S-Band
C-Band	6.4 GHz	4.9 GHz	5.8 GHz
Agility		Bite Rate	
Transmitter		54 MB/s	108 MB/s
Power		Encryption	
1/4 Watts	1 Watt	AES-128	Other
2 Watts	5 Watts	Routing	
Receiver			



Casa 17



Casa 36

NSM
SURVEILLANCE