

# GPS Antenna

Rugged GPS antenna for mobile transit applications



## OVERVIEW

Small and unobtrusive, the MobileView™ MV3000 GPS antenna is a rugged, external-rated device that mounts to a vehicle's roof and connects to the MobileView DVR using cabling and harnesses that are included with the unit.

Designed for navigation for fleet management applications, MobileView MV3000 systems outfitted with a GPS antenna provide time synchronization, vehicle location, speed and heading.

When GPS data is present, the MobileView software automatically displays the vehicle's location in the live data stream as well as in video playback.

## STANDARD FEATURES

- SiRF Star III high performance GPS chip set
- Very high tracking sensitivity (-159 dBm)
- Exceptionally fast TTFF (Time To First Fix) at low signal level
- Support NMEA 0183 data protocol
- Built-in SuperCap reserves system data for rapid satellite acquisition
- Built-in patch antenna
- RS232 interface
- Waterproof for performance in variety of inclement conditions

# GPS Antenna

North America  
T 855-286-8889

Asia  
T 852-2907-8108

Australia  
T 61-3-9239-1200

Europe  
T 32-2-725-11-20

Latin America  
T 561-998-6114

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## Specifications

### General

Chipset	SiRF Star III
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Sensitivity	-159 dBm
Datum	Default WGS-84

### Accuracy

Position	10 meters, 2D RMS 5 meters, 2D RMS, WAAS enabled
Velocity	0.1 m/s
Time	1us synchronized to GPS time

### Acquisition Time

Reacquisition	0.1 sec., average
Hot Start	1 sec., average
Warm Start	38 sec., average
Cold Start	42 sec., average

### Dynamic Conditions

Altitude	18,000 meters (60,000 feet) max
Velocity	515 meters/second (1,000 knots) max
Acceleration	Less than 4g
Jerk	20m/sec

### Power Requirements

Baud Rate	4,800 bps
Output Message	NMEA 0183 GGA, GSA, GSV, RMC

### Power Requirements

Main Power Input	5V DC
Power Consumption	80mA

### Mechanical

Dimensions	62mm diameter, 21 mm height
Cable Length	Serial, 25 feet

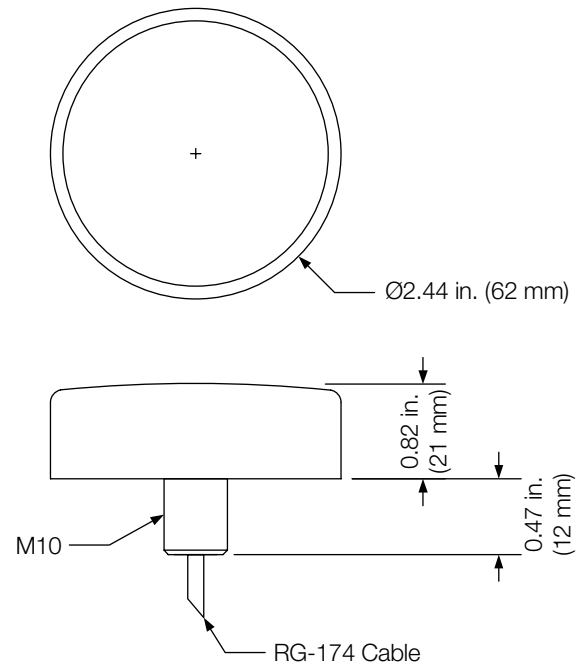
### Environmental

Operating Temperature	-40°C to +85°C
Water resistance	Waterproof

## Ordering Information

<b>MVH-3001-MO-08</b>	MobileView 3000 GPS Antenna, Built-in-Module, 25 ft. Cable
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## Dimensional Diagrams



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Specifications subject to change without notice.

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210-3604 2012/11 (72615D)