



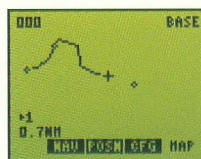
# RAPID DEPLOY GPS

## THE NEW GARMIN GPS 85

**G**rab the tactical advantage with the GPS 85 MIL – the handheld GPS receiver with *graphic displays*.

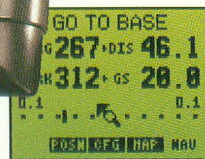
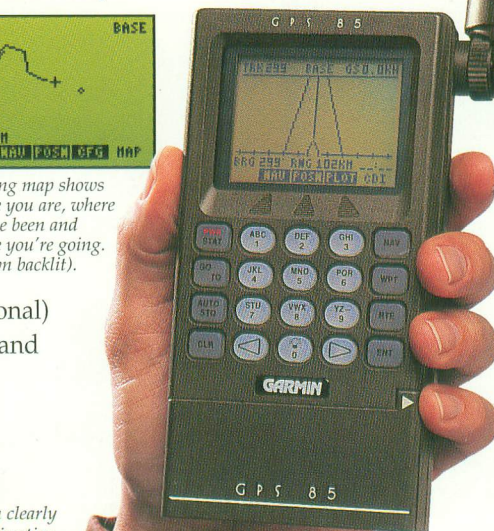
The moving map, "highway," CDI, and other screens clearly show position and course *at a glance*. And menu-driven "soft-keys" make screen selection *one-touch* simple.

- MultiTrac 8™ tracks and uses 8 satellites
- MGRS, UTM, lat/lon, and other grids
- 500 user waypoints
- 20 reversible routes with 30 waypoints
- Fast data crossload between systems
- PC mission planning kit (optional)
- Simulator mode for planning and training
- RS-232 and NMEA interfaces



*Moving map shows where you are, where you've been and where you're going. (shown backlit).*

**THE NEW GPS 85 BRINGS FAST-READ GRAPHICS AND UNPRECEDENTED POWER TO PORTABLE GPS**



*Instant Go-To navigation to any waypoint (shown backlit).*

GARMIN's patented receiver and antenna designs give a fast first fix and enhanced reception, *even under heavy foliage canopy*.

Built with combat-proven GARMIN quality and toughness, the GPS 85 is tested to MIL STD 810D.

So whether you're flying at 900 knots or walking, the GPS 85 MIL is a tactical advantage – any way you look at it.



**WE UNDERSTAND YOUR POSITION**

GARMIN International  
 9875 Widmer Rd., Lenexa, KS, USA 66215  
 1-800-800-1020 or 913-599-1515  
 Fax: 913-599-2103

*The "highway" screen clearly shows correct travel direction (screen not backlit).*

# GPS 85 MIL

## Physical

### Size:

(without battery pack) 8.1 x 12.45 x 3.8 cm 3.2 x 4.9 x 1.5 inches

(with battery pack) 8.1 x 16.3 x 3.8 cm 3.2 x 6.4 x 1.5 inches

### Weight:

0.4 kg (14 ounces) without battery pack

0.54 kg (19 ounces) with battery pack

### Applications:

Swivel-mounted, surface-mounted and handheld

### Case:

High-impact, corrosion- and water-proof,  
glass filled lexan

### Display:

High-contrast, backlit, dot matrix LCD  
(selective levels of lighting)

### Keypad:

Backlit alphanumeric (selective levels of lighting)

## Environmental

### Temperature:

Operating: -20°C to +75°C

Storage: -40°C to +80°C

## Power

### Source:

Alkaline battery pack (4 AA cells) or 5 to 40 volts DC

### Usage:

1.1 watts

### Battery Life:

Up to 8 hours (Normal mode)

Up to 6 hours (High Dynamics mode)

## Performance

### Receiver:

MultiTrac8™ tracks and uses up to 8 satellites to  
compute and update position

### Acquisition Times:

Warm: approx. 15 seconds

Cold: approx. 2 minutes

AutoLocate™: approx 7.5 minutes

### Update Rate:

1/second, continuous

### Accuracy:

Position: 15 meters (49 feet) RMS\*\*

Velocity: 0.1 knot RMS steady state\*

### Altitude:

54,000 feet (18,000 meters)

### Dynamics:

999 knots velocity; 3Gs

### Interfaces:

NMEA 180, 182, 183 (1.5 and 2.0) and RS-232

## Navigation Characteristics

### User Waypoints:

Total: 500 alphanumeric (40 character description)

Nearest: list of nine (automatic)

### Routes:

20 reversible (30 waypoints each)

### Map Datums:

102 plus 1 user-defined

### Coordinates:

Military Grid Reference System (MGRS)

Universal Transverse Mercator (UTM)

Universal Polar Stereographic (UPS)

Latitude/Longitude

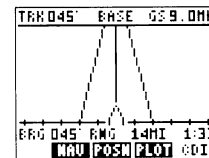
British Grid

Irish Grid

Indian Lambert Grids

Malaysian RSO Grid

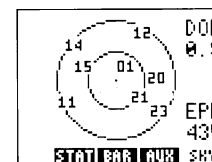
Swiss Grid



Crosstrack (CDI) indicator tracks your progress to destination.



Navigational page displays all critical information needed to navigate with confidence.



Displays all satellites relative to your position.

## Components

### Standard:

GPS 85 unit with detachable antenna  
Swivel/surface mount  
AA battery pack  
Power/data cable  
User's manual  
Quick reference card

### Optional:

PC mission planning kit  
Cigarette lighter adapter  
Rechargeable NiCad battery kit  
Lithium battery pack  
Remote antenna with suction cup mount  
Mobile, magnetic mount, blade and low-profile antennas  
Carrying case in camouflage, desert or jungle with web belt and shoulder strap



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Specifications subject to change without notice.

\*\*Subject to accuracy degradation to 100m 2DRMS under the United States Department of Defense imposed Selective Availability Program.

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