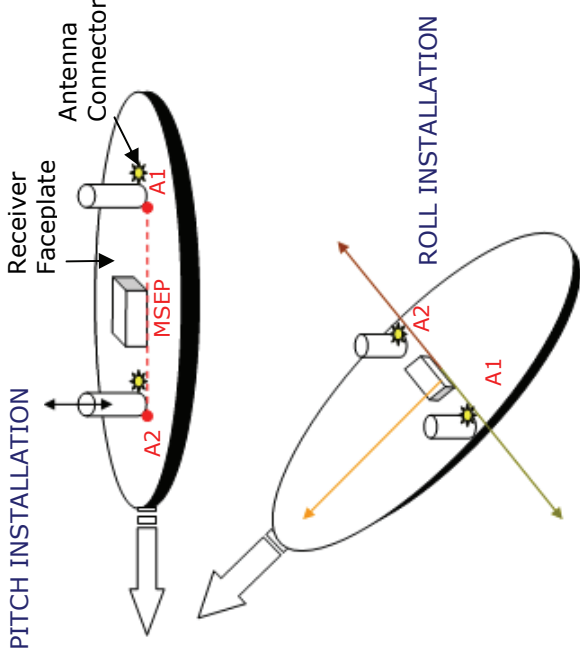


## Getting Started

1. Turn on power.
2. Select **Config Wizard**. Next select **Use Previous** or **Proceed Wizard** to create a new configuration.
3. Select the appropriate differential source and communication port settings for new configurations.
4. Change defaults to the aiding features, time constants and bias only if you are customizing the mounting installation including:
  - Unable to mount the antennas and/or the receiver on a level plane
  - Unable to mount the antennas at a 0° heading or on a level plane
  - Need accurate heading while remaining stationary for long time periods
5. Enter antenna separation if antennas were NOT installed 0.5 meters apart. The separation distance must be measured to the nearest CENTIMETER.
6. Enter desired attitude output (Pitch or Roll).
7. Select Save to Location and Save.
8. Select Config Wizard and Use Previous to enable the custom settings.

## Installation



- A1 – Primary antenna determines your position
- A2 – Secondary antenna determines pitch or roll (enter 90° bias if using roll set-up)
- Antenna separation (MSEP) must be between 0.5 and 2 meters
- Antenna connectors must point in the same direction
- Receiver faceplate (side with display) must face the primary antenna (A1)
- Mount receiver in the same orientation as the two antennas (same heading and pitch/roll angle)



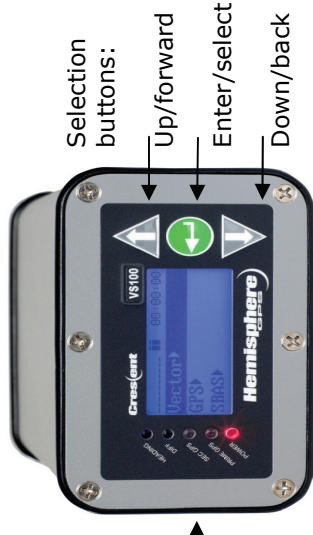
# Hemisphere<sup>®</sup> GPS

## Crescent VS100 Series Quick Reference Guide

(Part Number 875-0184-000 Rev. A1)

### Display

Illuminated LEDs indicate:  
Heading  
Differential Signal  
Secondary GPS  
Primary GPS  
Power



Display screen (Main menu shown)  
*Note: Power toggle switch and connectors on back (not shown).*

### GPS Status

**GPS signal indicator**  
**DGPS signal indicator**

Each bar represents a distinct satellite and its associated signal quality. The higher the bar, the better the signal.

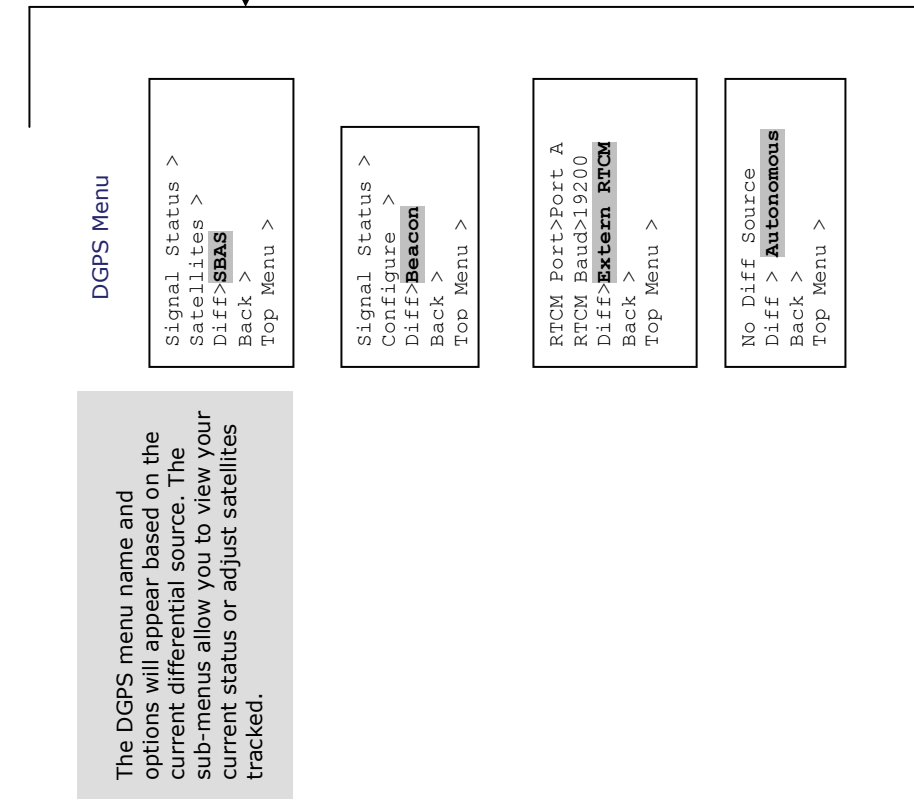
**Note:** If using autonomous or external correction mode, the DGPS signal indicator will not appear in the display. Differential signal status has no effect on the heading output.

# Menus

Vector sub-menus allow you to view and configure Vector settings. Options vary depending on whether Pitch or Roll is selected, and include items such as aiding features, time constants, heading bias and antenna separation.

## Vector Menu

```
Display >
Aiding Features >
Bias neg tilt >
Antenna >
Pitch/Roll >
Back >
Top Menu >
```



The DGPS menu name and options will appear based on the current differential source. The sub-menus allow you to view your current status or adjust satellites tracked.

## DGPS Menu

```
Signal Status >
Satellites >
Diff>SBAS
Back >
Top Menu >
```

```
Signal Status >
Configure >
Diff>Beacon
Back >
Top Menu >
```

```
RTCM Port>Port A
RTCM Baud>19200
Diff>Extern RTCM
Back >
Top Menu >
```

```
No Diff Source
Diff > Autonomous
Back >
Top Menu >
```

GPS sub-menus allow you to view and configure your GPS settings. Settings include the data port outputs, specific positioning parameters, UTC time offset, and satellite visibility and positioning information.

## GPS Menu

```
PositionStatus >
Satellites >
Configure >
Back >
Top Menu >
```

## Configuration Wizard Menu

```
Create New>
Save Current>
Back>
Top Menu>
```

```
Enter Name> A
DIFF>SBAS
Data Port A>
Data Port B>
Elev Mask>5
MaxDGPSage>3600
Port A>9600
Port B>9600
Aiding Features>
Time Constants>
Bias,Neg. Tilt>
Ant. Sep>0.500
Pitch/Roll>Pitch
Save To Location>
Back>
Top Menu>
```

The Configuration Wizard setup sub-menus allow you to set and change configurations.

System setup sub-menus allow you to quickly view and edit current system settings. General settings include such items as current applications, units, baud rates, logs, LCD contrast, subscription code, display orientation (you can flip the display vertically by selecting "YES" under FLIP DISPLAY), and language.

## System Setup Menu

```
Display Apps >
Display Format >
Baud Rates >
Display Logs >
Software Display >
Contrast >
Animation > Off
Subscription >
Flip Display >NO
Language >
Back >
Top Menu >
```