Terrain Awareness Upgrade For AirMap® 2000

This Terrain Awareness upgrade allows your AirMap 2000 to show the ground in color shaded relief format, and uses different colors to highlight terrain with potentially hazardous altitudes. The topography is represented by dark green, dark yellow and brown. Terrain awareness is represented by light green, yellow and red highlights.

The software upgrade comes loaded on an MMC or SD card. It also contains the latest Jeppesen® Americas and Lowrance Obstructions aeronautical databases, the terrain mapping data and airport taxiway mapping data. The terrain data includes high resolution maps for North and South America and lower resolution maps for the rest of the world.

You must have the terrain awareness card inserted in the unit in order to use the terrain awareness features

Installation
The software upgrade will not run if the batteries in your AirMap 2000 are low. We recommend you run the upgrade with the unit attached to external power. If you're not using external power, make sure the batteries are fresh before beginning the upgrade.

1. Insert the upgrade card into the AirMap.
2. Connect the unit to external power. 3.

Turn the unit on, and the upgrade begins automatically.

Operation

The Terrain Awareness feature can be turned on and off in the Map Categories Drawn menu by checking (on) or unchecking (off) the Terrain Awareness category. If you turn off the Background subcategory, the map screens will not show shaded relief. If you turn off the Warnings subcategory, potentially hazardous terrain will not be highlighted in various colors.

Color Code

As you fly, the AirMap notes your current altitude and the height of the terrain below you. The relief map shows areas with different risk levels in different colors, according to the following perimeters:

• Red highlight: indicates terrain that is at your current altitude or higher.

• Yellow highlight: indicates terrain 500 feet below your current altitude.

• Green highlight: indicates terrain 1,000 feet below your current altitude.

• When flying over the ocean, the surface shading in the Profile Window reverts to a pattern of small Xs, indicating no risk of flying into elevated terrain.

All map screens will show the terrain relief shading except for the Navigation Panel and the Aviation Map option. On those screens, the terrain awareness color highlight does appear.

Navigation Airspace Page

This upgrade adds the Navigation Airspace Page to the unit's major operating modes. This page has two windows. The top window (Map Window) shows the relief map overlaid with Jeppesen data and terrain awareness color shading. The bottom window (Profile Window) shows your altitude relative to a 2D cross-section of the terrain under and ahead of you. This window also shows shading for different airspace categories.

Map Window

In the Map Window, the cross-hatched line extending from the nose of the aircraft symbol represents your projected track. The area under this projected track is shown in the Profile Window below.

You can use the cursor to view the terrain in other areas on the map. As you move the cursor, the projected track line will swing around, leading the cursor. The 2D display changes according to the selected terrain.

Profile Window

In this window, your current position (or cursor position if cursor is up) is always at the left edge of the screen. The terrain ahead of you stretches to the right. The line extending from the aircraft nose is your altitude and vertical speed indicator. In level flight, the altitude line is parallel to the ground. In a climb, the altitude line will swing up. It will swing down when descending. Controlled airspaces are shown in different colors and in the appropriate 2D shapes. Note that vertical speed and altitude

information in this display are not as accurate as the position information.

The terrain appears in cross-section at the bottom of the window. The terrain is color coded to indicate the relative elevation below you. Obstacles are represented by a line extending into the air, with a circular callout at the top of the line. The callout shows proximity to your track: an X indicates the obstacle is on your track or within 500 feet of it; an L indicates the obstacle is more than 500 feet to the left of your track, an R indicates the obstacle is more than 500 feet to the right of your track.