



## TERPROM® DIGITAL TERRAIN SYSTEM

# MISSION PROVEN, GPS-DENIED TERRAIN REFERENCED NAVIGATION

Enables helicopters to fly demanding missions more safely and effectively in all weather conditions, day and night

Traditional, forward-looking radar has a downside of potentially alerting an enemy with its forward electronic emissions. The Collins TERPROM® Digital Terrain System combines a highly accurate navigation capability with a digital terrain map to provide flight safety with no forward electronic emissions.

Today's helicopters are also operating closer to the ground and must seek cover from any available terrain. Their maneuverability means conventional pull-up warnings are inadequate and a higher level of situational awareness is needed.

Helicopter TERPROM provides Advanced Terrain Avoidance Cueing (ATAC) which gives sufficient time for the pilot to take any necessary action. It also



provides predictive obstruction and wire threat advisories to the crew. Integrating helicopter TERPROM with other on-board sensors brings the ability to fly nap of the earth, automatically and safely, within reach.

Other functions such as predictive ground collision avoidance system, database terrain following (DBTF) and air to ground ranging are available, making this the most versatile tactical ground proximity warning system for helicopters.

Collins Aerospace has a respected track record as the supplier of the world's most advanced digital terrain system, TERPROM.

### KEY FEATURES

- Terrain referenced navigation
- Predictive ground collision avoidance system
- Advanced Terrain Awareness Cueing (ATAC)
- Obstruction warning and cueing
- Terrain awareness display
- Passive ranging
- Database terrain following (DBTF)
- Terrain and threat avoidance

## KEY FEATURES

### Terrain referenced navigation

- Accurate, drift-free navigation relative to an on-board terrain database
- Uses Kalman filter fusion of data from existing aircraft sensors
- Provides precise, reliable and predictive ground proximity warnings
- Non-GPS dependent

### Predictive ground collision avoidance system

- Generates both audio and visual ground proximity warnings
- Scans ahead in the terrain database and predicts appropriate avoidance maneuver

### Advanced terrain awareness cueing

- Intuitive dynamic visualization of the terrain
- Provides information both ahead and on either side of the aircraft

### Obstruction warning and cueing

- Provides directional cues to connected obstructions such as power lines or pylons plus fixed obstructions
- Enables visual identification and appropriate evasive maneuver

### Terrain awareness display

- Visual interface displaying the terrain as a series of color bands
- Allows easy identification of potential threats from terrain

### Passive ranging

- Ranging to points on ground
- Supports low level drops or intelligence gathering
- Search and rescue

### LRU options

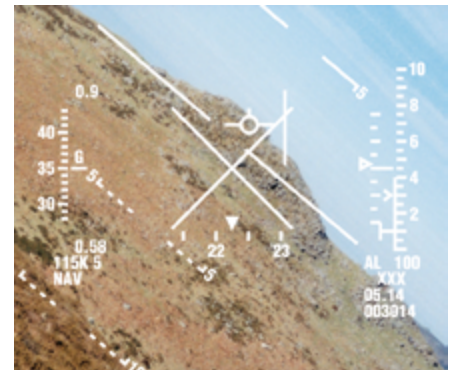
- A/V outputs
- 1553/ARINC bus support
- Onboard map storage

### Terrain and threat avoidance

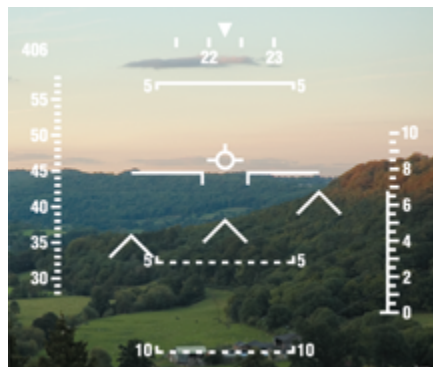
- Real-time prediction of an optimum route through the terrain to a future waypoint
- Minimizes exposure to terrain threats



Terrain referenced navigation



Predictive ground collision avoidance system



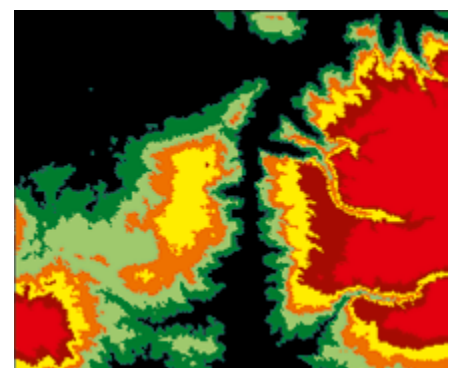
Advanced terrain awareness cueing



Wires warning and cueing



Obstruction warning and cueing



Terrain awareness display

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