



## TERPROM® DIGITAL TERRAIN SYSTEM

# Mission proven, GPS-denied navigation and situational awareness

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

Traditional, forward-looking radar has the downside of potentially alerting an enemy with its forward electronic emissions. The Collins TERPROM® Digital Terrain System combines highly accurate navigation capability with a digital terrain map, providing situational awareness, flight safety and air-to-ground ranging functions, with no forward emissions.

Today's helicopters operate closer to the ground. When they seek cover, maneuverability requires a higher level of situational awareness and more advanced pull-up warnings.

TERPROM® includes the Advance Terrain Avoiding Cueing capability which provides real time steering cues pilot against the terrain, obstructions and wires around the aircraft. Integrating TERPROM® with other onboard sensors also enables nap-of-the-earth flying, automatically and safely, within reach.

Other features, such as, Predictive Ground Collision Avoidance System, Database Terrain Following (DBTF) and air-to-ground ranging are available, making TERPROM® the most versatile tactical ground proximity warning system for helicopters.

## KEY FEATURES & BENEFITS

- Terrain Referenced Navigation
- Predictive Ground Collision Avoidance System
- Advanced Terrain Avoidance Cueing (ATAC)
- Obstruction Warning and Cueing
- Terrain awareness display
- Passive ranging
- Database Terrain Following
- ITAR free



## KEY FEATURES

### Terrain Reference Navigation

- Offers accurate, drift-free navigation relative to an onboard terrain database
- Uses Kalman filter fusion of data from existing aircraft sensors
- Provides precise and reliable navigation
- Not dependent on GPS

### Predictive Ground Collision Avoidance System

- Generates both audio and visual warnings against imminent controlled flight into terrain
- Scans ahead in the terrain database and predicts appropriate avoidance maneuvering

### Advance Terrain Avoidance Cueing

- Enables 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, and fixed obstructions
- Enables visual identification and appropriate evasive maneuvering

### Terrain Awareness Display

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

### Passive Air to Ground Ranging

- Provides three separate ranging functions: horizontal, line of sight and coordinate
- Allows locations of points of interest on the ground to be determined and passed on to sensor and weapon systems

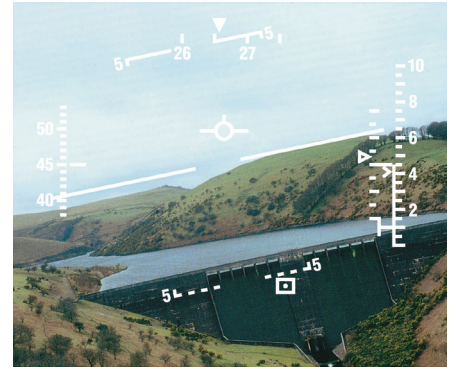
- Supports multiple functions, including attacking targets of opportunity with guided or ballistic weapons, threat visibility calculation and intelligence gathering

### Line Replaceable Unit Options

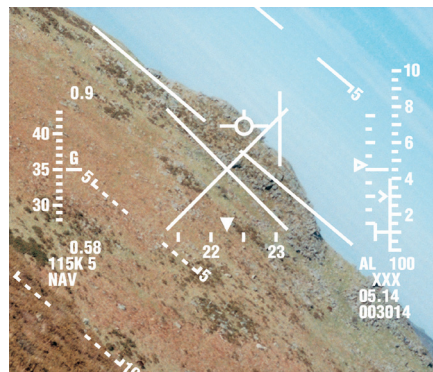
- A/V outputs
- 1553/ARINC bus support
- Onboard map storage

### Terrain and Threat Avoidance

- Real-time calculation of the optimum route through the terrain to the next waypoint
- Minimizes exposure to terrain threats



Terrain Referenced Navigation



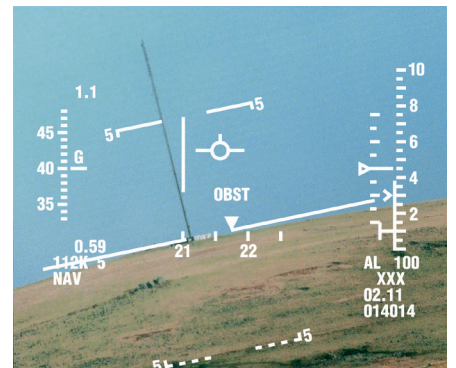
Predictive Ground Collision Avoidance System



Advance Terrain Avoidance Cueing



Wires Warning and Cueing



Obstruction Warning and Cueing

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