Today's aircraft are required to fly demanding missions safely and effectively, by day and night, in all weather conditions. Traditionally, forward-looking radar has been used to achieve this capability, but it comes with the cost of alerting the enemy. The UTC Aerospace Systems TERPROM® system is a true tactical tool that combines a highly accurate navigation capability with a digital terrain map, providing flight safety with no forward electronic emissions.

TERPROM® is the world's most proven Digital Terrain System. Helicopters are forced to operate closer to the ground than ever before, seeking out cover and protection from any available terrain or feature. The need to remain protected and the helicopter's manoeuvrability mean that conventional commercial 'pull up' warnings are inadequate and a higher level of situational awareness is needed.

Helicopter TERPROM® provides Advanced Terrain Avoidance Cueing (ATAC). These graduated advisory cues give enough time to decide any necessary course of action. Helicopter TERPROM® also provides Predictive Obstruction and Wire threat advisories. Integrate Helicopter TERPROM® with other on-board sensors, and the ability to fly nap-of-the-earth operations automatically and safely is within reach.

Other functions such as Predictive Ground Collision Avoidance System (PGCAS), Database Terrain Following (DBTF) and air to ground rainging functions are available making Helicopter TERPROM® the most versatile tactical helicopter Ground Proximity Warning System (GPWS) available, ensuring the terrain remains your best ally and not your worst enemy.
TERPROM® Digital Terrain System

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 manoeuvre

Advanced Terrain Awareness Cueing
- Intuitive dynamic visualisation 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 manoeuvre

Terrain Awareness Display
- Visual interface displaying the terrain as a series of colour bands
- Allows easy identification of potential threats from terrain

Passive Ranging
- Ranging to points on ground
- Supports low level drops or intelligence gathering

Database Terrain Following
- Passive terrain following capability
- No active sensors or forward emissions

Terrain and Threat Avoidance
- Real time prediction of an optimum route through the terrain to a future waypoint
- Minimises exposure to terrain threats

For additional information:
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