



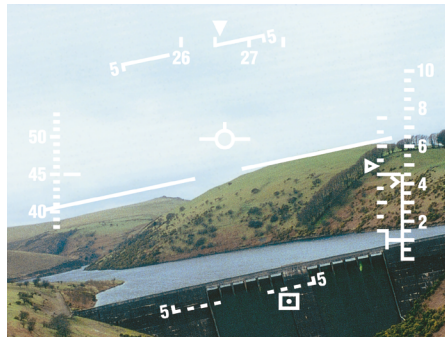
TERPROM® DIGITAL TERRAIN SYSTEM

Mission proven, GPS-denied navigation and situational awareness

Enables aircraft 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. Designed specifically for military aircraft, the Collins Aerospace TERPROM® Digital Terrain System is a true tactical tool that 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.

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TERPROM® uses stored digital terrain elevation data and inputs from the aircraft's navigation system and radar altimeter to produce a highly accurate Terrain Referenced Navigation solution. TERPROM® uses the navigation solution together with digital map data to provide functions that protect against controlled flight into terrain (CFIT) and enhance situational awareness.

TERPROM® is already in operational service and has been selected by over 20 air forces worldwide for use on many different aircraft types.

KEY FEATURES & BENEFITS

- Terrain Referenced Navigation
- Predictive Ground Collision Avoidance System
- Obstruction Warning and Cueing
- Database Terrain Following
- Passive Air to Ground Ranging
- Advanced Terrain Avoidance Cueing (ATAC)
- ITAR free



Collins Aerospace
An RTX Business

KEY FEATURES

Terrain Referenced Navigation

- Offers accurate, drift-free navigation relative to an onboard terrain database
- Features accuracy comparable to GPS
- 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
- Does not rely upon continuous radar altimeter inputs
- Operates throughout the entire flight envelope of the aircraft
- Scans ahead in the terrain database and predicts appropriate avoidance maneuvering

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

Passive Air to Ground Ranging

- Provides three separate functions: horizontal, line of sight and coordinate ranging
- Allows locations of point 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 (LRU) Options

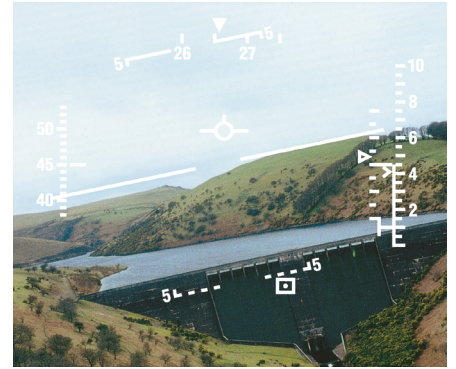
- A/V outputs
- 1553/ARINC bus support
- Onboard map storage

Database Terrain Following

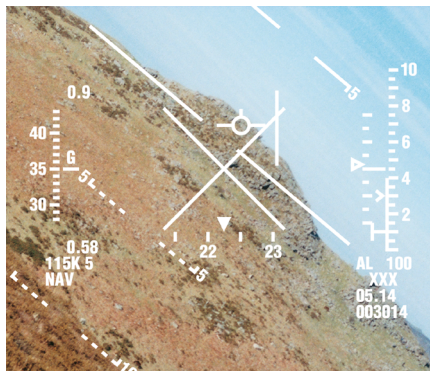
- Provides a steering cue to fly a low-level terrain following flight path
- Uses no active sensors and emits no forward emissions
- Uses knowledge of the terrain beyond the immediate horizon to calculate a smooth ground hugging flight profile

Advanced Terrain Avoidance Cueing (ATAC)

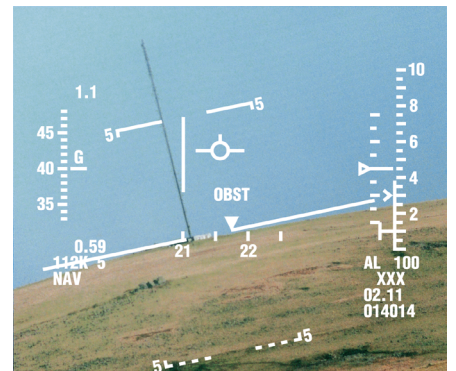
- Enables intuitive, dynamic visualization of the terrain
- Provides information both ahead and on either side of the aircraft



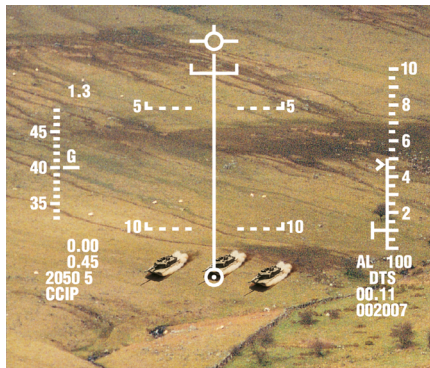
Terrain Referenced Navigation



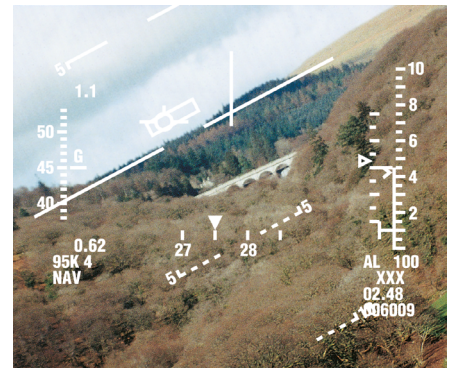
Predictive Ground Collision Avoidance System



Obstruction Warning and Cueing



Passive Air to Ground Ranging



Database Terrain Following

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