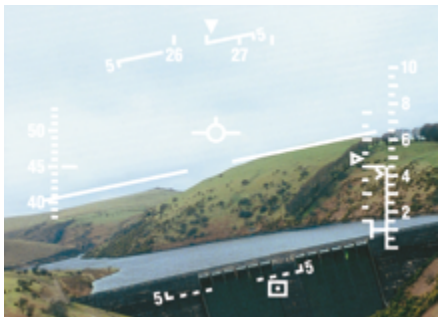
TERPROM® DIGITAL TERRAIN SYSTEM

MISSION PROVEN, GPS-DENIED TERRAIN REFERENCED NAVIGATION

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



A downside of traditional, forward-looking radar is the possibility that its forward electronic emissions could alert an enemy. Our TERPROM® Digital Terrain 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 uses stored digital terrain elevation data, inputs from the aircraft's navigation system and radar altimeter to produce a highly accurate terrain reference navigation solution. Using this capability and having been designed specifically for military aircraft, TERPROM provides state-of-the-art protection against controlled flight into terrain (CFIT).

TERPROM is already in operational service and has been selected by over 18 air forces worldwide for use on many different aircraft types.

TERPROM can be supplied as a software suite supported by appropriate map memory storage, as a single module for installation in existing equipment or as a self-contained line replaceable unit (LRU).

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
- Obstruction warning and cueing
- Database terrain following
- Passive target ranging
- ATAC (Advanced Terrain Avoidance Cueing)

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KEY FEATURES

Terrain referenced navigation

- Accurate, drift-free navigation relative to an on-board terrain database
- Accuracy comparable to GPS
- 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
- Does not rely upon continuous radar altimeter inputs
- Operates throughout entire flight envelope of the aircraft
- Scans ahead in the terrain database and predicts appropriate avoidance maneuver

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

Passive target ranging

- Three modes available: horizontal, co-ordinate and line of sight
- Supports low level drops or intelligence gathering

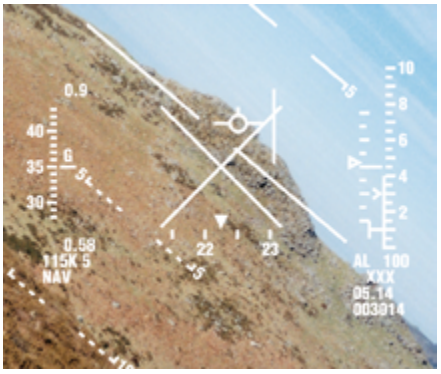
LRU options

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

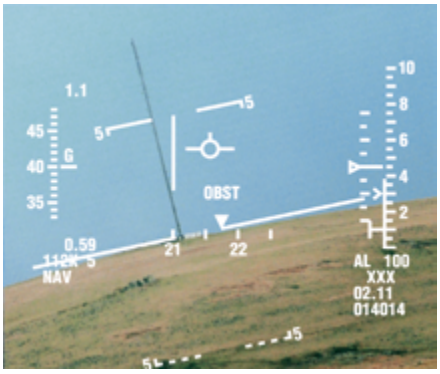
Database terrain following

- Passive terrain following capability
- No active sensors or forward emissions
- Awareness of the terrain beyond the immediate horizon enables the aircraft to follow ground contours more closely

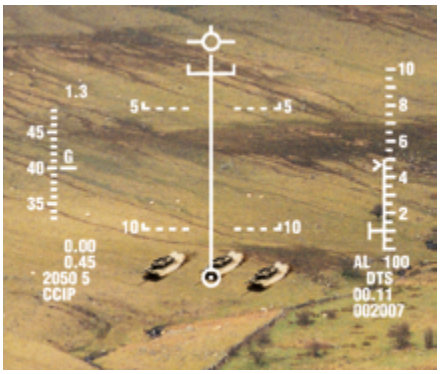
Terrain referenced navigation



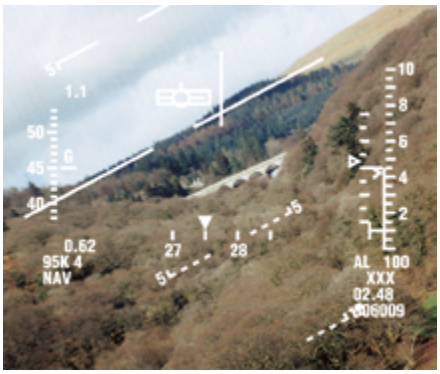
Predictive ground collision avoidance system



Obstruction warning and cueing



Passive target ranging



Database terrain following

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