



TERPROM®

Digital Terrain System

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. It uses stored digital terrain elevation data, inputs from the aircraft's navigation system, and Radalt to produce a highly accurate Terrain Reference Navigation Solution. Utilising this capability and having been designed specifically for military aircraft, TERPROM® provides state-of-the-art protection against Controlled Flight Into Terrain (CFIT).

TERPROM®, already in operational service, has been selected by over eighteen 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).



UTC Aerospace Systems

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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 manoeuvre

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

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

Passive Target Ranging

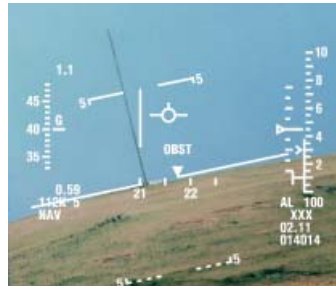
- Three modes available: horizontal, co-ordinate, and line of sight
- Also supports low level drops or intelligence gathering



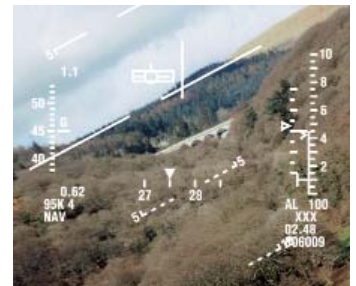
Terrain Referenced Navigation



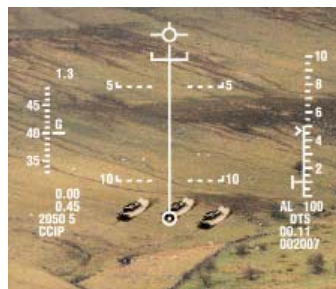
Predictive GCAS



Obstruction Warning and Cueing



Database Terrain Following



Passive Target Ranging