1.5. EUT Exercise Software

Operational Description：

The EUT has the fast acquisition to 20 parallel satellites and tracking up to 12 satellites.

Its update rate is 1 second and averaged Snap Start 3 sec, averaged Hot start 6 sec, averaged Warm start 38 sec., averaged Cold start 42 sec.

It has Built-in WAAS/EGNOS (Optional for WAAS/EGNOS covered area) for accurate positioning result.

Built-in rechargeable Lithium battery is used for backup ephemeris for quick hot start.

It supports NMEA 0183V2.2 data protocol and user initialization is not required.

Enhanced algorithms provide superior navigation performance in urban, canyon and foliage environments。

The position accuracy is as follows：
A) Non DGPS (Differential GPS)
    Position <10 M at 2D RMS
    Velocity 0.1 meters/second, with SA off
    Time 1 microsecond synchronized GPS time
B) DGPS (Differential GPS) or WAAS / EGNOS ON (Built by demand)
    Position 1 ~ 5 meter, typical
    Velocity 0.05 meters/second, typical
A rechargeable battery sustains internal clock and memory.

It has built-in Magnets which is used on top of the car and　water proof design for all weather.