

## SEARCHMate

GPS based Personnel Locator System

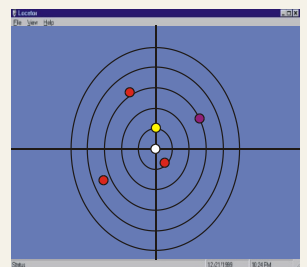
### Overview

SEARCHMate is a computer based system which allows the rescue team to know the location of a person involved in a mishap. The system uses a combination of aids for accurately locating the position of a person, which include Global Positioning System - a satellite based navigation system, audio, visual indication and RF signal.

The system is designed to quickly respond to an emergency situation and can be used by more than one search and rescue parties simultaneously. The user can see the location of the various groups of personnel or an individual on the computer screen itself. SEARCHMate doesn't require a special mapping software and works accurately even with scanned 2-D maps.

A log of all the events is maintained by the system. In the personnel kit a distress alert button is provided, which when pressed immediately relays a distress signal to the central controlling location and software automatically starts tracking and logging the movement of this specific person.

Both ground rescue as well as airborne versions are available for mounting in jeeps, helicopters, etc.



## POLMate

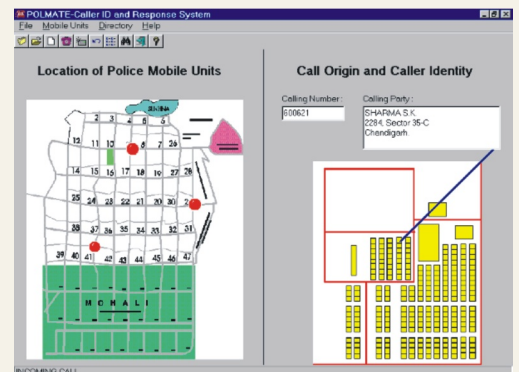
Automatic Vehicle Location and Emergency Response System

### Overview

The POLMate system allows the City police and Law-enforcement agencies to know the location of a distress caller and the nearest patrol vehicle on the screen of the computer. The user can see the location of the patrol vehicles in any area at a specific time. The system is based on the Global Positioning System - a satellite based navigation system, and can be interfaced with most radios being used by security forces or can be provided as a complete package.

POLMate is designed to quickly respond to an emergency situation and can automatically alert different public safety services. POLMate doesn't require a special mapping software and works accurately even with scanned 2-D maps. The control software is loaded on a PC

located at the command site and works in a user-friendly manner. In case of a distress call the number of the caller and his address is immediately flashed on the screen. The system also identifies nearest police vehicles and nearest Emergency services like Fire brigade, police posts, hospitals and nursing homes, etc.



## Deployment & Operation

The entire system consists of a master control station and multiple personnel kits/vehicle units. The master control station can be static or can be mobile. The personnel kit/vehicle unit consists of a small controller (wearable in case of personnel kit).

**Master Control Station:** This consists of a computer loaded with the 'SEARCHMate'/POLMate application software, a base control box, a GPS receiver and a radio set.

**Personnel Kit/Vehicle Unit:** The SEARCHMate personnel kit/POLMate vehicle unit consists of a radio, a controller weighing around 100 grams and a GPS receiver.



## Advantages

**Know position of all your Personnel/Patrol vehicles in Real Time**  
SEARCHMate : The system employs multiple aids: GPS for accurate coordinate indication, audio indication for directional assistance, and optional visual indication for quick home-in helping you track your most valuable resource most efficiently.

POLMate : Provides the City Law Enforcement agency with a graphical picture of location of all its patrol vehicles, along with vehicle registration number, ensuring greater "Patrol Party compliance," and better decision making.

### Faster Response Time

SEARCHMate : The master control station could be jeep mounted or in a helicopter, helping the Search and Rescue party use the tracking aids till the last meter of the search.

POLMate : The nearest vehicles to a site of Emergency can be identified, and directed to the location, thereby ensuring fastest response time

### Save and Replay Events for Administrative and Training purposes

The power and flexibility of software-based systems in your hands. Any Search and Rescue operation is stored in a database, helping you use the same for administrative and training purposes.

## Specifications

PC : PIII 500 MHz, 64MB RAM or higher  
Radio sets : Walkie Talkie/Mobile/Analog/Digital/Freq.Hopping  
GPS : Sirf II compatible GPS Module  
Power : < 6 Watts

### Master Control Unit

Dimensions : 15cms x 10cms x 6cms  
Weight : 250 gms

### Remote Unit

Dimensions : 10cms x 6cms x 3cms  
Weight : 100 gms

Operating Temp. : -15 to +55 degrees Centigrade  
Storage Temp. : -25 to +85 degrees Centigrade

## Important Features

Name/ID based depiction of each personnel/vehicle on the Master Station screen

Query facility to determine location of a specific individual/vehicle

Auto zoom-in and zoom-out

Upto 128 personnel/vehicles can be tracked per system; expandable on user demand

Audio indication for directional assistance (SEARCHMate Only)

Optional visual indication for quick home-in (SEARCHMate Only)

State-of-the-art technology mainly based on software

Selective or collective tracking of personnel/ vehicles possible

Save and replay events for administrative or training purposes

Automatic or manual health check for personnel kits/vehicles unit as well as Master Control unit

Battery powered control and personnel units

For further information, contact :

