EASAMS' INTEGRATED SURVEILLANCE AND SECURITY SYSTEMS

Security systems development is expanding to meet the needs of improved security worldwide. Security equipment and systems are becoming more complex with facilities designed-in to make the system more secure in terms of outside interference. Centralised computer control and integration of the various system elements is necessary as the system complexities increase.

With increasing crime levels and given the high costs of replacement, manufacturing and building, major assets in the public and private sectors need an appropriate level of security protection. This includes the protection of information facilities and environments.

Using its systems expertise, EASAMS has designed and developed a modular security system that can be tailored to suit a particular user's requirement and can be assembled from available market products using cost and performance considerations.

SYSTEM ELEMENTS

● **Intrusion Detection**

This covers protection for perimeters, areas, buildings and facilities using sensor techniques including vibration, inertia, seismic, microwave, infra-red, optic pressure, magnetic and sonar.

● **Surveillance**

This covers closed-circuit television surveillance sited locally or remote, fixed or mobile, monochrome or colour, and using such facilities as wide angle, zoom, low light, slow scan, thermal image, sector scan and infra-red.

● **Access Control**

This covers protection of access to areas, buildings, office facilities and cabinets using card readers, touch tabloids, identity scan (voice/photo/fingerprint) and movement.

● **Hazard Detection**

This covers detection of hazards associated with metal, sound, gas, explosives and fire using magnetic, microphone, geophone, hydrophone and sniffer devices.

SYSTEM ASPECTS

● System Central Control Facility

In large complex security systems, particularly where the various system elements are spread over considerable ground areas, a centralised operational control facility is desirable to control, communicate, monitor and react on a total system basis to any threat. Such control environments contain the system Man-machine Interfaces (MMIs).

● Office Control Facility

Within the security system, specially defined control facilities may be required that are functionally connected with the central control facility. The modular design of the system is such that any facility can be separated from the central control facility or duplicated in another location.

● Central Control Equipment Support Facility

In complex systems, the bulk of the electronic control and processing equipment is usually separated from the MMIs and housed in an environmentally protected, secure location for ease of maintenance and control.

SECURITY CONTROL ELEMENTS

● Computer Systems
  ● System element links
  ● Access control identity scan
  ● Automatic warnings and reactions
  ● Mimic status control
  ● Personnel data files
  ● Miscellaneous data files.

● Communications Systems
  ● Ship-to-shore links
  ● Ground-to-air links
  ● Ground-to-base mobile links
  ● Building-to-building links
  ● Office-to-office links.

● Mimic Display Systems
  ● System status
  ● Security classification status
  ● Hazard warning
  ● Area control
  ● Traffic control.

● Power Systems
  ● Main grid supplies
  ● Generator supplies
  ● Battery supplies
  ● No-break facilities.

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