



Technologies Group

DELIVERS THE PROMISE

COMMUNICATIONS FIRE & SECURITY



- Turnkey Projects
- Consultancy
- Budgetary Proposal
- Project Management
- System Design and Integration
- Installation and Commissioning
- Documentation
- Training
- Project Finance
- Technical Support and Maintenance



Monogram Technologies Group consists of a number of companies with more than 30 years experience in turn-key projects and is proud to announce its emergence as a global player in the telecommunication, fire and security markets.

Monogram have been engaged in design, manufacture, and installation of advanced technology products and systems and have supplied equipment for operation all over the world including environments as diverse as the Sahara desert and the Falkland Islands.

MONOGRAM TECHNOLOGIES GROUP IS PROUD TO ANNOUNCE ITS EMERGENCE AS A GLOBAL PLAYER IN THE TELECOMMUNICATION, FIRE AND SECURITY MARKETS.

Monogram has a successful project engineering and management team with strengths in Studies, Design, Procurement, Installation design, contracting and all of the engineering and financial aspects of total project management.

Monogram can offer value added services which will save your money, resources, and headaches - and smoothly get your communication, fire and security systems up and running in a shorter time. We can simply customize our offers to suit your needs and budget.

Monogram meets the highest quality standards of ISO9001:2000 and is a fully qualified supplier to many national and international telecom, oil and gas, utilities and transport companies.

Monogram Technologies Group includes well known and long established companies such as:

- **Intelligent Security Ltd** – high level integrated security systems and developed solutions
- **Intelligent Fire Systems Ltd** – fire prevention and detection specializing in internal high spaces and outdoor solutions
- **Sedgewall Communications Group Ltd** – design, manufacturing and system integration of communication equipment including radio and paging systems
- **Fulcrum Systems Ltd** – voice technology products and solutions, including radio, headsets, telephony, VOIP etc.
- **Fulcrum Maintenance Ltd** – service, maintenance and repair of telephony products
- **MAL Information Systems Ltd** – paging based systems for emergency services
- **Ashcom Systems Ltd** – turnkey supplier of total communications systems worldwide
- **Avionic Systems (Heathrow) Ltd** – radar, voice and visual recording systems and products.

CONSULTANCY

PROJECT MANAGEMENT

Monogram specializes in providing professional communication, fire and security systems engineering and management resources.

Monogram provides project management for projects involving telecommunications, fire and security. The project management can be extended to all aspects of network realization including system integration, network planning, system planning, site acquisition, site construction, system installation & commissioning, operation & maintenance and logistics.

The project management can be provided together with a TURN-KEY order or independently.

Know How in System Integration and the configuration of Local, Wide and Metropolitan Area Networks makes **Monogram** an ideal partner for the builders of private and public networks.

Monogram is a flexible contractor/partner for management and consultancy.

Monogram offers installation and commissioning of all supplied telecom, fire and security equipment.

Summary of the services offered by **Monogram** are:

- Project Identification and Definition
- Conceptual Design
- Preliminary Engineering
- Soils and Materials Survey
- Site Selection
- Feasibility Studies
- Design Evaluation
- Detailed Engineering
- Contracts Documentation
- Construction Drawings
- Shop Drawings Review and Detailing
- Consultation and Advice During Construction
- Bid Evaluation and Award
- Contractor's Quality Assurance/Quality Control Services
- Construction Monitoring and Supervision
- Construction Management
- Cost Estimating
- Planning and Scheduling
- Total Project Management



Project financing may be the way forward for funding new projects. **Monogram** is able to arrange finance for governmental projects.

PMR

PMR SYSTEMS

Monogram is a fully experienced designer and integrator of the most comprehensive line-up of PMR VHF, UHF systems.

Monogram offer complete planning for a PMR system. We are able to adjust to any PMR/TETRA system, once sufficient technical specification of the project is provided

TETRA is the first open digital professional mobile radio (PMR) standard in the world, with many manufacturers supplying network equipment and/or terminals. Many aged PMR systems currently in use are ripe for replacement as it becomes increasingly expensive to maintain the old networks. TETRA users can make group calls, scan groups, send emergency calls and communicate in push-to-talk mode with a very fast call set up. Data applications can effectively build on these capabilities.

MONOGRAM IS A FULLY EXPERIENCED DESIGNER AND INTEGRATOR OF THE MOST COMPREHENSIVE LINE-UP OF PMR VHF, UHF SYSTEMS.

Monogram is able to conduct the Site Surveys and Propagation Studies to find the optimum system parameters and specifications for all radio applications including radio Links, Point-To-Point, Point to Multipoint, Repeaters and regulator stations.



Monogram is able to offer the most reliable and cost effective solutions and systems according to the Site Survey results or customer required specification. These include:

- Hand-Held Portable
- Fixed and Mobile Two-Way Radios
- Base Stations and Repeaters
- Conventional & Trunking systems using MPT 1327 and MAP 27
- TETRA Network and terminal equipment
- Dispatcher, Radio Controllers and regulator stations for almost any required configuration.
- Antennas, Feeders, Line Accessories and Parts
- Leaky Feeders and indoor radio communications systems
- Analogue and Digital Voice recording System.



RADIO PAGING

RADIO PAGING SYSTEMS

Monogram combines leading paging products with the advanced technology to design an integrated system to ensure success handling your critical communications.

The systems provide immediate and cost effective notification to your staff for increased productivity, reduced down-time and improved communications.

Monogram is able to provide the most cost effective solutions for:

- Voice only Pagers
- Alphanumeric Pagers
- Voice and Alphanumeric Pagers
- One way and Two way pagers
- Intrinsically Safe Pagers

Monogram has experience in providing solutions for Wide Area Paging. Installations have been designed and installed in the UK and Overseas.

Monogram has provided many sites with Local Area Paging systems. These include Hospitals, Power Stations, Oil Refinery sites, Transport Distribution Depots and many more.

A Local Area is essentially defined as one site. The size of the site can vary enormously. Some sites require more than one transmitter to achieve as near to 100% cover as is possible. Others can be just a small office setup or Hotel and Restaurant.

It is well established that logistic efficiency is greatly improved in distribution depots by directing vehicles and prime movers to specific site locations by paging rather than Public Address (PA) systems. PA can be a problem where the depot is close to domestic estates due to noise. Pagers do not present that problem.



MONOGRAM HAS PROVIDED MANY SITES WITH LOCAL AREA PAGING SYSTEMS. THESE INCLUDE HOSPITALS, POWER STATIONS, OIL REFINERY SITES, TRANSPORT DISTRIBUTION DEPOTS, AND MANY MORE.



MICROWAVE

MICROWAVE SYSTEMS

THE MONOGRAM MICROWAVE RADIO SYSTEMS ALLOW USERS TO CONTINUE OPERATION WITHOUT ANY MODIFICATIONS TO EXISTING FREQUENCY ALLOCATIONS.

Monogram designs, integrates and supplies Point to point or Point to multi-point microwave radio systems and accessories for broadcasting, telecommunications, oil and gas and government applications.

The planning consists of microwave link design, link routing and capacity planning. The site and path survey is done together with LOS planning. The quality performance and availability targets are calculated after consideration of multipath propagation, special radio meteorological effects and interference.

Monogram proposed Microwave Radio Systems are designed to provide high quality SDH/PDH radio network operating in frequency bands from 1.5 to 34 GHz.

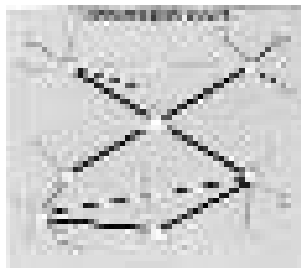
The most efficient modulation techniques are used in full compliance with standard RF channel spacing as recommended by ITU-R.

The **Monogram** Microwave Radio Systems allow users to continue operation without any modifications to existing frequency allocations.

We design the networks according to customer-specific requirements. Network Capacity, Costs and Redundancy are considered in the light of expected market developments and overall operator strategy.

Monogram completes the final system design parameters to obtain the following information:

- Radio Type (Power Output, MHSB, Forward Error Correction, Space Diversity, Frequency Diversity, etc.)
- Frequency Band
- Antenna Size
- Cable Type
- Frequency Channel
- Final Routing Diagram
- Path Calculation
- Tower Profile to indicate antenna heights
- Rack Profile
- Floor Plan
- Radio installation Information
- Power Consumption
- Growth Consideration



HF SSB

HF SSB SYSTEMS

Monogram has gained extensive knowledge and experience in the design and integration of a wide range of applications and solutions for the far remote communication on HF SSB systems using the Sky Wave (Ionosphere layer), Ground Wave or Direct Waves.

The capabilities of the modern HF radio technology are similar to satellite systems, but the cost savings are considerable being free-to-air with much less initial capital outlay for both mobile and base communications units.

Monogram is able to provide reliable and cost effective solutions over the long distances as far as several thousand kilometers. The following options could provide the answer to your communication requirements:

- **Voice Solution**

Using fixed, vehicular and portable equipment reliable and effective voice communication network can be achieved even in remote areas.

- **Facsimile Solution**

The fax solution can with a standard fax machine achieve efficient and error-free facsimile transmission in remote areas.

- **Email Solution**

An efficient and effective email service can be provided to organizations without a telephone infrastructure. The benefits of these are the capability to communicate with conventional E-mail users, Internet connectivity and compatibility with most popular commercial E-mail packages.

- **GPS Location and Tracking Solutions**

- **Interconnect Solution**

Monogram is able to offer a range of products that enable interconnection between HF transceivers and the following:

- Telephone networks - to make and receive telephone calls on HF transceivers
- UHF/VHF networks - to support mixed HF and VHF/UHF radio networks
- UHF/VHF networks - to provide a long-distance HF trunk connection between two UHF/VHF networks

Monogram is able to provide modern, viable and cost-effective options for managing your fleet, occupational health and safety, security or field coordination.

Both vessels and vehicles fitted with a GPS receiver and a HF radio can be tracked and managed over distances of several thousand kilometers.

MONOGRAM IS ABLE TO PROVIDE MODERN, VIABLE AND COST-EFFECTIVE OPTIONS FOR MANAGING YOUR FLEET, OCCUPATIONAL HEALTH AND SAFETY, SECURITY OR FIELD COORDINATION.



AVIATION

AVIATION SYSTEMS

NDB and ADF in aeronautical navigation

Monogram has reputation as a supplier who provides the best technical solution for the radio applications of the ground based radio navigation aids for Marine and Civil aviation needs.

Applications of Monogram supplied NDB equipment are numerous and include land based aviation beacons, ship beacons, oil platform beacons, oil pipeline location beacons, differential GPS data correction beacons and portable and fixed military variants.



Navigation aid beacon

Air to Ground Radio Systems

Monogram is a Turn-key Contractor of VHF/AM and UHF/AM base stations. Incorporating the latest technology, Monogram provides users with the best tools for safe and easy Air-To-Ground communication to suit the majority of airport applications.

Monogram has extensive experience in providing various types of remote control units for both VHF and UHF radios. The units are capable of handling audio and data over a distance, including a remote control unit that makes it possible to control and monitor the radios via a Windows based PC program.



OUR ENGINEERING TEAM CONTINUES TO DESIGN AND INTEGRATE NEW SYSTEMS TO SUIT CUSTOMER NEEDS FOR DIFFERENT APPLICATIONS AND DIFFICULT LOCATIONS.



MARINE RADIO

MARINE RADIO SYSTEMS

Monogram offers a wide variety of marine communications and navigation products.

Monogram proposed marine radios are designed with safety in mind. If you are in distress, calls can be received not only by the Coast Guard but also by ships which may be in position to give immediate assistance. A marine radio also helps ensure that

storm warnings and other urgent marine information broadcasts are received. The Coast Guard announces these broadcasts on VHF channel 16. Timely receipt of such information may save your life.

Additionally, your VHF marine radio can be used anywhere around the world.



Monogram can supply all the items needed to install and run a Marine and Navigation telecom system, therefore we are your single source supplier for almost everything you need. Systems and equipment for different applications including:

- GMDSS MF/HF and VHF radio equipment
- Radio telephony in MF/HF & VHF bands
- MF/HF communication in accordance with distance
- DSC in MF/HF & VHF bands
- NBDP in MF/HF & VHF bands
- Watch receiver on 2182 KHz, Dual Watch, Triple Watch
- NAVTEX
- MSI in HF
- INMARSAT C & A
- DSC radio beacons
- COSPAS-SARSAT radio beacon
- INMARSAT radio beacon
- Transponder, SARTs



OIL AND GAS

OIL AND GAS SYSTEMS



Monogram has worked in the Oil & Gas Onshore/Offshore industry since the early seventies and delivers products and services to oil and gas industry throughout the world.

Monogram is a specialist company supplying all required Communications Systems for Onshore and Offshore Oil and gas plants.

Monogram has long been among the most successful suppliers to the African Oil Companies. This experience gives us increasing success with our products and systems in key Onshore/Offshore markets around the world.

We manage teams of engineers with years of experience in Oil & Gas telecom projects around the world.

Applications include:

- Onshore-Offshore Radio Links
- Fiber Optic Terminal Equipment
- Intrinsically Safe Handhelds and Equipment
- Intrinsically Safe Industrial Telephones
- Explosion Proof Communications Equipment
- Paging /Intercom and PA Systems
- Fire Telephone Systems
- VHF Marine radios
- HF SSB Radios
- Non-Directional Beacons
- Air to Ground Systems
- Air-Band Handhelds
- Entertainment Systems
- Fire resistance/retardant cables
- Armoured Cables



HAZARDOUS

HAZARDOUS AREA

Monogram designs, integrates and supplies a diverse range of communications solutions to Hazardous Area applications. **Monogram** proposed equipment provides a safe, flexible, economical and efficient system for every area of an industrial site.

Historically, communication in potentially hazardous environments has been a struggle between safety and effectiveness. Naturally, safety always won. **Monogram** hazardous environment equipment ends the trade-off by providing unquestionably safe yet highly effective communications.

Our hazardous area equipment gives you safety, quality, reliability, flexibility and capabilities all in one system - without compromise.

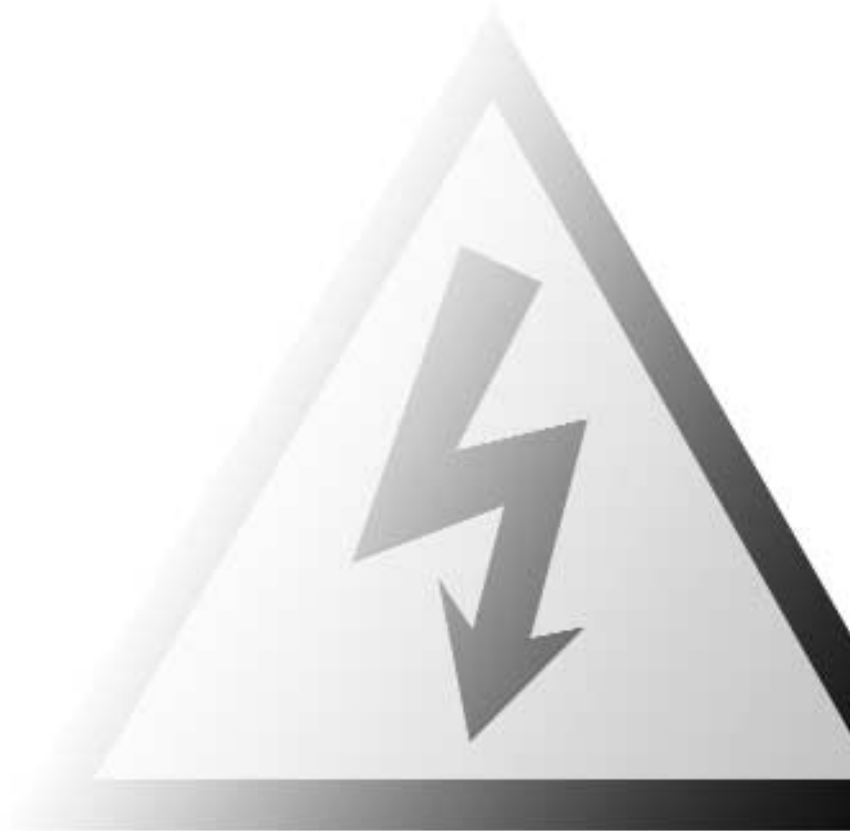
Monogram provides Public Address / General Alarm systems for Industrial, Petrochemical or Offshore applications where a highly reliable, self monitored, flexible, site wide paging and alarm system is required. A system can be configured for single, redundant or fully duplicated operation and is software configurable to meet customer specifications in order to comply with stringent safety regulations.

Alarm inputs can be integrated from Fire Detection, Gas Detection or Process Safety Systems and broadcasted using customer selected alarm tones, customized digitally recorded voice messages or a combination. The system may be configured for zoned paging and alarm distribution to only those areas or group of areas affected.

**OUR HAZARDOUS AREA
EQUIPMENT GIVES YOU
SAFETY, QUALITY,
RELIABILITY, FLEXIBILITY
AND CAPABILITIES ALL IN
ONE SYSTEM - WITHOUT
COMPROMISE.**

Monogram is able to provide the following systems and services for the hazardous areas:

- Public Address / General Alarm (PA/GA)
- Intercom Systems
- Explosion Proof Telephones
- Intrinsically Safe Mobile Phones
- Loudspeakers
- Voice Alarm/ Voice Evacuation
- Hazardous Area Paging
- Explosion Proof Paging
- Talk Back Systems
- Explosion Proof Boxes & Pressurization Equipment
- Junction Boxes & Installation Equipment
- Platform Equipment
- Alarm Annunciations, Sounders and Beacons.



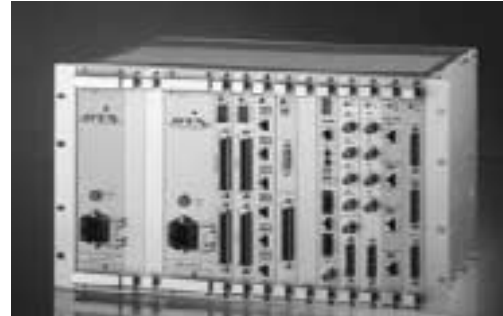
FIBRE OPTICS

FIBRE OPTIC SYSTEMS

Point to point communication can be carried out using fibre optic cables. Fibre optic cables can be used on parts of the network with high performance requirements, or where the risk of electrical and electromagnetic interference is high.

Monogram designs, integrates and supplies a broad range of high performance fibre optic termination equipment and systems for the optical network.

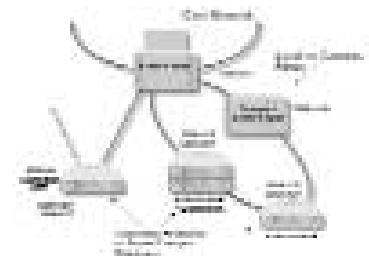
Our proposed products enable emerging and leading communications equipment to deliver optical networking systems to the rapidly growing long haul, metropolitan and last-mile access segments of the communications network.



Strong demand exists for all equipment associated with computer networking; particularly network switches and equipment associated with accessing the Internet.

Monogram proposed equipment covers termination of multimode fibre using Hot Cure, Cold Cure, and light crimp plus techniques. We offer Fibre optic link design, power budget, rise time budget and costs, link components; Rise-time, bit-rate and BW; Link design using different optical termination and management systems including SDH, SONET, ATM, PDH, PON, HDSL, OTN, etc.

Fibre Optic Networks today must support a variety of traffic types, including legacy traffic based on regional SONET ring structures that require multiple traffic adds/drops (that is, voice, asynchronous transfer mode [ATM], frame relay) but must also support high-speed Internet backbones that are typically express lanes that require little add/drop multiplexing.



DECT/PABX

DECT/PABX SYSTEMS

Monogram designs, supplies and supports a full range of PABX business telephone systems as well as DECT systems, designed for all small and medium size companies.

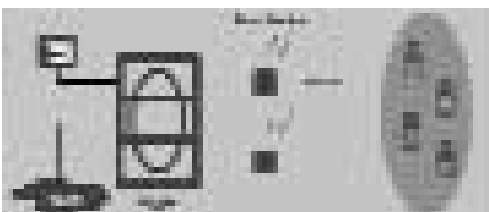
DECT (Digital Enhanced Cordless Telecommunications) and GSM (Global System for Mobile Communication) serve different purposes. The GSM-System is developed for public use but it is not able to carry sufficient traffic in hot spots like inner cities or airports because of its large cell structure.

DECT is able to carry higher traffic because of its smaller cells as it has been developed for private or telepoint use. Because of growing traffic in the public systems and for protection of investment, it will be necessary to combine both of the existing mobile systems in the future. The mobility management methods of GSM are fully standardized. In contrast, the DECT mobility management has been left open for developers to interpret. With focus on inter-working units, it is obvious that the mechanism of the GSM mobility management could be adopted for use in DECT.

DECT IS AN INTERNATIONAL FLEXIBLE DIGITAL RADIO ACCESS STANDARD FOR CORDLESS TELEPHONY PROVIDING EXCELLENT SOUND-QUALITY AND SUPERIOR SECURITY.

Monogram supplied DECT system offers superior security against eavesdropping and through the digital technology it offers excellent sound quality, which means no noise and no interference.

The system provides an on-site digital cordless telephony for commercial and industrial premises.

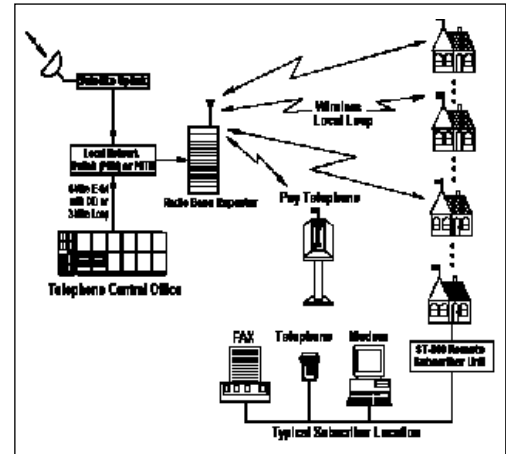


WLL SYSTEMS

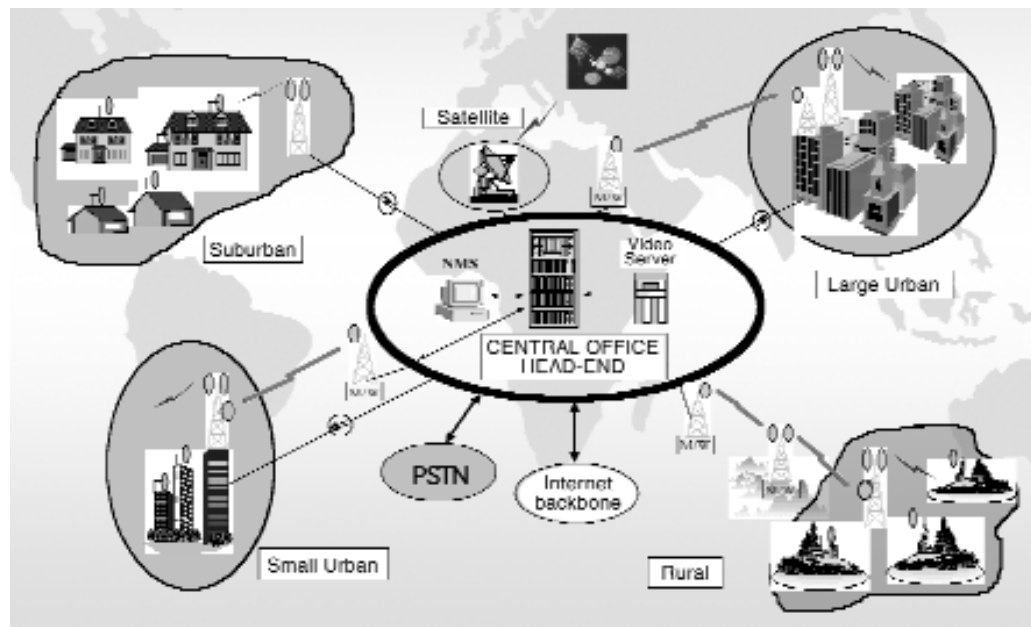
Wireless Local Loop (WLL) technology has rapidly advanced over the last few years. WLL systems now encompass VSAT, WLAN, CDPD and many other advanced techniques.

WLL is a system that connects subscribers to the public switched telephone network (PSTN) using radio signals as a substitute for copper for all or part of the connection between the subscriber and the switch. This includes cordless access systems; proprietary fixed radio access and fixed cellular systems.

In many developing countries there is tremendous demand for new business and residential telephone service. More and more operators are looking to wireless technologies to rapidly provide thousands of new subscribers with high-quality telephone service at a reasonable price.



- Existing landline operators can extend their network with WLL
- Cellular operators can capitalize on their current network to deliver residential service with WLL
- New service providers can quickly deploy non-traditional WLL solutions to rapidly meet a community's telephony needs.



VEHICLE TRACKING

FLEET MANAGEMENT

Monogram Automatic Vehicle Location tracking solution provides 'real-time' management oversight to any company with a mobile workforce, regardless of size.

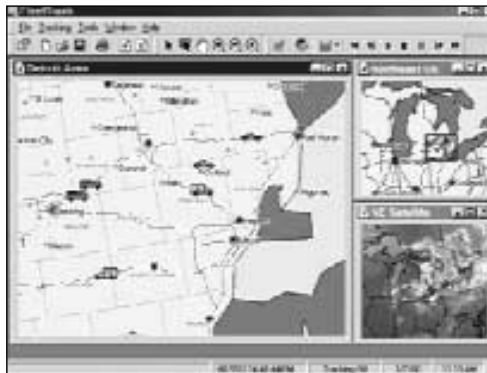
Monogram presents the new version of the MAP27 software package. This system is designed for radio dispatch operations in standard MPT1327 radio Trunking networks.

Fleet management system controls fleets over-the-air in MPT1327 radio Trunking network by means of standard MAP27 interface.

Monogram provides a comprehensive, full-featured vehicle tracking and mapping system. The system is ideal for tracking large or small vehicle fleets via radio, cellular, satellite or packet communications

Monogram's AVL & GPS system incorporates GPS receivers and other tracking components to enable law enforcement, public safety, military, industrial and commercial personnel to track the vehicles.

Monogram uses the latest in GPS-based technology to provide quality, custom applications to customers in a variety of fields, including law enforcement, security, emergency medical response teams, mass transit and fleet management.



The system is powerful, simple and affordable and can provide reports to suit your needs, covering:

- Emergency Voice or Data Communications
- Local, Regional and/or National Coverage
- Text Dispatch System
- Supervising and monitoring of VIP trips

Everything you would expect in a GPS Tracking System, plus reports that allow you to keep track of billable hours, automatically confirm employee hours and monitor your mobile workforce's adherence to assigned schedules.

MONOGRAM PROVIDES A COMPREHENSIVE, FULL-FEATURED VEHICLE TRACKING AND MAPPING SYSTEM.

Using the latest digital NOAA charts, our Vessel Tracking software and a variety of communications options, you can track your marine fleet locally, regionally or worldwide. This vehicle tracking system is optimized for commercial shipping and fishing operators and can be easily tailored to a wide range of vessel management and monitoring applications.



CCTV

CCTV SYSTEMS

Monogram supplied CCTV equipment covers the components necessary for viewing at the surveillance site.

Depending on the application, you can select something as basic as a camera and lens for fixed viewing or a complete system that allows for remote positioning and view of a large area.

Clear observation and accurate monitoring are essential if you need to keep an eye on your business. **Monogram** offers a comprehensive range of colour and black & white systems and accessories for a wide variety of observation and security monitoring applications in virtually any type and size of business.

Monogram proposed observation systems would be designed to limit installation costs and reduce down time to an absolute minimum.



The **Monogram** proposed CCTV systems has been designed specifically for the professional surveillance market where high performance, high quality and flexible product configuration is required.

Monogram solutions for CCTV systems are available with all connections provided on two part connectors for ease of installation. No user adjustments are required as automatic control circuitry is featured throughout. Compatibility with existing systems allows easy expansion or upgrade for multimode systems where additional single-mode long distance camera points are required.



MONOGRAM OFFERS A COMPREHENSIVE RANGE OF COLOUR AND BLACK & WHITE SYSTEMS.



FIRE DETECTION

FIRE SYSTEMS

Monogram has an in depth experience in the design, supply and installation of state of the art fire detection systems to a wide range of industries.

As we are not limited to a specific equipment manufacturer **Monogram** will design the system that is most effective in meeting your specific requirements.

Building on our telecommunication skills **Monogram** offer the knowledge and skills necessary to provide the area networking alarm systems that modern industry requires for remote signalling.

Monogram has experience extending across Oil and Gas, Power Generation, Waste Recycling as well as commercial interests such as warehousing and commercial property

Each industry and site have particular requirements and we believe in a thorough site survey and discussions with relevant site operations personnel before submitting our proposals.

As with all technology Fire detection is nowadays a fast moving field and our engineers are familiar with emerging technologies.



Typical Technologies	Applications
UV/IR Digital Fire Detectors	Oil, Gas & Petrochemical Facilities, Gas Turbines, Compressor Stations, Silane & Hydrogen Gas Storage, Aircraft Hangers, Warehouses
IR/IR Digital Fire Detection System	Liquid Paint Spray Lines, Powder Coating Booths, Drying Ovens, Aerosol Filling, Power Transformers, Engine Test Cells
Smoke Detection Systems	Power Generation Plants, Paper Mills, Tunnels, Aircraft Hangers, Chemical and Petrochemical plants, Toxic Waste Sites, Offshore Oil and Gas installations



SECURITY

SECURITY SYSTEMS

Monogram also provides a range of security technologies ranging from industrial perimeter protection, prison perimeter protection to terrorist counter measures for Government Agencies.

Our staff have a wealth of expertise built up over many years of worldwide experience in the security industry.

Again **Monogram's** communications experience reinforces the security division with today's surveillance technology from cameras to access control being TCP/IP enabled allowing the user to define and integrate his security systems into his IT network.

With today's fast evolving technology, no customer wants to be locked into one supplier – just as no supplier wants to be locked into one technology.

Monogram are able to select the most appropriate equipments from around the world to provide solutions that precisely meet customers' requirements.

**OUR STAFF HAVE A WEALTH OF EXPERTISE
BUILT UP OVER MANY YEARS OF
WORLDWIDE EXPERIENCE IN THE
SECURITY INDUSTRY.**



Examples of recent projects our engineers have been involved in are:

- Supply and installation of Heartbeat detection systems for the detection of illegal immigrants.
- Supply and installation of undercar bomb detection systems for Government Agencies.

As well as involvement in specific Turnkey projects **Monogram** also acts as a sourcing and procurement agent where an overseas agency requires discretion.



COMPLETE SOLUTION

WHY Monogram?

Unlike most of the other technology vendors who supply only a portion of a system solution, **Monogram** offers a complete system solution from planning and surveying to installation and maintenance. Thanks to our worldwide reputation for reliability and customer satisfaction, the customer can relax concerning the technical issues of the project.

System Design Consultation

- Detail review of customer's requirement
- Design review meeting with customers including future expansion plans
- Link analysis/Path profiling and system availability calculation

Site Survey

- Consultation of site location plan considering the relevant aspects [i. e. Line of Site for Radio links]
- RF interface analysis
- Antenna height and location
- Local regulation review
- Consultant re frequency co-ordination

AutoCAD drawing and design

- System level diagram
- Construction drawing
- As-Built and final drawing and documentation

Factory Testing

- Factory Acceptance Tests (FAT) to satisfy customer's specifications

Delivery

- Delivery to customer's designated places by utilizing efficient and safe logistics support

Installation and Testing

- Equipment installation and testing by highly qualified engineers

Commissioning

- Ensuring excellent performance
- Meeting design specifications

Training

- On site and classroom training to give the required knowledge to customer's staff
- Covering equipment and system operation and guide to trouble shooting and maintenance.

COMMUNICATIONS, FIRE AND SECURITY SYSTEMS AND SOLUTIONS

Communication Networks:

HF/VHF/UHF Radio Networks, TETRA Infrastructure and Terminals, PABX, DECT, WLL, LAN, Public Address, Intercom and Hot line communications, Analogue and Digital Voice recording System

Transmission Systems:

Fibre Optic SDH/PDH, Point to Point and Point to Multi point Microwave, Radio Links, VSAT Terminals

PMR Systems:

UHF/UHF PMR Radio Systems, Base Stations, Repeaters, Mobiles and Handheld Radios, Regulator Station and Management Systems, Trunked and TETRA Systems, Dispatcher and Management system.

Aviation Systems:

Non-directional Beacons (NDB), Ground to Air Radios

Marine Radio & Navigation Equipment:

GMDSS VHF, MF and HF Radio Equipment, Emergency Position Indicating Radio Beacon, Gyro Compass, NAVTEXT Receiver, Magnetic Compass, Radar AVTEX, INMARSAT C & A.

Site Management Systems:

Intercom and Public Address Systems, CCTV, Control Access Systems, Wireless Monitoring and Control Systems.

Radio Paging Systems:

Date, Voice, One-way, Two-ways, Pager Terminal and Transmitter, Intrinsically Safe Pagers.

Hazardous Area:

Explosion Proof Telephones, Beacons, Speakers, Intrinsically Safe Radios, Intrinsically Safe Telephones.

Fire Systems:

Fire Detection Systems, Smoke Detection Systems

Security and Fleet Management:

Access Control, Vessel Management System, Automatic Vehicle Location (AVL) System, Heart Beat Detection System

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