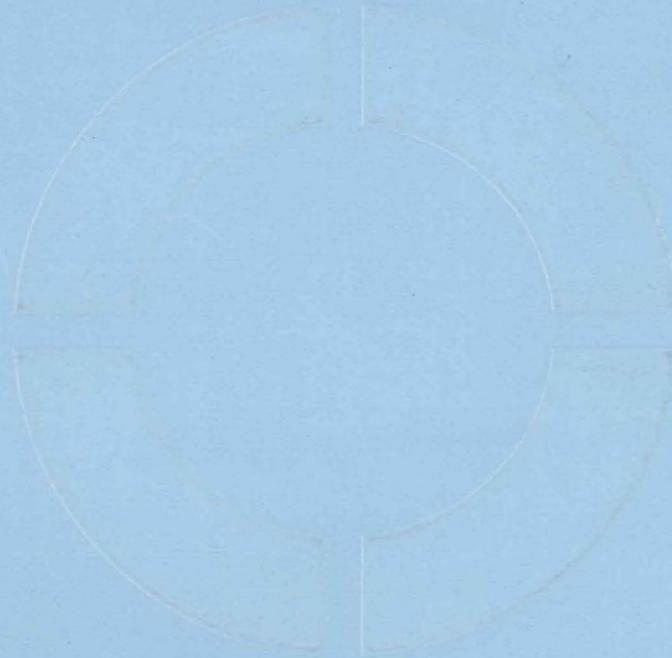


MARCONI
AVIONICS



Sales Directory and Product Guide

1982

Marconi Avionics Limited

head office

Airport Works, Rochester, ME1 2XX, England

Telephone: Medway (0634) 44400 Telex: 96333 MEAROC G Cables: Elliotauto
Rochester

general information

Can be obtained from the Information Officer at Head Office (address above)

sales enquiries

Our business is conducted by trading Divisions, each of which is expert in its own field.

- **To locate a required product or service**, please refer to the alphabetical index (Part 3, white pages). The key shows which Division(s) can supply.
- **If you wish to discuss new requirements**, the Division to contact can be found from:
 - the general description of our capabilities and organisation (Part 1, white pages) or
 - the general description of each Division's business (Part 2, blue pages).
- **To contact any Division**, please refer to the index on page 8 (facing the blue pages).
- **If in doubt**, please contact the Information Officer at Head Office (address above).

after - sales support

Arrangements are usually agreed at the time of purchase. If there are difficulties, however, please contact:

- Airadio Spares and Service Unit (for airborne radio), or
- Aviation Service and Repair Division (for avionics, other than radio or radar), or
- The Division which supplies the product concerned, or
- The Information Officer at Head Office.

The Divisions are listed on page 6.

our capabilities at a glance ...

Flight Control Systems

Stability Augmentation
Autopilots/Flight Directors/Autothrottles
Automatic Landing
Fly-by-Wire
Fly-by-Light
Quadruplex Actuators

Powerplant Systems

Digital Engine Control
Fuel Management
Range/Endurance Computing
Engine Intake Control
Nozzle Control
Fuel Mass Flowmeters

Motion Sensors

Low Airspeed Sensors
Gyros
Accelerometers
Attitude and Heading References

Navigation

VOR/ILS and DME
TACAN
Doppler Systems
Inertial Systems
Automatic Direction Finders
OMEGA
Automatic Map Readers
Stabilised Gyrocompass

Airborne Communications

HF, VHF and UHF Systems
Tactical Systems
Communication Control
Antenna Couplers
Data Link Systems
Communication Systems Integration

Displays and Interfaces

Electronic Head-Up Displays
Electronic Head-Down Displays
Multi-mode and TV Tabular Displays
Situation Displays
Projected Map Displays
Digital Scan Converters
Speech Recognition Systems

Weapon Systems

Digital Head-Up Display Weapon Aiming
Digital Inertial Navigation and Attack
Stores Management
TV Weapon Control

Airborne Computing

Air Data Computers
Task-Orientated Computers
Central Processors
1553B Bus Systems

Airborne Radar

Airborne Interception
Air Combat
Airborne Early Warning
Mapping and Ground Attack

Maritime Surveillance

Sonobuoy Data Processing and Display Systems
Helicopters Hybrid Sonar Processing and Display
Tactical Navigation and Display

Signal Processing

Ship and Submarine Sonar Systems
Specified Acoustic Signal Processors

Airborne Power Supply Systems

Software

Real Time System Software
Computer Aided Design Software
Test Program Software

Automatic Testing

Computer-Controlled Testing Equipment

Electro-optical Systems

LLTV and Thermal Imaging
Missile Guidance, Gathering and Tracking
Secure Command and Video Data Links
Passive Surveillance and Target Designation
Surveillance from Aircraft, Helicopters and RPV's
Industrial Control and Surveillance
Underwater Imaging and Acoustic Signal Processing

Laser Devices

Rangefinders and Target Markers
Carbon Dioxide Lasers, Pulsed and CW
Stabilised Frequency Lasers

Military Surveillance Systems

Battlefield Surveillance Radars
Battlefield Seismic Intruder Alarms
Surveillance Instrument Mounting Systems

Civil Security Systems

Fixed-Site Seismic and IR Perimeter Security
Systems
Access Control
Microprocessor Controlled Data Handling
Closed Circuit and Low Light Television

Offshore Technology

Underwater Exploration Systems
Wellhead Monitoring and Surveillance
Offshore Control and Instrumentation

X-ray Devices

X-ray Generators
Diffraction Equipment and Cameras

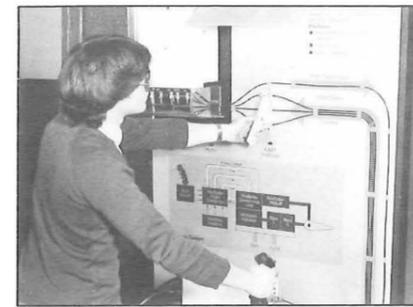
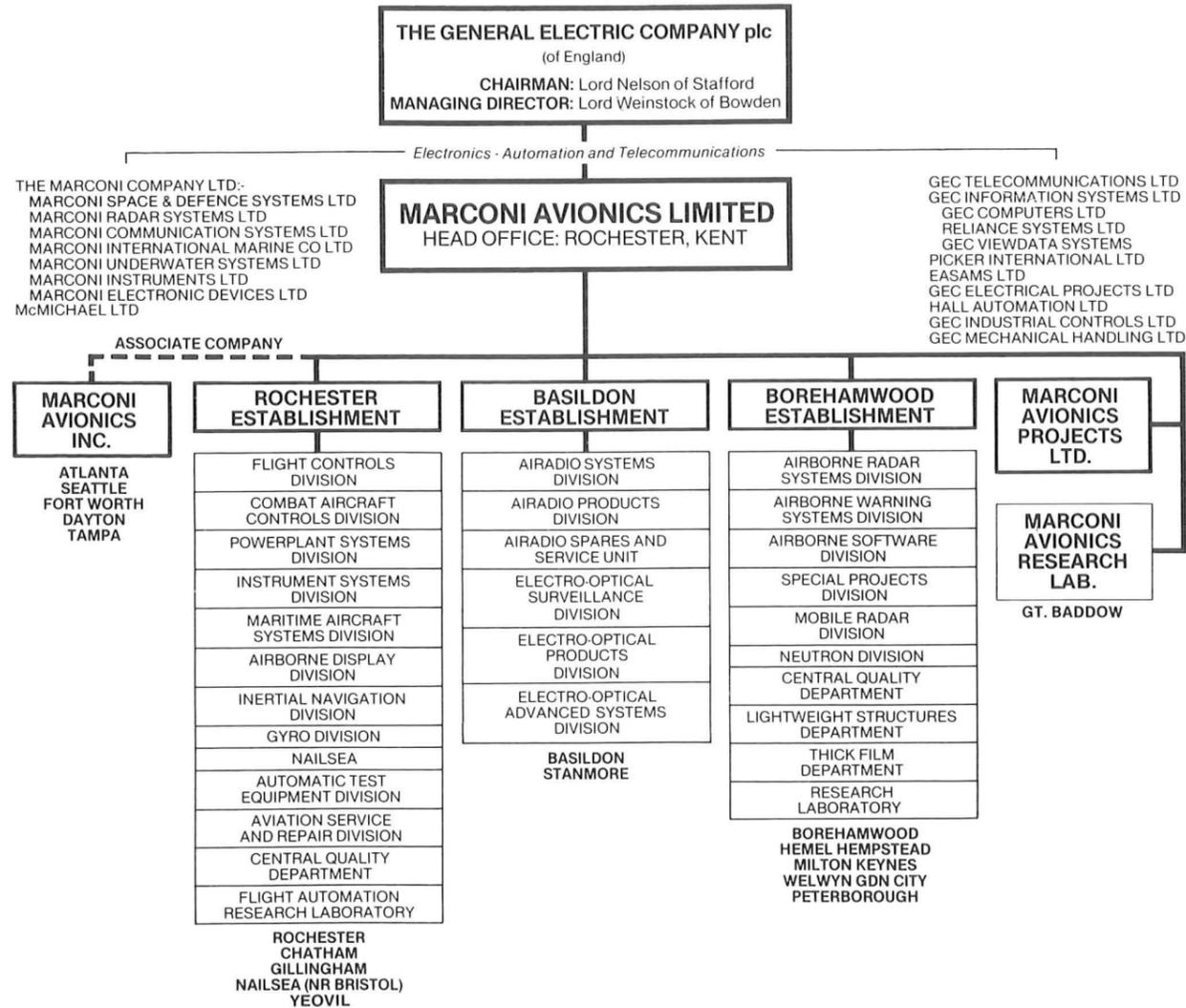
Neutron Devices

Neutron Generators
Activation Analysis and Radiographic Equipment
Neutron Therapy Equipment
Reactor Commissioning Equipment

For full details please see Part 3
(pages 11 to 15)

Part 1

organisation, locations and facilities



One of the many areas of research is optical data transmission. This is an advanced 'fly-by-light' test rig.



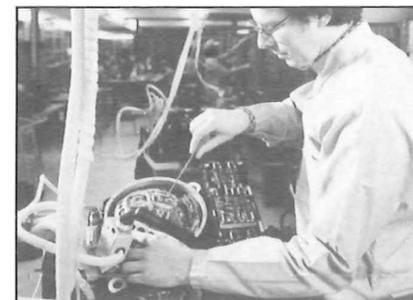
Advanced computer-aided engineering facilities assist development engineers and designers in meeting new requirements quickly and cost-effectively.



Professional engineering skills applied in our factories and on site are the best assurance of quality, reliability and operational safety.



Automatic test equipment is widely used in our production. This one is produced by us and supplied to our customers at home and overseas.



A typical 'clean-room' dedicated to product support.

a world-wide operation with full facilities ...

Marconi Avionics is part of the United Kingdom's biggest electrical company, GEC, accounting for over 10% of its overseas business. Marconi Avionics is also Europe's biggest producer of aviation electronics of all kinds, ground support equipment for the world's civil and military aircraft, and related high technology systems for use on land and at sea.

We are organised to innovate across the whole of our large product range and are an established supplier in some of the world's most competitive markets. Our Divisional organisation enables us to match our service to the needs of individual customers, to meet the most demanding technical specifications and delivery requirements.

The products and services we supply are backed by our full facilities for research, design, development, manufacture, quality assurance and after-sales support.

research

Applied research is carried out by the Flight Automation Research Laboratory at Rochester, the Research Laboratories at Borehamwood and Great Baddow, and the Electro-optical Future Systems Laboratory at Basildon.

These organisations also carry out research and development work for customers, some details of which are described in the Directory (Part 2, blue pages). Our own extensive research facilities are backed by those of the GEC Hirst Research Centre.

design

Every manufacturing Division has its own design teams specialising in meeting customers' requirements. Extensive use is made of computer aids.

development

Engineering development is a service provided by every Division to ensure that our customers' installations are completed on time and to specification. A large proportion of our workforce is professionally qualified – mainly in engineering.

manufacture

Every Division's production organisation is backed by Central Machine Shop services including the latest kinds of automated machinery and assembly techniques.

support

Aviation products are supported by the Aviation Service and Repair Division and Airadio Spares and Service Division. We offer the full range of product support, including manuals, training, warranty administration, reliability guarantees, spares supply and repairs, including exchange schemes, and logistic support 'packages' to individual customer requirements. For support details concerning a specific product, please contact the relevant support or manufacturing Division.

Marconi Avionics Inc. in the United States



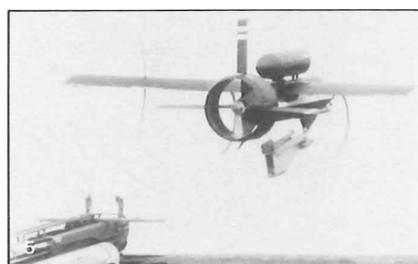
Marconi Avionics Ltd in the United Kingdom



military avionics

Systems we supply include radio navigation and communications, flight and engine control, powerplant test, navigation and weapon aiming, cockpit television, acoustic processing and display, head-up display, fuel measurement, radar, air data and mission systems in general, for every kind of military aircraft. A few examples are illustrated.

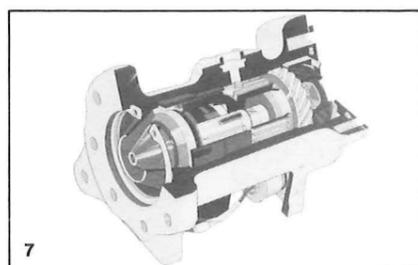
- 1 We are the world's foremost producer of cockpit displays and head-up display/weapon aiming systems. This latest is the holographic HUD for the US Air Force LANTIRN programme.
- 2 The Foxhunter air interceptor radar (illustrated) is fitted to British Tornado fighters, and our air combat radars are also available for export. The Mission System Avionics is the heart of the AEW Nimrod airborne early warning radar system.
- 3 The Jaguar 'fly-by-wire' system has demonstrated the benefits of full computer control for advanced combat aircraft.
- 4 The AQS901 system, installed on anti-submarine aircraft of the Royal Air Force and Royal Australian Air Force, is complemented by the lightweight AQS902 system, in service with the Royal Navy and available for fixed wing aircraft and helicopters.
- 5 Machan, the Marconi Avionics unmanned research aircraft, is a vehicle for proving advanced avionics and air-ground data links.



civil avionics

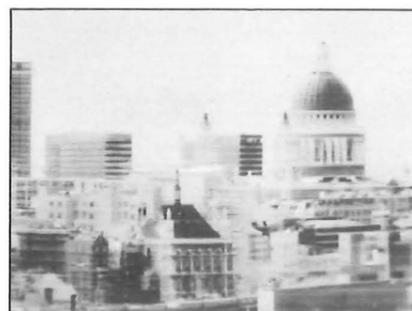
We have been continuously associated with airborne radio systems and instrumentation since the earliest days of air transport. Today we supply the world's airlines with automatic flight control, radio navigation and communications, energy management, electronic displays, ground proximity warning systems and automatic test equipment.

- 6 Boeing airliners all over the world fly our ADF, Doppler navigation, communications and automatic throttle control systems. The Boeing 737 is fitted with our new Doppler Velocity Sensor.
- 7 Fuel flowmeters are fitted to many different airliners.
- 8 The BAe 146 airliner is fitted with our latest communications control system.



electro-optical systems

Daylight and low light television systems, cockpit television, and surveillance systems, including helicopter television and data links, thermal imaging systems for day/night viewing, advanced picture processing systems and stereoscopic television, are examples of our large range of electro-optical systems. The picture illustrated was taken with a viewer built from Thermal Imaging Common Modules.



inertial measurement

Our gimbaled and 'strapdown' systems include the NCS-1 twin gyro platform for all kinds of ships and boats and the 'strapdown' vertical and azimuth reference which uses rugged rate gyroscopes and accelerometers to give precise performance at exceptionally low cost.



security and surveillance

We supply intruder alarm and perimeter protection systems and radar systems such as the ZB298 battlefield surveillance radar and a system for detecting the level of material in storage bunkers. That illustrated was developed for coal mines.



radiation devices

X-ray, Neutron and gas laser devices and systems include X-ray topography and gas laser tubes. We illustrate our 'laser gyro' development.



automatic testing

Our extensive range of automatic testing systems is based on our own use of these and similar equipments. Illustrated is flexible, mobile COMPACT α for testing digital electronics. Our Automatic Powerplant Test system tests gas turbine engines automatically, reducing maintenance costs and simplifying operator training.



offshore oil production

Electrohydraulic systems for subsea wellhead control, telemetry, platform electronics and remote viewing systems, are among the systems we supply to the offshore oil and gas industry. The illustration shows control and monitoring electronics for the BP Magnus field, including 'fail-safe' control pods and quick-release inductive couplers for electrical power and signal connections.

Index

trading divisions and their 'key' codes

Division	Code	Location	Tel No	Telex No
Rochester Establishment				
Airborne Display	A	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96304
Automatic Test Equipment	B	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96246
Aviation Service and Repair	C	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96211
Central Quality Department (R)	D	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333
Combat Aircraft Controls	E	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333
Flight Automation Research Laboratory	F	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333
Flight Controls	G	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	965450
Gyro	H	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333
Inertial Navigation	I	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333
Instrument Systems	J	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400 **	96333
Maritime Aircraft Systems	K	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333
Nailsea	L	2 High Street, Nailsea , Bristol, BS19 1BS	(0272)856511	444791
Powerplant Systems	M	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333

Borehamwood Establishment

Airborne Radar Systems	a	Monks Way, Linford Wood, Milton Keynes , Buckinghamshire, MK14 6LA	(0908)315117	825329
Airborne Software	b	Elstree Way, Borehamwood , Hertfordshire, WD6 1RX	(01)953-2030	22777
Airborne Warning Systems	c	Eaton Road, Hemel Hempstead , Hertfordshire, HP2 7EA	(0442)42141	825230
Central Quality Department (Bw)	d	Elstree Way, Borehamwood , Hertfordshire, WD6 1RX	(01)953-2030	22777
Lightweight Structures	e	Old Parkbury Lane, Colney Street, St Albans , Hertfordshire	(092)76-4757	922989
Mobile Radar	f	Elstree Way, Borehamwood , Hertfordshire, WD6 1RX	(01)953-2030	22777
Neutron	g	Elstree Way, Borehamwood , Hertfordshire, WD6 1RX	(01)953-2030	22777
Research Laboratory	h	Elstree Way, Borehamwood , Hertfordshire, WD6 1RX	(01)953-2030	22777
Special Projects	i	26 Hydeway, Welwyn Garden City , Hertfordshire	(070)73-28511	269404
Thick Film Department	j	Old Parkbury Lane, Colney Street, St Albans , Hertfordshire	(092)76-4757	922989

Basildon Establishment

Airadio Products	p	Christopher Martin Road, Basildon , Essex, SS14 3EL	(0268)22822	99225
Airadio Spares and Service	q	Dalston Gardens, Stanmore , Middlesex	(01)204-3322	27381
Airadio Systems	r	Christopher Martin Road, Basildon , Essex, SS14 3EL	(0268)22822	99225
Electro-optical Advanced Systems	s	Christopher Martin Road, Basildon , Essex, SS14 3EL	(0268)287575	995313
Electro-optical Products	t	Christopher Martin Road, Basildon , Essex, SS14 3EL	(0268)22822	99451
Electro-optical Surveillance	u	Christopher Martin Road, Basildon , Essex, SS14 3EL	(0268)22822	99451

Other Establishments

Marconi Avionics Inc (USA)	T	Marconi Avionics Inc., 4500 N Shallowford Road, Atlanta , Georgia, 30338, USA	404.394.7800	8447
Marconi Avionics Projects Ltd *	X	Airport Works, Rochester , Kent, ME1 2XX	(0634)44400	96333
Marconi Avionics Research Laboratory	Y	West Hanningfield Road, Great Baddow , Chelmsford, CM2 8HN	(0245)73331	99201

* Registered Office

** Telefax (0634) 401748

Part 2

directory of divisions and departments

Each Division and other trading organisation within our company is listed alphabetically under its Establishment. The associated code enables a product or service identified in Part 3 to be traced to the Division(s) concerned. (The codes are for convenience in using this issue of this publication only and have no other significance.)

Addresses, telephone numbers and telex codes are listed on page 8.

Rochester Establishment

Head Office: Airport Works, Rochester, Kent, ME1 2XX, England.

Telephone: Medway (0634) 44400 Telex: 96333 MEAROC G Cable: Elliotauto Rochester

A Airborne Display Division

'Head-up' and 'head-down' displays developed and produced for the world's aircraft. Displays systems include navigation/weapon aiming systems for both air-to-air and air-to-ground operations, airborne tactical displays and night vision systems including holographic (wide-angle) displays, helmet display systems and image-enhancing goggles.

B Automatic Test Equipment Division

Computer controlled automatic test equipment for functional testing at any operating frequency, for factory, depot, and field use, including mobile applications. Systems available include the COMPACT range using Virtual Instrumentation, and test equipments which operate with standard test instruments such as the COMPACT α Digital Card Tester. Customer support services include the preparation of test programs, handbooks, maintenance, calibration and repair.

C Aviation Service and Repair Division

Total integrated support for all Marconi Avionics products except radio and microwave systems. Services embrace equipment repair, overhaul and modification, warranty administration, comprehensive logistics support data and analyses, spares provisioning and procurement recommendations, spares stocking and supply including AOG items, on-call and on-site field service, maintenance training, depot level test equipment design, maintenance publications. Special-to-customer support options include cost-per-flying-hour, fixed-cost-fixed-turnaround, direct exchange schemes; establishment, operation and transfer of complete depot level repair facilities.

D Central Quality Department (Rochester)

Product assessment consultancy and testing services covering a wide range of National and International Standards. Comprehensive environmental and mechanical test facilities. Electromagnetic compatibility testing including mobile facilities and advisory services on suppression techniques for use on Customer's sites, off-shore oil platforms and similar locations. Component testing and diagnosis. Calibration of electrical and mechanical items and environmental facilities.

E Combat Aircraft Controls Division

A wide range of automatic flight control systems and subsystems for combat aircraft. Products include integrated AFCS to customers' requirements, autopilots, command and stability augmentation systems, fly-by-wire systems, fly-by-light systems, auto-throttle controls and specialised systems, such as are required for spin and incidence limiting.

F Flight Automation Research Laboratory

Research and development for customers into fields related to flight automation, including sensors, control systems, navigation, advanced digital processing, displays, helmet-mounted displays, direct voice input, data transmission, optical design, power supplies, subsea exploration and unmanned aircraft.

G Flight Controls Division

Automatic Flight Control Systems and subsystems for civil and military transport aircraft, helicopters and unmanned aircraft, including drones. Products include integrated AFCS to customer requirements, autopilots, automatic landing and autothrottle control systems, autostabilisation systems and electronics for secondary flying controls, such as slats and flaps.

H Gyro Division

Sub-miniature precision rate and rate integrating gyroscopes and accelerometers including associated electronics (power supplies, current generators, microprocessors, demodulators, output interface circuits, etc). Multi-axis gyro and accelerometer units for a.c. or d.c. inputs and outputs. Strapdown attitude sensing units, control sensing units and attitude and heading reference systems for underwater weapons, fighting vehicles, aircraft, helicopters, air cushion vehicles and guided weapons.

I Inertial Navigation Division

Development and production of aircraft, vehicle and ship navigation, attitude and heading reference systems based on inertial technology; related systems including digital computers, projected map displays and total system integration, individual unit and total system software capability.

J Instrument Systems Division

Advanced central air data computers and air data sensors for every kind of military aircraft. Omni-directional air data systems for helicopters. Stores management systems for combat aircraft. Performance management systems for helicopters. Automatic map readers.

K Maritime Aircraft Systems Division

Acoustic processing and display systems for all types of anti-submarine (ASW) and surveillance aircraft and helicopters. Airborne tactical information display systems for maritime aircraft and helicopters to integrate and display all sensor and navigational data. Total avionics system integration for fixed wing aircraft and helicopters. Operational support for integrated and stand-alone ASW systems in terms of training, post-flight analysis and software support and development.

L Nailsea

Power conversion units for avionic and general military application including ground mobile and marine electronic systems designed and produced to meet hostile environmental demands, high reliability and low volume. Offshore projects such as: failsafe electronics for subsea well/manifold control, well platform telemetry, command and monitoring data links, quick release inductive couplers for subsea power and signal connections/connector systems, control and monitoring consoles for production platforms.

M Powerplant Systems Division

Gas turbine fuel control electronics, digital engine control, engine supervisory electronics, aircraft fuel flow and fuel quantity measurement systems, microprocessor-based fuel flowmeters, automatic test and monitoring systems for the cost-effective ground testing of powerplants.

T Marconi Avionics Inc., Atlanta

Marconi Avionics Inc. is engaged in the design, production and support of avionics and ground support equipment for the US Government, the British Government and several major aerospace companies. Established in 1962, the company employs 400 people at its main plant in Atlanta, Georgia, and branch offices in Fort Worth, Seattle and Dayton. Company-funded research and development includes work in the area of carbon dioxide TEA lasers, for which a separate, fully equipped facility is maintained.

X Marconi Avionics Projects Limited

This company was founded in 1980 in order to carry out specific projects for which avionics are supplied by a number of Divisions of Marconi Avionics Limited.

Y Avionics Research Laboratory, Great Baddow

The Avionics Research Laboratory in the Marconi Research Centre, Great Baddow, has been established to provide research and advanced developments of specific interest to trading Divisions. It comprises an Applied Physics Group, a Sensor Systems Group, a Digital Processing and Displays Group, and a Control Systems Group. It is currently making holographic filters for advanced wide-angle head-up displays.

Borehamwood Establishment

Main office: Elstree Way, Borehamwood, Herts, WD6 1RX, England.

Telephone: 01-953-2030 Telex: 22777 Cable: Elliotauto Borehamwood

a Airborne Radar Systems Division

Development and production of airborne interception radar systems, combat radars, fire control and weapon guidance radars, radar simulators and associated test equipment.

b Airborne Software Division

Studies, development, consultancy and services in the following fields: real time computer software, real time computer based military systems, trials analysis and simulation software, computer aided design services, requirements engineering, air defence systems management software and related data handling systems.

c Airborne Warning Systems Division

Airborne early warning radar systems and complete mission system avionics for AEW aircraft. System integration and project management. AEW radar systems design, development and production; test equipment and simulators.

d Central Quality Department (Borehamwood)

Quality assurance services to meet National and International Standards including extensive environmental testing and engineering facilities, active and passive component testing, calibration of electrical and physical measurement equipment, and the preparation of quality procedures, standards and codes of practice.

e Lightweight Structures Department

Design, development and production of high-performance precision lightweight composite structures, in particular lightweight communications and radar aerials. Full technical support and testing service.

f Mobile Radar Division

Battlefield surveillance radars; mobile radars for military and industrial use, including radar level detectors for vertical storage bunkers, for use in coal mines and silos; remote ground sensor systems employing seismic, infra-red or other techniques; perimeter protection and site security systems based on infra-red, seismic and television techniques; precision angulation and mounting systems for battlefield optical equipment.

g Neutron Division

High intensity X-ray generators and instruments used worldwide; X-ray diffraction and topography instruments for research and process control; neutron generators and systems; carbon dioxide and HeNe lasers for military, scientific and industrial application; laser rangefinders, high stability lasers for low airspeed and turbulence measurement.

h Research Laboratory (Borehamwood)

Research and development of microwave components, microwave integrated circuits, aerials and systems, radar techniques, scanners, thick and thin film hybrid microcircuits.

i Special Projects Division

Advanced digital signal processing and display systems.

j Thick Film Department

Manufacture of thick film hybrid microcircuits for commercial and military applications. Approved to Def. Stan. 05-21 and BS 9450 full assessment (including Category B add-on components). Customer participation on design to any stage by agreement. 100% screening procedures include temperature cycling, seal integrity, burn-in and additional screening by request.

Basildon Establishment

Main office: Christopher Martin Road, Basildon, Essex, SS14 3EL, England.
Telephone: Basildon (0268) 22822 Telex: 99225 (Airadio), 99451 (Electro-optical)
Cable: Expanse Basildon (Airadio), Mareos Basildon (Electro-optical)

p Airadio Products Division

Airborne radio navigation and communications equipment for widespread use in civil and military aircraft of all kinds. Systems to ARINC and MIL STD specifications include HF, VHF and UHF communications for clear and secure voice and data. Ground stations VHF, UHF. Communications control systems (intercomm) and communication management systems. SELCAL systems. Antenna couplers and tuning units. Navigation systems include Doppler, TACAN, VOR, ILS, Marker, DME, R-Nav and OMEGA VLF systems. Ground proximity warning systems (GPWS) for civil aircraft. Sonobuoy homing receivers. Tactical communications and homing systems. Central suppression units. Doppler speed and motion sensors for surface transport systems.

q Airadio Spares and Service

Repair and overhaul of all types of civil and military airborne communications and navigation systems.

r Airadio Systems Division

Definition, development and integration of complete radio communications and radio navigation systems for air-to-air, air-to-surface and ground-to-air military and civil applications; encryption and decoding systems for secure communications on voice and data link; ECM resistant systems; transportable ground-air communications stations; automatic and multi-function avionics management systems.

s Electro-optical Advanced Systems Division and Future Systems Laboratory

Research, development and production of advanced electro-optical systems for defence and industry. Missile guidance, gathering and tracking systems. Underwater television developments. Signal processing systems for torpedoes and support services such as recovery frames and underwater targets. Image processing systems. Robotic visual inspection systems for industry.

t Electro-optical Products Division

Electro-optical guidance systems for missiles; daylight and low light television and thermal imaging tracking systems for weapon fire control; tracking trials recording and analysis systems; gun boresight television. Fibre optic analogue and digital data transmission systems for vehicle remote control and for video distribution. Solid state imaging sensors; miniature CCD television cameras. Television surveillance systems for hazardous industrial environments. Specialised security surveillance systems, both static and mobile.

u Electro-optical Surveillance Division

Electro-optical Surveillance Division produces a wide range of surveillance systems for civil and military use. A typical civil system is Heli Tele, a helicopter borne television surveillance and data link system, with fixed mobile ground receiving station. Military viewing systems for armoured fighting vehicles, helicopters, aircraft and remotely piloted aircraft have been produced incorporating stabilisation, microwave links, high resolution daylight and low light television and thermal imaging systems.

Part 3

products/services guide

Alphabetical index of products with codes indicating their source.

acc — con

A

Acceleration, Mechanical Testing D
Accelerometer and Gyro Units: Multi-Axis, AC or DC Inputs and Outputs H
Accelerometers: Torpedo, Shipborne, Missile, Vehicle; Unmanned Aircraft, Airborne; Precision Subminiature, Supergee H
Acoustic Analysis Systems I
Acoustic Analysis Systems, Airborne K
Acoustic Data Transmission Systems, Multiplex, Airborne K
Acoustic Processing and Display System: AQS901 for Long Range Maritime Patrol Aircraft; AQS902 Lightweight System for MPA and ASW Helicopters; Variants to Process and Display Dipping Sonar K
Acoustic Signal Processing S
Acoustic Signal Processors and Display Systems, Naval I
Acoustic Signal Processors and Display Systems, Naval, Airborne K
Acoustics/Sonar, Receiver, Navigation Aids P
Active Filters, Thick Film J
Actuators, Hydraulic Developments G
Actuators, Quadruplex Electro-Hydraulic E
ADF Navigation System, Airborne P
Advanced Digital Signal Processing and Display Systems I
Aerial Couplers, Radio Communications, Aircraft P
Aerial Systems, Radar Communications: Lightweight; Airborne; Precision, Microwave E
Aerial Systems, Radio Communications, Aircraft P
Aerial Systems, Stabilising Gyro Units H
Aerial Tuners, Radio Communications, Aircraft P
Aerial Tuning Units, Airborne P
Aerials, Antennae, Scanners H
AEW and MPA Mission Communications Systems R
AFCS (Automatic Flight Control Systems) GE
Air Combat Radars A
Air Data Computation, HUD Electronics Unit A
Air Data Computers, Central J
Air Data Computers, Digital J
Air Data Computers, Standard Central J
Air Data Sensors J
Air Data Systems T
Air Data Systems, Helicopter J
Air Defence Systems Management Software and Related Data Handling Systems B
Airborne Acoustic Processing Systems K
Airborne ADF P
Airborne Aerial Systems, Radar Communication E
Airborne and Ground Radar Instrumentation A
Airborne Central Suppression Units P
Airborne Communication Control Systems, Speech Enhancement P
Airborne Communications and Navigations Systems, Repair and Overhaul Q

Airborne Communications Systems, LF, HF, VHF, UHF, Microwave R
Airborne Data and Signal Processing Equipment A
Airborne Digital Computers IK
Airborne Displays, Electro-mechanical P
Airborne Early Warning Mission Systems (AEW MSA) C
Airborne Early Warning (AEW) Radar Systems C
Airborne Gyroscopes and Accelerometers H
Airborne ILS P
Airborne Infra-red Equipment U
Airborne Interception Radar Systems A
Airborne Optical Radar, Lasers Applied G
Airborne Position Indicator Instruments P
Airborne Processors TK
Airborne Processors, including 920 ATC Digital Airborne Computers K
Airborne Radar Transmit/Receive Units C
Airborne Radio, All-weather Landing Systems P
Airborne Surveillance and Reconnaissance Radar C
Airborne/Ground, Command Systems and Equipment UGs
Airborne/Spaceborne Cameras, TV S
Aircraft Pylon Control Equipment J
Aircraft Unmanned, Air-Ground Data Links G
Aircraft Unmanned, Attitude References H
Aircraft Unmanned, Autopilot G
Aircraft Unmanned, Command Systems G
Aircraft Unmanned, Surveillance Systems U
Airspeed and Direction Indicators, Helicopter J
Air/Air Weapon Aiming, HUD Electronics Unit A
Air/Ground Data Link S
Air/Ground Data Links, Electro-optical Surveillance U
Air/Ground Weapon Aiming, HUD Electronics Unit A
Alignment Equipment, Optical U
All Weather Landing Systems, AFCS G
All Weather Landing Systems, Airborne Radio P
Amplifiers, Thick Film J
Analogue Circuits, Thick Film J
Analogue/Digital Autopilots GE
Analysis and Simulation Software, Trials, Radar B
Analysis and Trials Replay Systems, Radar A
Analysis Systems, Acoustic I
Analysis Systems, Acoustic, Airborne K
Analysis, Systems, Airborne Acoustic Processing and Display K
Angulation Mounting Systems F
Antenna Couplers, Airborne P
Antennae, Aerials, Scanners H
Anti-circling Gyroscopic Sensors H
Anti-submarine Systems, Airborne Acoustic Processing and Display K
AOG and Expedite Service C
AP-G6 Accelerometers, (Torque Re-balance) H
AP-S1 Accelerometers H

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