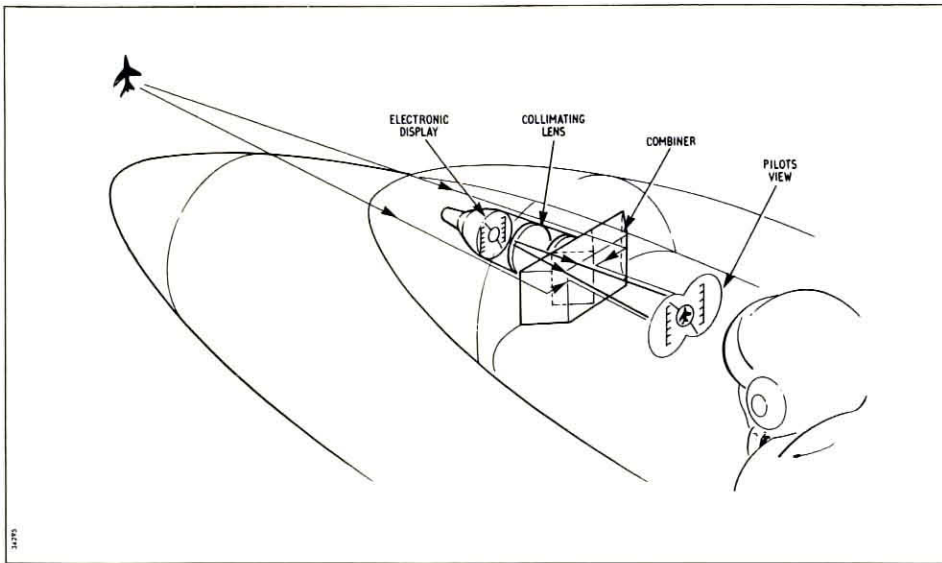


PARIS 1975
PRODUCT INFORMATION
NEW PHOTOGRAPHS

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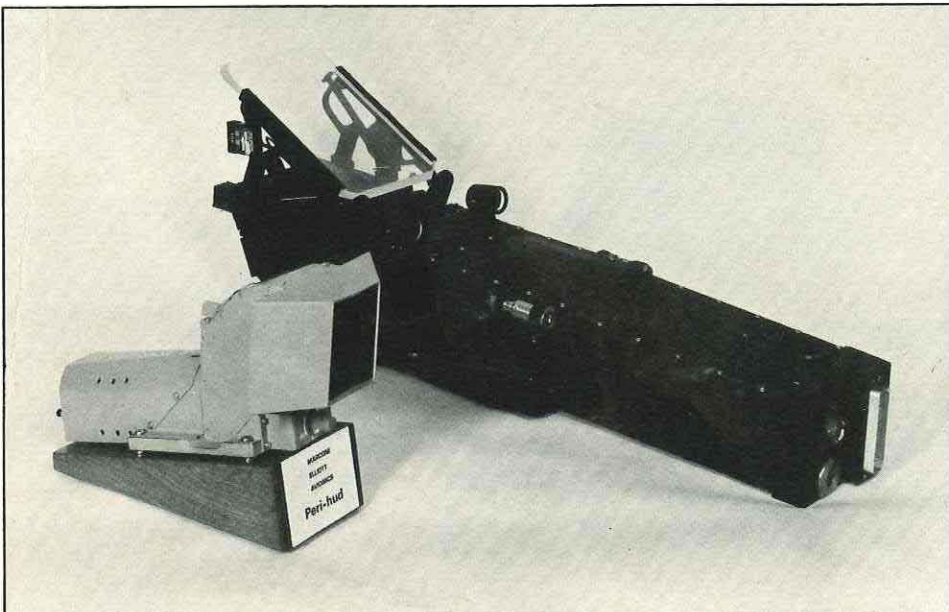
PRINCIPLES OF UNIQUE PERI-HUD

Peri-hud is a new form of head-up display for aircraft, produced by Marconi-Elliott Avionic Systems Limited. It uses periscopic optics to project, into the pilot's view ahead, electronically-generated symbols for piloting, navigation and weapon aiming.

Main feature of the Peri-hud is that the cathode ray tube and lens system protrudes far less into the instrument panel than those of a conventional HUD and are entirely invisible to the pilot behind the periscopic combiner.

The equipment also gives a wider field of view and can be fitted in aircraft which could not previously accept head-up displays without extensive cockpit modifications.

ET 108/12



NEW PERI-HUD IS COMPACT

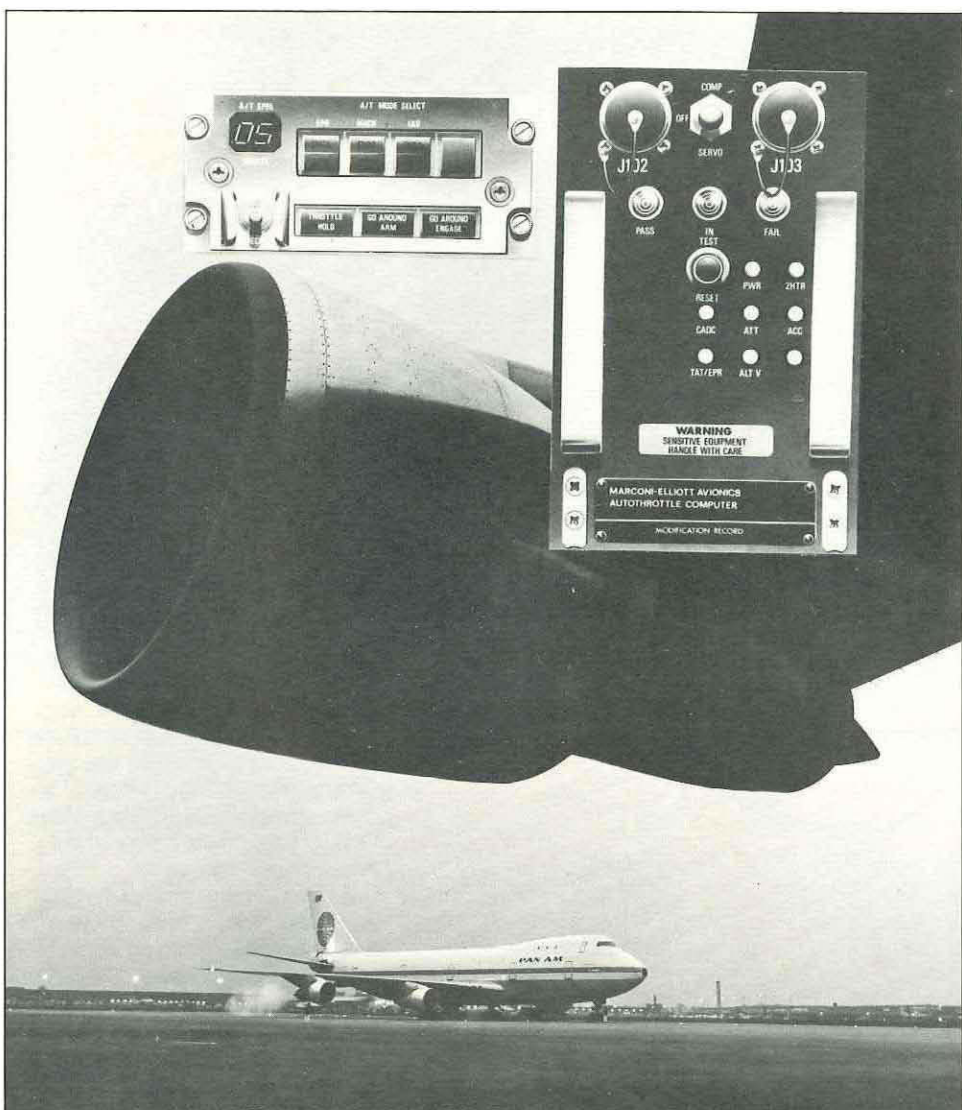
The optical module of the first flyable Peri-hud equipment is shown together with the Pilot's Display Unit, (at rear), of the world's most successful head-up display supplied for the A-7D and A-7E Corsair aircraft.

Both equipments, produced by Marconi-Elliott Avionic Systems Limited, give the pilot the same field of view and display similar electronically-generated symbology.

The new Peri-hud system, complete with air-to-air and air-to-ground weapon aiming computing, is to be fully flight tested in the latter half of 1975.

54/30509

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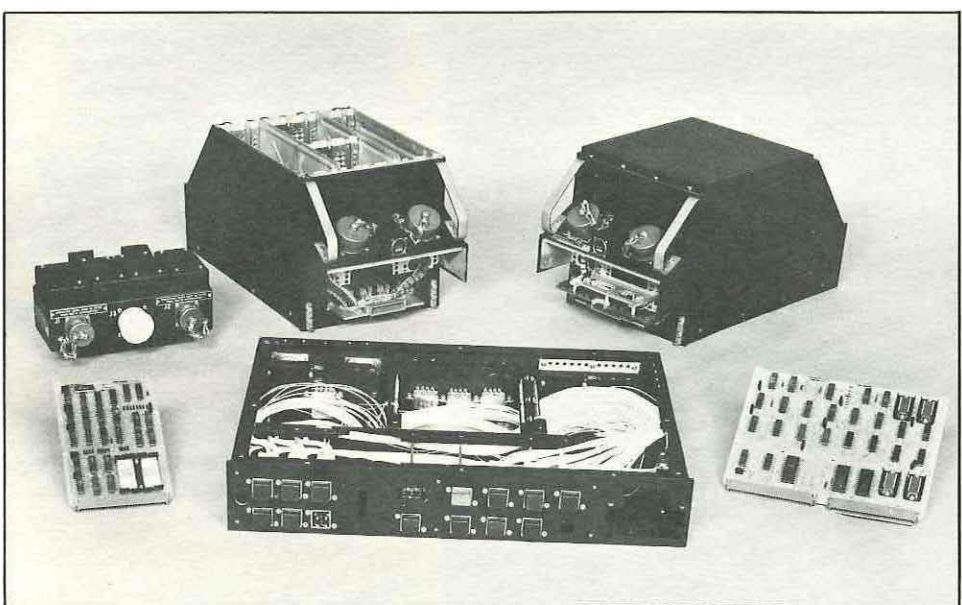


NEW AUTOMATIC THROTTLE CONTROL SYSTEM UNDER WAY FOR BOEING 747

Marconi-Elliott Avionic Systems Limited has been selected by the Boeing Airplane Company, located in Everett, Washington, USA, to develop and supply an improved automatic throttle control system for the Boeing 747.

The new system, which comprises a computer (right) and control panel (left), will automatically control airspeed and other parameters to reduce pilot workload, particularly during the descent, holding, approach and landing phases of flight. A number of advanced optional features are included to meet newer requirement, in keeping with current and projected airline needs.

54/30551



DIGITAL FLIGHT CONTROL ELECTRONICS SYSTEM PROGRESSES FOR NEW BOEING YC-14 AMST

Equipment shown forms one control lane of the triplex digital flight control electronics system, produced by Marconi-Elliott Avionic Systems Limited for the new Boeing YC-14 Advanced Medium STOL Transport, AMST.

Digital computer and Interface Unit (centre rear) in each lane are coupled via Optical Coupler Unit (rear left) for lane comparison, ensuring inter-lane electrical isolation. Control panel (foreground) has push-buttons for mode selection and identification.

54/30320



OPTICAL COUPLER UNIT FOR YC-14 FLIGHT CONTROL SYSTEM

Optical Coupler Unit enables information to be sent between the triplex lanes of the failure-surviving digital flight control electronics system produced by Marconi-Elliott Avionic Systems Limited for the Boeing YC-14 AMST.

Optical data transmission ensures complete inter-lane electrical isolation and is achieved by means of special connectors and fibre optic cables, developed by the Hellenman Electronic Components Division of Bowthorpe Hellenman Limited. Picture shows fibre optic connector, its mating plug and fibre optic cable.

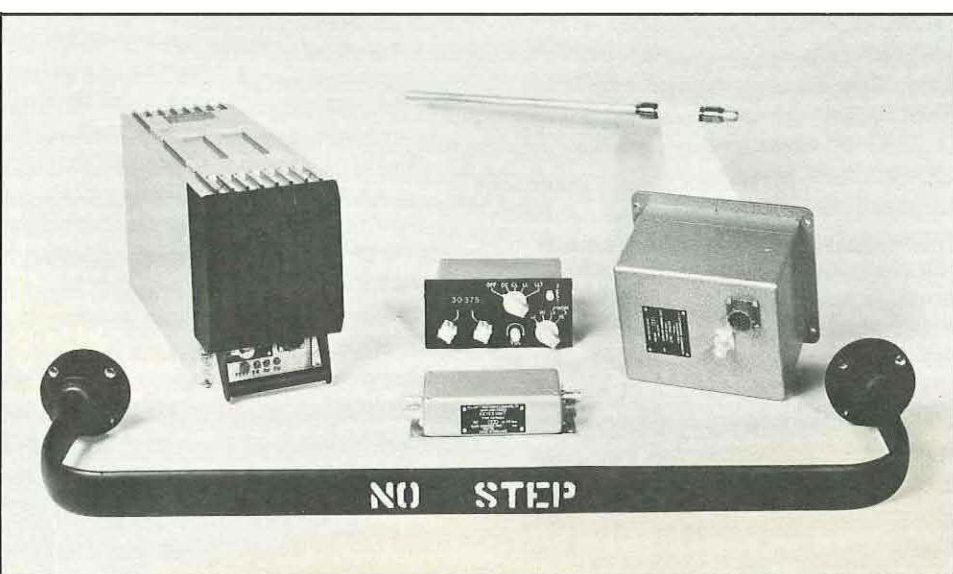
54/30552



PILOTS' CONTROL PANEL FOR YC-14 FLIGHT CONTROL SYSTEM

Glareshield-mounted pilots' control panel is part of the Flight Control Electronics System produced by Marconi-Elliott Avionic Systems Limited for the Boeing YC-14 AMST. Unit has push button mode selection and identification facilities and a program selector for flight test purposes.

54/30555



TACTICAL VHF/FM COMMUNICATIONS SYSTEM - AD 190

AD 190 system produced by Marconi-Elliott Avionic Systems Limited is supplied for installation on Lynx and Gazelle helicopters and has application on wide range of fixed wing aircraft and helicopters operating in a tactical role. System is unique in having a multi-station capability.

54/30553



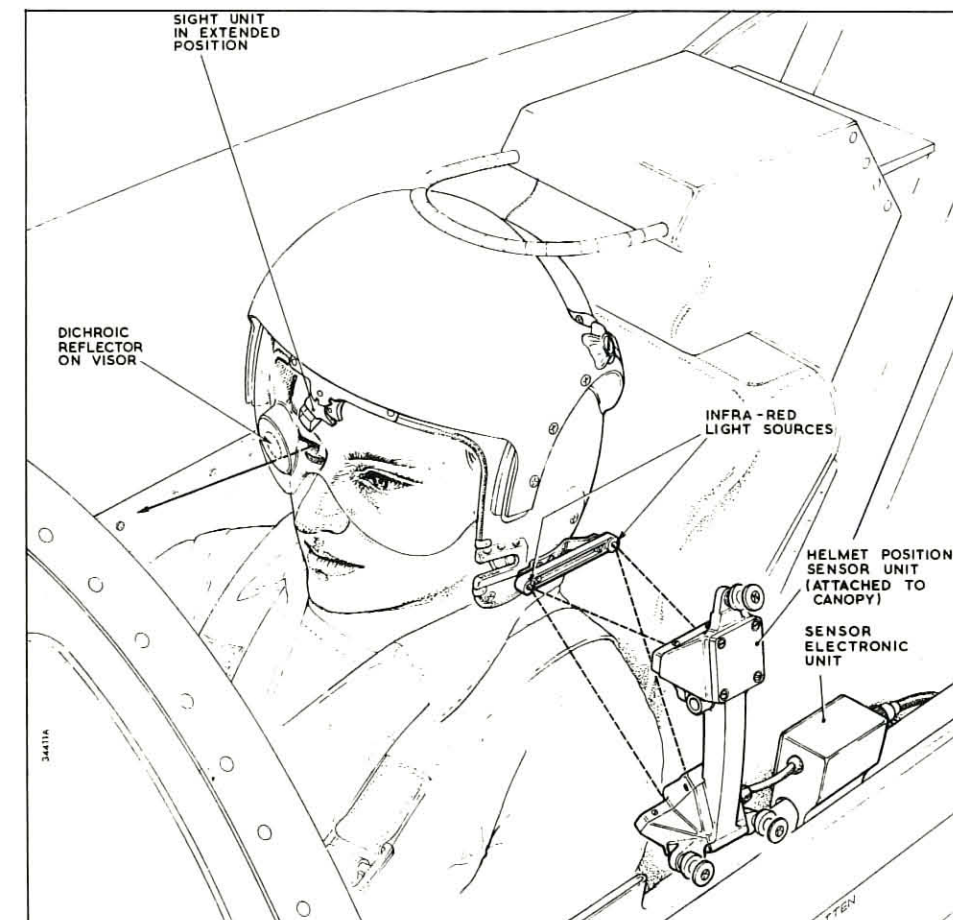
WIDE RANGE OF HELICOPTER AVIONICS

Part of the wide range of advanced, reliable and easily maintained avionics for helicopters, which is produced by Marconi-Elliott Avionic Systems Limited.

Picture shows Lynx flight control system, AD 190 VHF tactical communications system, low airspeed sensor, payload margin indication system, fuel flow and engine instruments and radio map display.

Company also supplied Doppler navigators, ADF systems, and acoustic processing and display systems (not illustrated).

54/30538



NEW HELMET SIGHT SYSTEM IN ADVANCED STAGE OF DEVELOPMENT

Helmet-mounted sight system, under development by Marconi-Elliott Avionic Systems Limited, comprises, in effect, an extremely small head-up display and sensors which detect the pilot's line of sight at any time.

System can give pilot important information cues, such as threat warnings, and enables him to designate targets to his avionic weapon aiming system, merely by looking at a target.

54/30547

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Rochester Kent ME1 2XX England
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Telegrams: Elliotauto Rochester Telex 96333/4

And at Basildon and Borehamwood

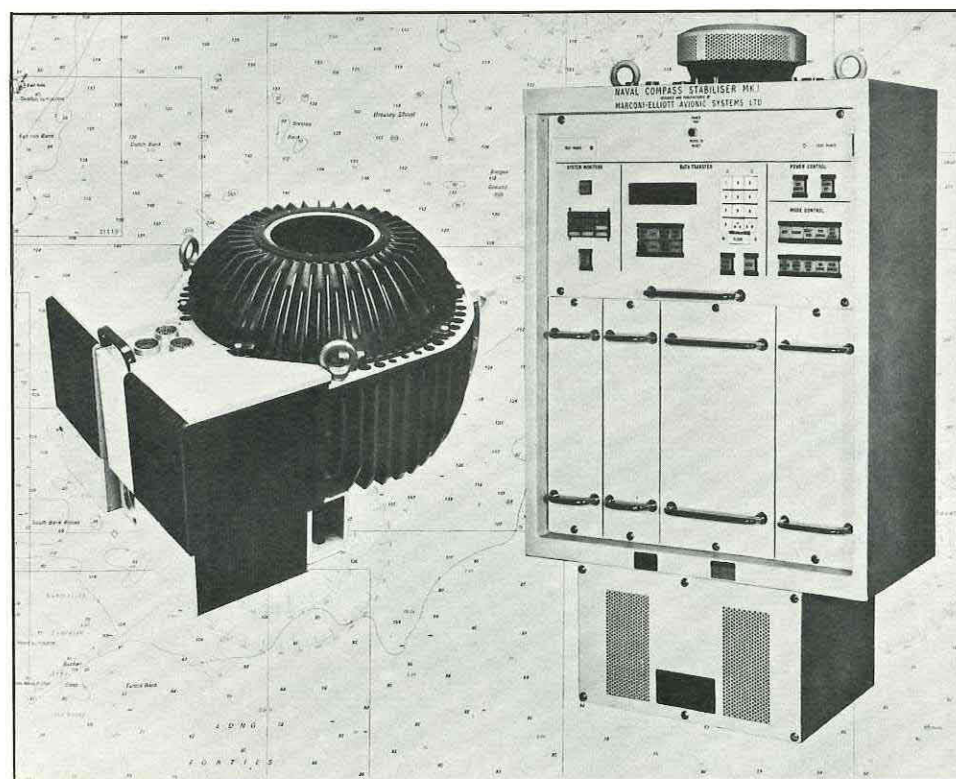
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ACOUSTIC PROCESSING AND DISPLAY SYSTEM AQS 901 ENTERS FINAL DEVELOPMENT PHASE

Test rig shows part of AQS 901 system undergoing system integration testing at the Rochester factory of Marconi-Elliott Avionic Systems Limited.
In centre of picture is 920 ATC advanced technology computer and associated buffer stores and interface units.

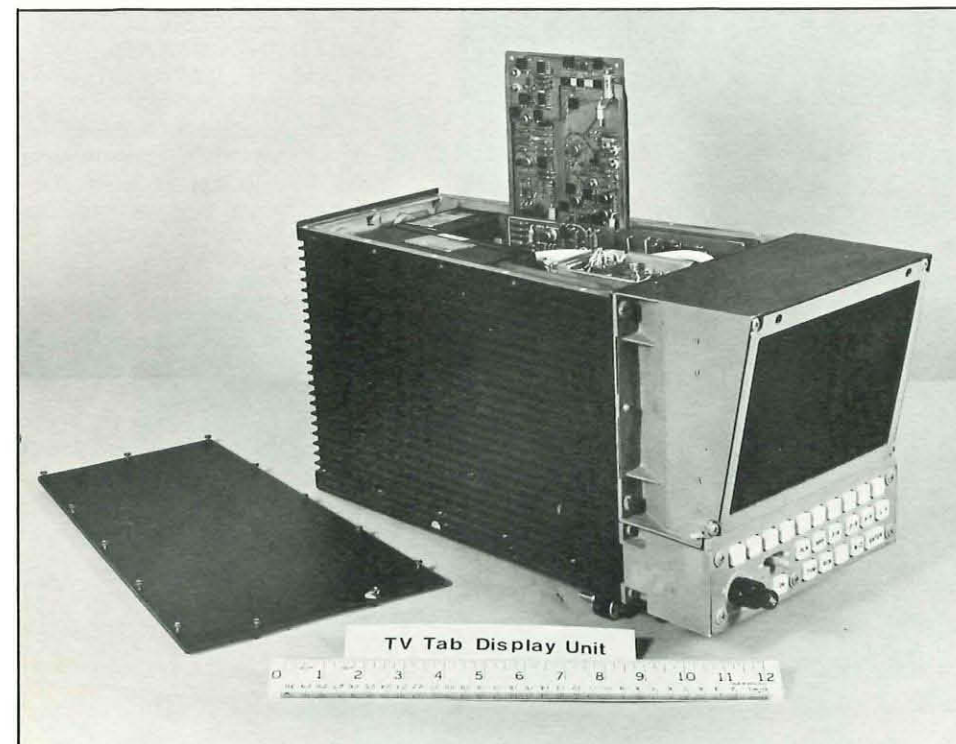
54/30535



NAVAL COMPASS STABILISER - NCS-1

Space Reference Unit (left) and Electronics Unit (right), of the new Naval Compass Stabiliser system, NCS-1, produced by Marconi-Elliott Avionic Systems Limited.

54/30554

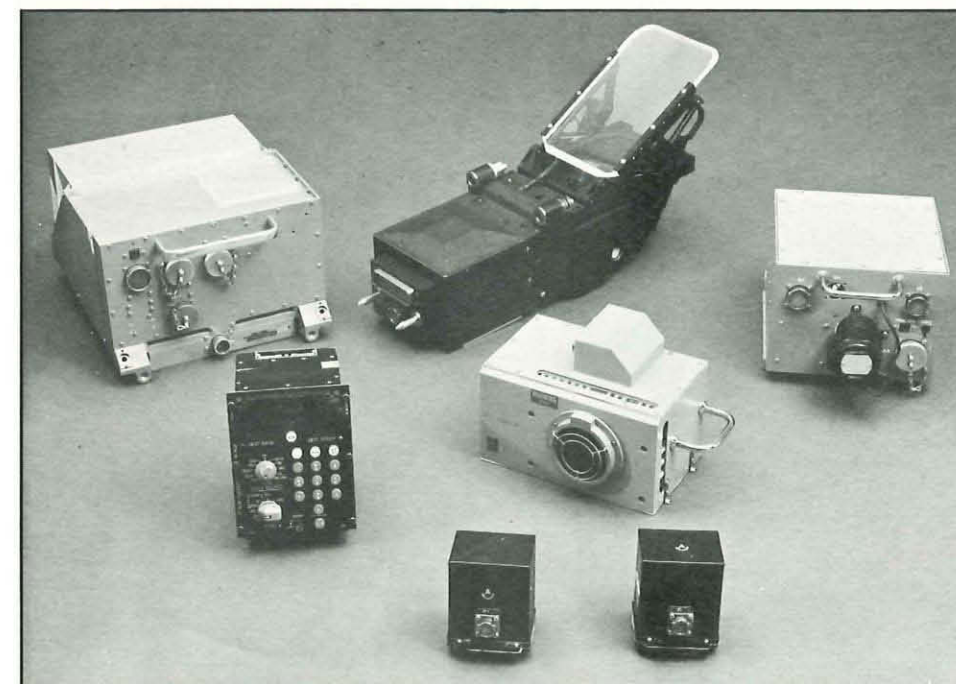


HEAD-DOWN TV TABULAR DISPLAY

Multi-mode cathode ray tube "head-down" display for military aircraft has raster scan, enabling television or infra red pictures to be displayed in a cockpit, together with director, navigation or other symbols.

Marconi-Elliott Avionic Systems Limited is the world's most experienced display manufacturer with the widest range of applications for head-up, head-down and projected map displays in both European and American aircraft.

54/30065



HEAD-UP DISPLAY WEAPON AIMING SYSTEM EVALUATED FOR MIRAGE F-1E

Marconi-Elliott Avionic Systems Limited head-up display weapon aiming system shown with Litton Inertial Navigation System. Integrated system provides full range of navigation, air-to-air and air-to-ground weapon aiming modes with reversionary capability in case of failure.

System has been flight evaluated successfully by Avions Marcel Dassault Breguet Aviation using a Milan 2 as a "hack aircraft" for the Mirage F-1E Eurofighter contender.

54/29150

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