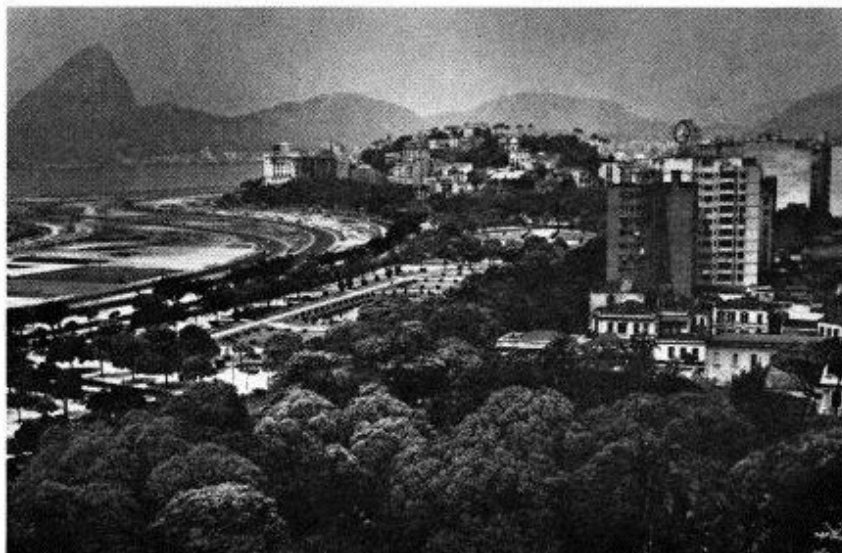


Sales to Brazil

The Marconi Company has been particularly successful in Brazil. More than £1m worth of sound broadcasting and television equipment has been sold there in recent years. Transmitting and studio equipment has been installed at several stations at Recife, Sao Paulo and Rio de Janeiro. Marconi colour television has been installed in Televisao Excelsior at Sao Paulo.

A recent order has been received from Televisao Rio for eight Mark IV Image Orthicon Cameras and three vidicon camera telecine equipments. The total sales of Mark IV Camera Channels to Brazil now amount to fifty.

A view of Rio de Janeiro where Marconi's have recently sold eight Mark IV Camera Channels.



Taking a large view of the Election

At the General Election recently held in the UK, the crowds, as is traditional, gathered in Trafalgar Square in the heart of London to await the results as they came in from the various constituencies. This time, however, they were treated to an entirely new form of announcement. They were able to see the BBC Television coverage of the election projected on to a large Marconi television screen on the north side of the square.

A Marconi colour television projector, modified for back projection of black and white pictures, was installed and operated for the BBC by Colour Television Engineering Services Ltd. It showed pictures from the BBC Television Centre and from BBC outside broadcast units in various parts of the country.

The Marconi projector was designed primarily for closed-circuit colour television applications, and uses three high-brightness projection cathode ray tubes developed and supplied by the English Electric Valve Company. Similar equipments have been used for full colour demonstrations of surgical techniques in hospitals and for the relay of stage plays to distant centres.

The large Marconi screen projector in Trafalgar Square on Election night. The curious effect of everyone looking towards the fountain, including the person on the screen, was caused by the fact that some revellers were bathing in the water despite the cold night.



Camera sales in Mexico

In recent years Marconi have sold a large quantity of television equipment in Mexico, through their agents, Acosa, including nearly 30 Mark IV I. O. Cameras. A recent order has been for telecine equipment. Radio Television S.A in Tijuana on the border between Mexico and California has ordered the latest type, including two Mark IV Vidicon Camera Channels Type BD896 and Optical Multiplexer Type BD923.

The BD896 Camera Channel has been designed primarily for telecine and similar static applications and many parts can be readily interchanged with the Mark IV Image Orthicon Camera Channel. The performance of this channel has recently been improved by raising the wall electrode voltage to 1,000 and reducing the capacity of the signal electrode. A new head amplifier has also been designed which, together with alterations to the yoke affords improved resolution, signal-to-noise ratio and beam-landing performance.



Mark IV Image Orthicon Cameras in operation in Studio A Telesistema Mexicano, Mexico City.

TWW expands Cardiff Studios

TWW are building an extension to their Pontcanna Cardiff studios which is scheduled for completion this year, and which includes a new control centre. The Marconi Company has been awarded an order for the supply of vision and sound switching and distribution equipment. This will include 84 of the new Marconi Semiconductor Vision and Pulse Distribution Amplifiers Type B4002, which are suitable for colour (see page 20). Switching and mixing equipment, based on Uniselectors, will enable two isolated outputs to feed separate transmitter networks or if both take the same programme, one output can be used for pre-recording, continuity and advertising spots. When the equipment is installed, sources for transmission will be preselected using the Marconi Eight-Event Store Type B3719. Up to eight vision and sound sources can be preselected in advance,

thus decreasing the chance of errors during transmission. Also included in this order are Sound Distribution Amplifiers, Picture and Waveform Monitors and an Automatic Time Display System.

The famous Pulteney Bridge designed by Robert Adam over the River Avon at Bath, near Bristol where TWW have one of their television centres. The Pontcanna Studios are at Cardiff, across the Bristol Channel.



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Source: Sound and Vision - Winter 1964/65

New Marconi Camera Pedestal

Marconi's have introduced a new light-weight camera pedestal, designed for both studio and outside broadcast use. Being collapsible, it is extremely easy to transport, and being little over 2 ft in width it is particularly useful for manoeuvring in restricted areas in crowded studios or through doorways, etc. The centre pedestal, which is raised and lowered hydraulically, can be lifted to 5 ft above the floor. For low-angle shots, the centre pedestal can be removed and the camera head fitted on top of the spider. In this case the friction head is only 12 in. above floor level.

Despite the fact that it weighs only 80 lb (36 kg) the whole assembly is very strong and rigid. The centre pedestal itself is mounted on a strong steel spider with three adjustable legs.

This new pedestal has undergone a long period of test with the Marconi Demonstration Unit, and has been used for several outside broadcast events, where it has proved extremely successful. Five pedestals have recently been ordered for Radio Caracas in Venezuela.



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Venezuelan TV business expands

Since the article on "Television in Venezuela" appeared in these pages two issues ago, Marconi's have succeeded in gaining further television business in Venezuela.

In the face of considerable international competition the Company has sold five Mark IV Image Orthicon Camera chains to Corporacion Venezolana de Television S.A who have television studios in Caracas. These cameras are to be used to extend the facilities of the station, and it was on their superior technical merits that this order was obtained. The Mark IV Camera is still by far the widest selling 4½-in. image orthicon camera in the world, and its performance has not been exceeded by any other camera.

Linked with this camera order is an order for a 5-kW television transmitter and associated sound transmitter. The Marconi 5-kW television transmitters (B7101 for Band I and B7102 for Band III) are amongst the most successful equipments of their type. They have been designed for simplicity of operation and maintenance, and can be readily adapted to extended control and parallel operation.

Caracas, Venezuela



OB units for Antipodes

Both Australia and New Zealand have recently ordered O.B Units from The Marconi Company.

The New Zealand Broadcasting Corporation has ordered a two-camera van very similar to that described in the article by P. A. T. Turrall in the 1964 Summer issue of *Sound and Vision broadcasting*. This O.B Unit (B4400) is virtually a compact mobile studio that can be used where larger 3- or 4-camera units could not be employed. It is being delivered to Dunedin in time to cover the Springbok Rugby Football Tour in July.

Following the success in Australia of Marconi 5-camera O.B vans, a further order has been received for a new 3-camera unit (B4401) for the Australian Broadcasting Commission. This unit is a complete television control room with full facilities for artistic production of a programme from a number of cameras.

These orders were obtained by our Australasian associates, Amalgamated Wireless (Australasia) Limited.



An aerial view of Dunedin City.

Major British programme companies order the Mark V camera

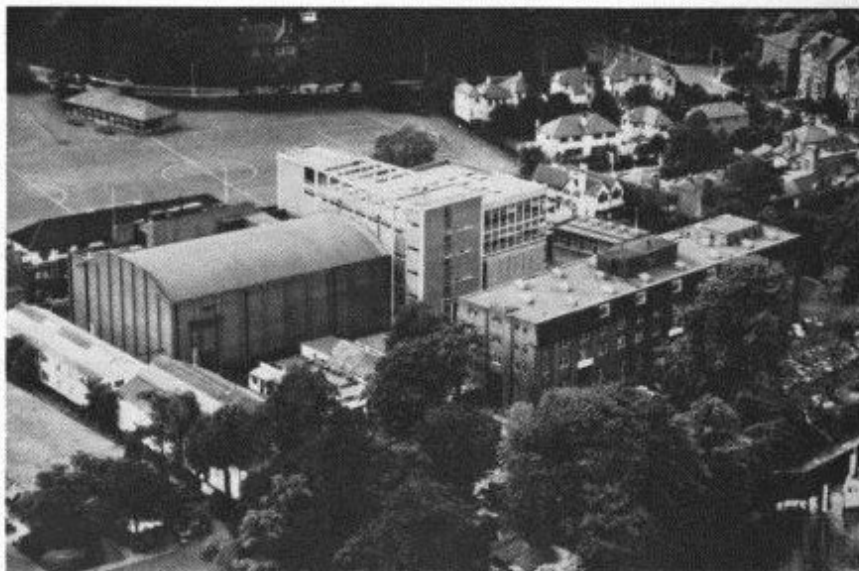
Although it was launched only in March, the Marconi Mark V 4½-in. image orthicon camera has been ordered by two of the major Independent Television Programme Contractors in the United Kingdom.

ABC Television Ltd has ordered 16 complete channels together with modules for sound mixers, picture and waveform monitors and synchronizing pulse generators to re-equip their mobile division. Three new O.B vans will undertake major outside broadcasts and location drama. They are of revolutionary design and are planned on the same lines as a studio production suite. This type of layout is made possible by the small size of the new range of Marconi Mark V camera equipment and is aided by the stability of the cameras, which reduces to a minimum the number of controls required during a production.

Granada Television Network Ltd will also be among the first users of the Mark V. The Marconi Company are acting as engineering consultants for a major redevelopment of the principal Granada Studio Centre at Quay St, Manchester. The new studios will provide Granada with the most up-to-date production

facilities, including full 625-line capability. Marconi's, acting on behalf of Granada, will undertake all aspects of the work involved in providing Granada with the entirely new installation.

The Mark V has achieved a remarkable success in the ten weeks since its introduction. Sixty-three firm orders have been received, more than 50% of which have come from abroad.



ABC Television's studios at Teddington.

Two new television stations in Argentina

Two important television stations will be starting operation later this year in Argentina. Marconi's have received the order for the complete studio and transmitting equipment for each station, one of which will be situated at Santa Fé and the other at Mar del Plata.

The former will provide complete coverage of Santa Fé and the neighbouring town of Parana, and will be operated by Televisora Santafecina S.A. The studios, situated in Santa Fé, will be equipped with Mark IV 4½-in. image orthicon cameras for normal programme work, with a broadcast vidicon camera for announcements, news and interviews. Telecine facilities will consist of two 16-mm film projectors and a slide projector, coupled to the Mark IV vidicon camera. A full range of sound equipment is also to be provided, together with synchronizing and test signal generators and control mixing and switching equipment.

The transmitting station will have a 5-kW Band III vision transmitter and a 1-kW frequency-modulated sound transmitter. The high-gain omnidirectional aerial system, mounted on a 150-metre

mast, will also be provided together with the transmission feeders and associated equipment. Link equipment is also being furnished.

The station at Mar del Plata will have similar equipment and will serve the coastal area 250 miles to the south of Buenos Aires.



The beach at Mar del Plata.

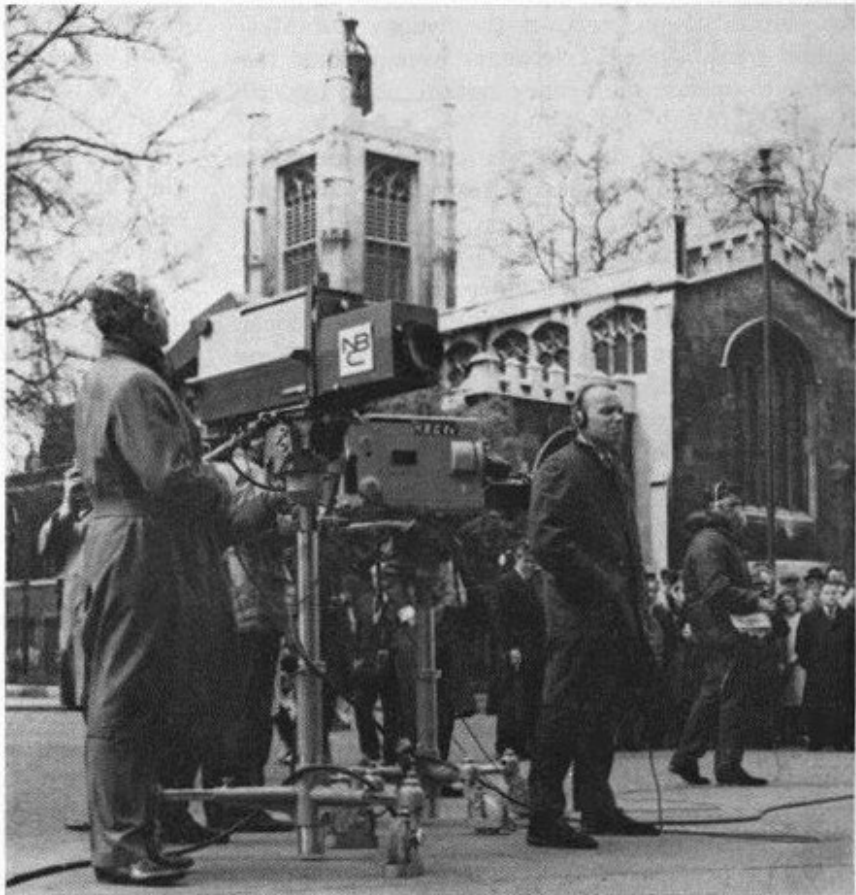
Marconi cameras catch the Early Bird

With the launching of Early Bird, the latest communications satellite, new possibilities in international television communications are opened up. As part of the inaugural programmes which took place at the beginning of May the Rt Hon. Herbert Bowden, C.B.E., M.P., the Leader of the House of Commons, in London and Vice-President Hubert H. Humphrey, the Leader of the American Senate, were linked directly by television.

For the London end of this link the National Broadcasting Corporation of America hired the Marconi Television Demonstration Unit. Three cameras were used, two in the St Stephen's entrance to the Houses of Parliament and one in Parliament Square for background shots. Of the former two, one was the recently unveiled Mark V image orthicon camera.

The television signals were converted to the American 525-line standard by the BBC in London, and then sent by land-line to the G.P.O. satellite communications station at Goonhilly, Cornwall, thence by Early Bird satellite, which is in synchronous orbit, to the American Telephone and Telegraph Company's satellite ground station at Andover, Maine. Land-lines linked Andover with the Senate House in Washington.

The American ground station at Andover employs Marconi B3900 Picture and Waveform Monitors, which were installed at the time of the first television relays by Telstar, and a Marconi Instruments white-noise test set.



Marconi's T.D.U. at the St Stephen's entrance to Parliament during one of the inaugural programmes for Early Bird.

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Source: Sound and Vision - Spring 1965

Marconi engineering consultant retires

'Forty-three years service to broadcasting'



The Marconi Company announces the retirement of Mr B. N. MacLarty, O.B.E., M.I.E.E who first joined the Company in 1921 and who has been closely associated with many of the major developments in broadcasting for the past 43 years.

When he first joined the Company, Mr MacLarty specialized in the design of various types of broadcasting and communication transmitters. He was one of the team of Marconi engineers who constructed the broadcasting station 2MT at Writtle, near Chelmsford. This station, which provided the first regular broadcasting service in Great Britain, was opened in February 1922.

In 1926 he transferred to the BBC Research Department to continue his work on transmitters, and in his 21 years with the Corporation under the direction of Sir Noel Ashbridge he was responsible for the

design and construction of all BBC transmitting stations including Falkirk and Burghead, the first stations in Scotland. His work also included the design of the Daventry 100-kW transmitters, the first high-power overseas short-wave broadcasting station.

In 1935 and 1936 he directed the design and installation of the world's first television studio and transmitting centre at Alexandra Palace. In recognition of his services to British broadcasting, Mr MacLarty was created an O.B.E. in the Coronation Honours List of 1937.

Rejoining The Marconi Company in 1947, Mr MacLarty was appointed Deputy Engineer-in-Chief, and in April 1954 succeeded the late Mr. G. M. Wright as Engineer-in-Chief. For the last two years, he has held the position of Engineering Consultant to the Company.

Unveiling the Mark V

Lord Nelson opens New Television Development Laboratories

The first public presentation of the Marconi Mark V broadcasting television camera and the opening of the new Television Development Laboratories happily coincided on 12th March.

Television development was until recently carried out at Marconi's Pottery Lane establishment which was taken over by the Company in 1939, and where a great deal of important development work on radar took place. More recently it saw much of the later development work on the world-famous Mark IV camera and colour and closed-circuit television equipment.

With expansion, however, conditions were becoming cramped, and the need for more commodious and convenient accommodation was apparent. The Company has, therefore, recently completed a £750,000 building at Waterhouse Lane, Chelmsford. The new building is a great improvement on the Pottery Lane site. The total floor space taken up by television development work has been increased to 57,500 sq. ft, more than one and a half times the previous figure. Laboratory facilities include a central apparatus room which provides 'piped' synchronizing signals of all currently used television standards, v.h.f. radio signals and other standard reference signals to all parts of the building.

Perhaps the most important feature of the new building is the 900 sq. ft television studio which has been constructed to the same high standard as a normal production studio. It has a specially levelled floor and is fully air-conditioned and sound-proofed. Lighting facilities are designed for both black-and-white and colour camera work.

It was here that the full working demonstration of the Mark V camera was held. Important representatives from the television world, the national and technical press and many other distinguished guests were able to examine the camera in close detail.

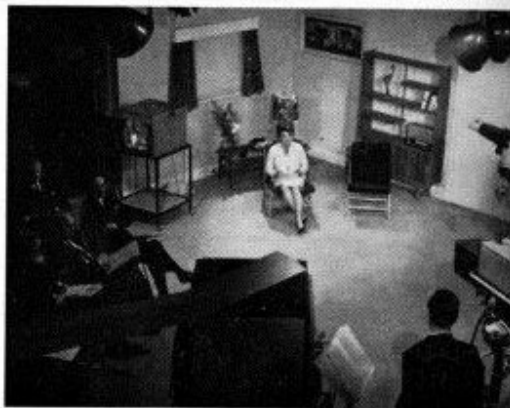
Tours of the spacious new laboratories were conducted and several other items of new equipment were on show, including the semi-automatic master switcher, the 1-kW one-valve m.f. transmitter and the Band IV/V television drive transmitter.

Lord Nelson of Stafford, Chairman of the English Electric Company, on formally opening the new laboratories, said, "I would like to say here that we are very proud of the fact that not only have we been able to provide an important part of the equipment used in providing the television service in this country . . . , but we have supplied equipments to 48 countries overseas. No less than 70% of the television equipment we manufacture is for export. I would here particularly draw attention to our position on television studio cameras. Our Mark IV television camera has been a best-seller—no less than 848 have been sold in all, and 716 of these were sold in the export market, including 267 to the USA and 103 to Canada. A sales record of this kind can only result from unrivalled excellence of the equipment. This achievement illustrates to my mind what is so important to this country, namely the successful development of a piece of equipment for the home market by close co-operation between manufacturer and user which leads to an equipment which can be sold world-wide on a large scale."

TOP RIGHT *The new Television Development Laboratories at Waterhouse Lane.*

RIGHT *Lord Nelson, Chairman of English Electric (second from right) talking to Mr T. Mayer, Manager, Broadcasting Division, at the opening of the new laboratories. Also in the picture are Sir G. Radley, Chairman of The Marconi Company (right) and Mr P. A. T. Bevan, O.B.E., Chief Engineer, Independent Television Authority.*

BOTTOM RIGHT *Miss Judith Chalmers provided a charming subject for the Mark V during the demonstration in the new fully equipped studio at Waterhouse Lane.*



Big American Television Order

First British Television Transmitters in US

Television Chicago, a joint venture controlled by Field Communications Corporation, has ordered Marconi television cameras and transmitters for a new u.h.f television station to be opened in Chicago.

Field Communications Corporation is a wholly owned subsidiary of Field Enterprises Inc., whose Newspaper Division publishes the Chicago *Sun-Times* and the Chicago *Daily News*.

Television Chicago has chosen Marconi equipment after an intensive appraisal of equipment available on the market, and this important export order was won in competition with all the principal television manufacturers in the United States.

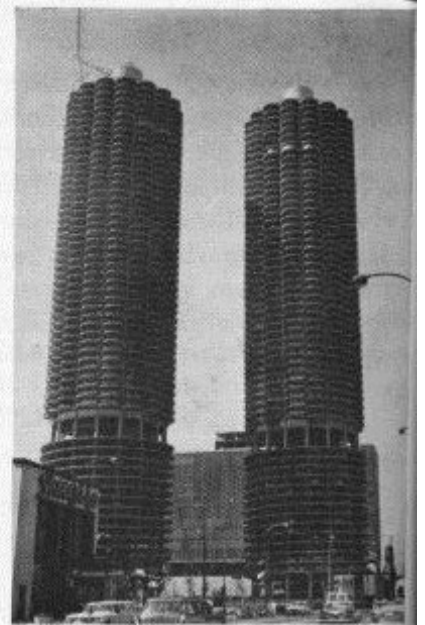
The purchase includes six of the new Mark V 4½-in. image orthicon cameras

which were described in our last issue and which were introduced in the US at the National Association of Broadcasters Convention in March this year.

Television Chicago has also ordered two 25-kW u.h.f transmitters and associated drive equipment. These transmitters, the first British television transmitters to be sold in the United States, are similar to those ordered by the BBC for their second channel, and were described in *Sound and Vision* broadcasting, Vol. 5, No. 1.

Television Chicago plans to include a transmitter station and studios at Marina City, a twin-tower, 60-storey residential and business development on the bank of the Chicago River.

Marina City, Chicago.



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Big Ghana Scheme nears completion

As we go to press, the £3,000,000 television and sound broadcasting scheme for Ghana approaches completion. Marconi's obtained the contract for this huge 'turnkey' project two years ago. In the intervening time large civil engineering works for the construction of buildings, masts and towers have gone on, and now the installation of the equipment is virtually complete and already a large proportion has finished its acceptance tests.

The contract included the manufacture, supply and installation of:

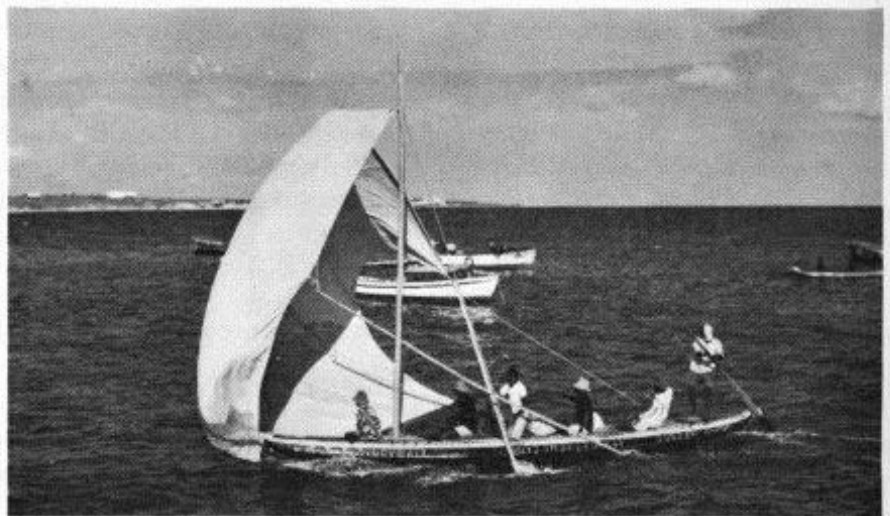
Television transmitting stations at Ajangoti, Jamasi and Kissi.

A television studio complex at Accra.

A large sound transmitting station at Ejura.

A complete microwave link system.

A major factor in the smooth running of this complex scheme has been the helpful



co-operation of the Ghana Broadcasting and Television Corporation.

A fishing boat approaching the shore at Accra, Ghana.