

# IN THE NEWS

## Colour by Marconi

Marconi have been associated with B.B.C. black and white television since 1936 when the world's first public high definition television service was launched from Alexandra Palace.

Now the B.B.C. are due to open a colour service later this year, and the association continues. The B.B.C. have been using Marconi colour cameras experimentally since 1955 and have recently ordered a further four of the latest Mark VII colour cameras to add to the thirteen they ordered last year.

*For ITV too.* In preparation for the new ITV colour service, twenty-nine Mark VII's are to be supplied to four programme companies, ABC Television, ATV, Granada, and Rediffusion. This brings the total sales of Marconi colour cameras in the United Kingdom to over fifty.

## Educational television service for London schools and colleges

The first studio equipment for an Education television service, covering 1,300 schools and colleges in Inner London, is currently being supplied by the Company. A television centre, initially with two studios, is being established at Laycock School in Islington by the Inner London Education Authority, the start of a scheme which will be the largest closed circuit system in the British Isles and one of the most advanced and ambitious in the world.

In the last few years, the Company has supplied equipment, and undertaken installations in over thirty universities and colleges throughout the country. By 1971 it is estimated that in London alone over a million school children and students will be able to view transmissions derived from Marconi cameras and television equipment.

## Marconi transmitter powers new Harwell cyclotron

A Marconi 250 kW broadcasting transmitter is now in operation at Harwell, as part of one of the most versatile variable energy cyclotrons in Europe. This is the first time that high power broadcasting equipment has been used in a cyclotron, and after extensive tests scientists have now established the suitability of the transmitter in this application.

The cyclotron, which is 70 inches in diameter, will accelerate beams of charged particles to high energies—sufficiently powerful to smash the atom, and make materials intensely radioactive. One of its applications will be in research work on materials used in the construction of nuclear reactors, which must withstand massive doses of radiation, and it will reduce the time taken to conduct some of these tests from months to minutes.

It has taken nearly four years to complete the planning, development and construction work for the cyclotron, which is built to the latest scientific specifications. Over the last few months the transmitter has taken in operational experiments. In these its high-stability and reliability, have proved it to be a suitable source of power for this type of particle accelerator.

## Another M.I. world leader

In the last two years orders totalling £300,000 have been received for the TF2002 solid-state signal generator, which is one of the most advanced signal generators of its type at present available.

## New distributors

The Signal Company, Tripoli, Libya, and Baerlocher A.G., Zurich, Switzerland have recently been appointed distributors for Marconi Instruments.

## Advance in low power mini-oscillator design

The Specialized Components Division have announced a new range of miniature master oscillators with a micro-circuit device giving one part in one hundred million accuracy.

The new range embodies a revolutionary temperature stabilization technique employing a microelectronic circuit, which is used purely for stabilizing the temperature of the crystal.

The first model, Type F3180, is designed to operate in a very wide temperature range,  $-55^{\circ}$  to  $+90^{\circ}$ C, and can be supplied pre-set to any frequency between 10 and 15 MHz. In order to ensure that the power consumption of the oscillator is low, the whole crystal assembly has been designed so that a minimum of heating is required to keep the temperature stable.

The entire oscillator, except for the microelectronic element, was designed and built by the Hackbridge Works.

## Myriad for road-traffic experiment

A Myriad computer has been installed in the Road Research Laboratories of the Ministry of Transport to control the traffic in the busy streets in central Glasgow.

The Myriad will provide the central process control facilities for an experimental system, which is aimed at assessing different methods of area-traffic control. The experiment will cover about one square mile of the crowded central, business and shopping district, an area which includes four bridges over the Clyde.

## AD 370s for Britannia Airways' new Boeings

Britannia Airways have ordered the latest crystal controlled direction finding equipment from the Company for the four Boeing 737 aircraft which they have recently bought. These aircraft, three of which are due for delivery in the spring of 1968, will be fitted with dual Marconi direction finders.