

DEEP SEA TELEVISION EQUIPMENT



LEVISION

QUIPMENT

light levels as low as 0.5 foot-candle. This Tube forms the basis of the standard Pye Television Camera Type 2014, and it was therefore decided to employ a modified version of this camera for the new deep-sea equipment.

Certain other features inherent in the design of the Pye Type 2014 Camera make it particularly suitable for this application. The servo-operated optical focusing system is remotely controlled, as are the electrically operated four-lens turret and iris control mechanism, allowing all optical adjustments to be carried out with ease and precision from the Camera Control Unit aboard the surface vessel.

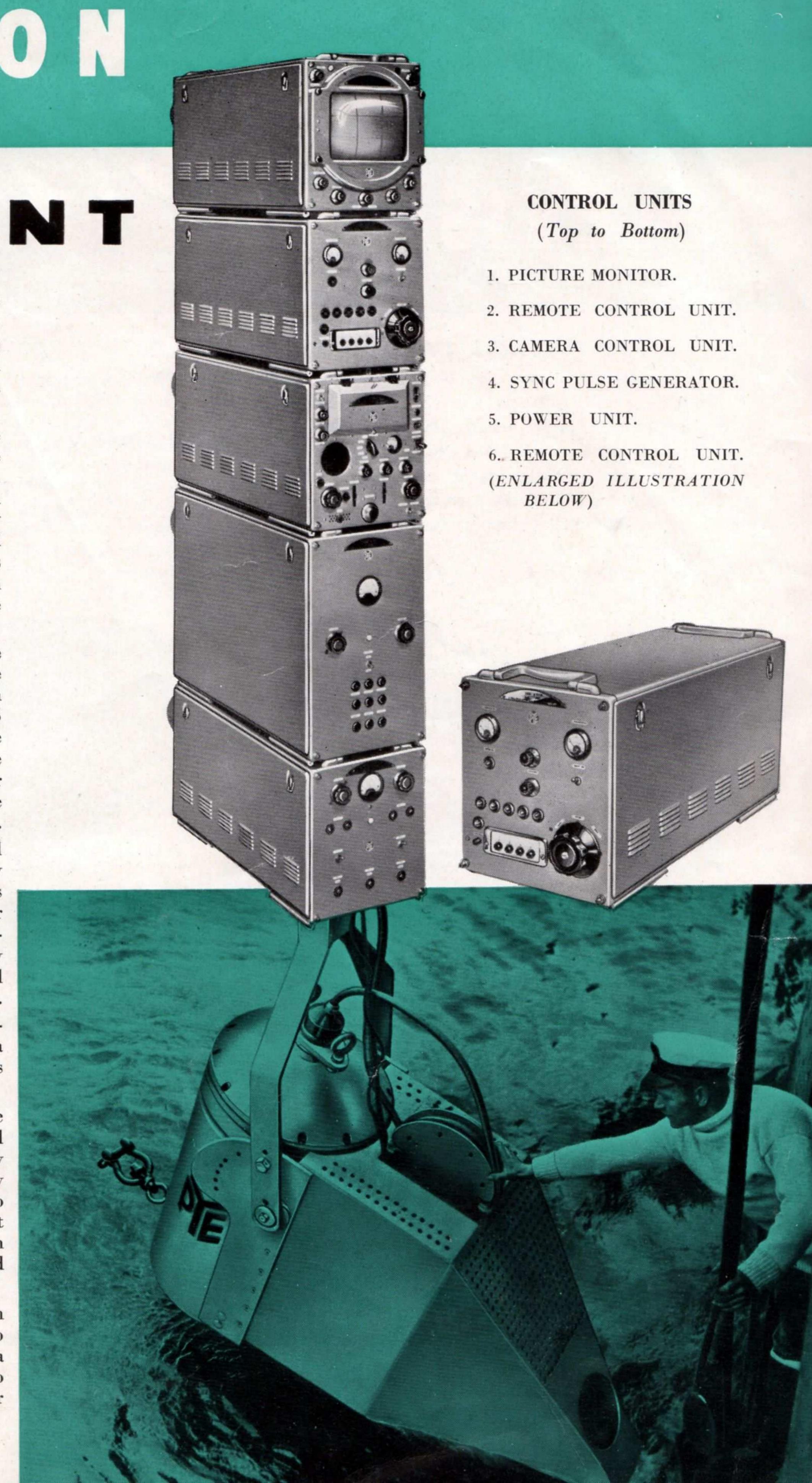
Complete mechanical control of the camera's direction can be effected from the surface. The camera's angle of elevation through an arc of approximately 115 degrees can also be controlled from the surface, or it may be preset before the camera is lowered under water. For purposes of static observation the entire camera unit may be mounted on the sea bed.

For illumination, either a standard Admiralty-pattern diver's lamp or a recently developed cold-cathode type of lamp is housed in the specially designed outer casing of the equipment. Further illumination may be supplied by individually controllable lamps mounted on a special framework attached to the camera casing.

A self-contained cathode ray tube picturemonitor gives the Control Unit operator a constant critical check on the camera's performance.

When the camera is in operation the televised under-water pictures are viewed by the control personnel on the Display Monitor. This, in essence, is a high quality television receiver connected directly to the camera. The brilliance and contrast of the picture appearing on the 14 inch screen permit direct photography for record purposes.

The complete Pye Deep Sea television chain has been installed in the deep diving vessel H.M.S. "Reclaim," and a similar camera has been supplied to the Admiralty Research Laboratories for experimental work.



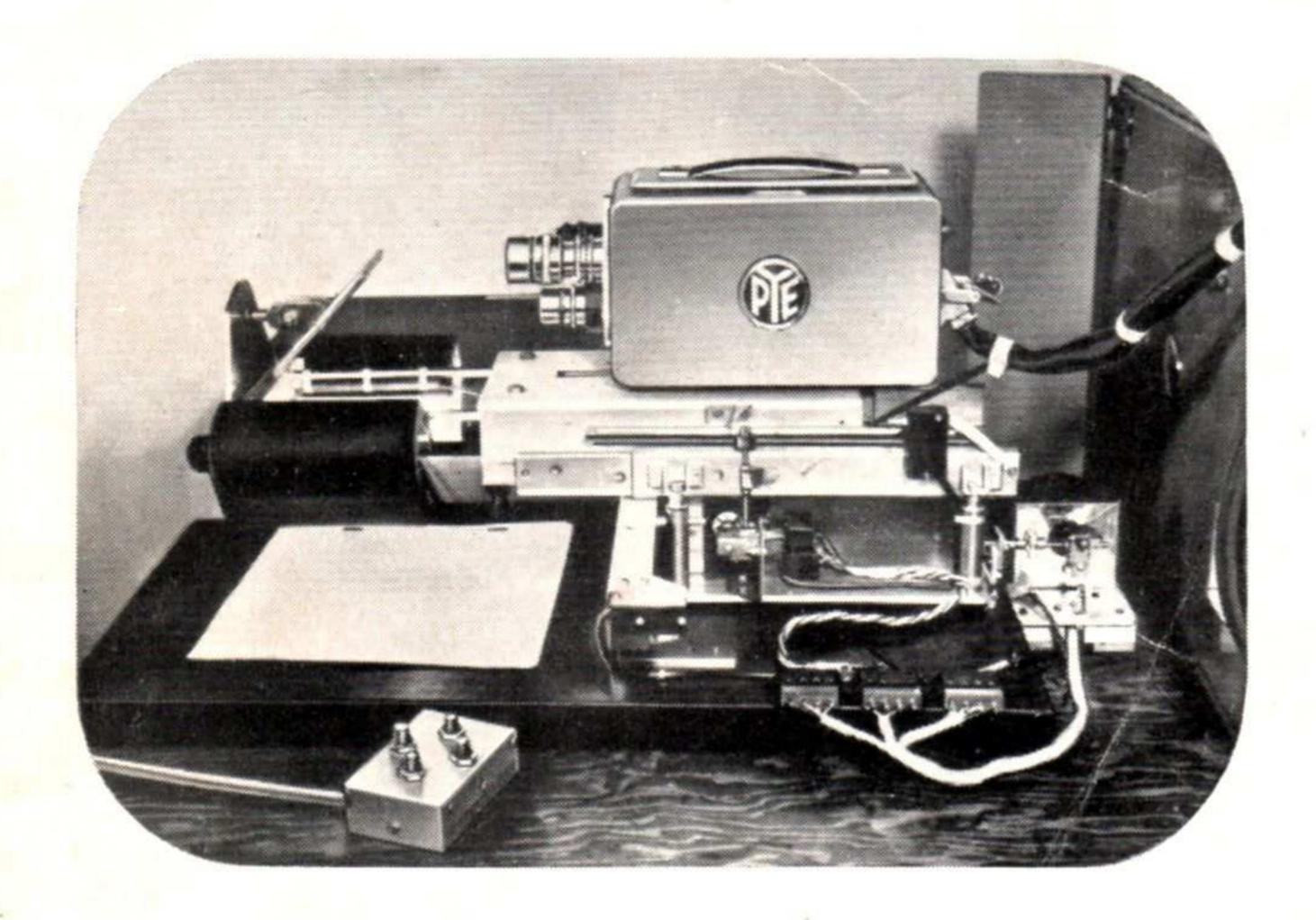
TELEVISION FOR INDUSTRY

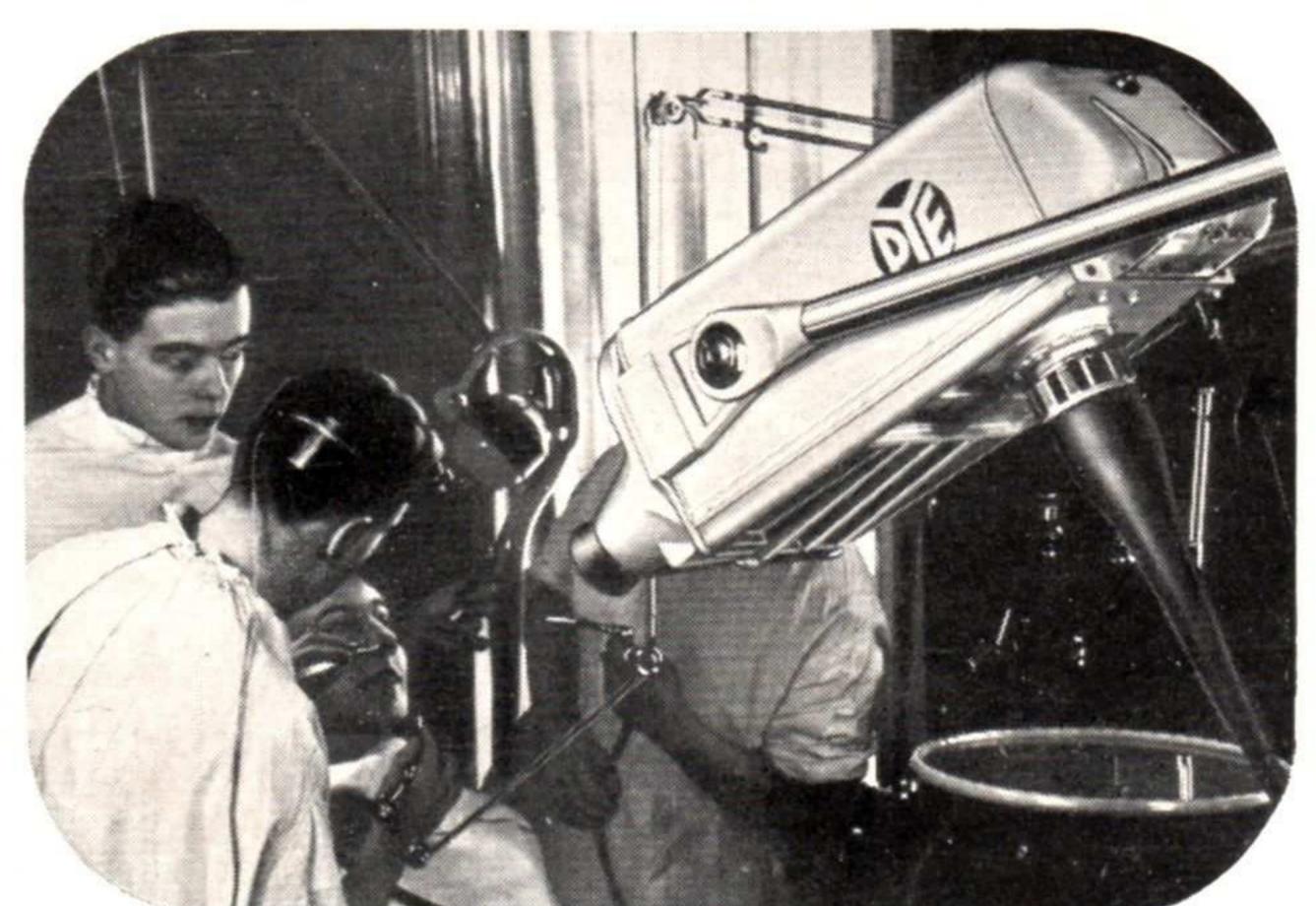
PYE PORTABLE TY EQUIPMENT

At a recent demonstration held at Glynn Mills, the London Bankers, it was shown how a bank manager in the centre of London could inspect a client's account kept ten miles away. The prospects of this new kind of Pye Television equipment are endless. New lightweight cameras and suitcase transmitters, which can be used for dangerous research work, certain types of industrial education, and for naval and military operation, have already been developed in Cambridge.

COLOUR TELEVISION

The Pye system of Colour TV has already proved itself in the fields of medical and dental teaching and has been used at Guy's Hospital and St. Thomas's Hospital in London. Where before only a limited number of students could be admitted into an operating theatre to attend an operation, it is now possible, by the use of Colour TV, for practically any number of students to see details of an operation in an adjoining lecture room. In the field of industrial research Colour TV could also be used to great advantage.





PYE TELEVISION IN U.S.A.

The American Broadcasting Company chose Pye TV equipment for their two new studios in New York. The high speed production required for smooth running programmes calls for equipment which is both adaptable and efficient—features which American Broadcasting Engineers agree are characteristic of Pye products.

This installation is one of many using Pye equipment which have now been completed in the United States. Indeed, the demand is so great that each week a consignment of television equipment leaves the Pye Cambridge factory on its way to New York by air.