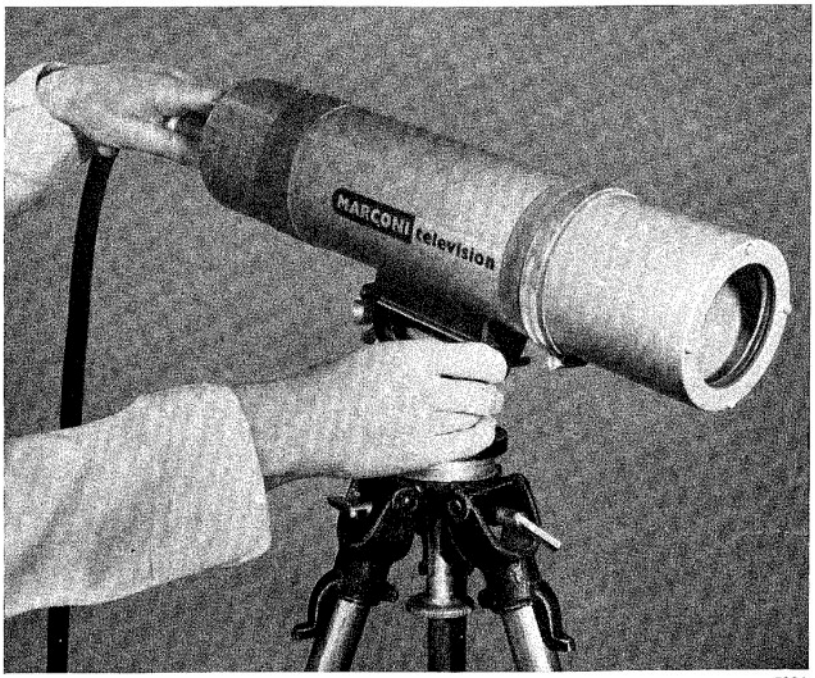
Industrial Television Accessories, for use with Camera Channel Type BD 871



7991

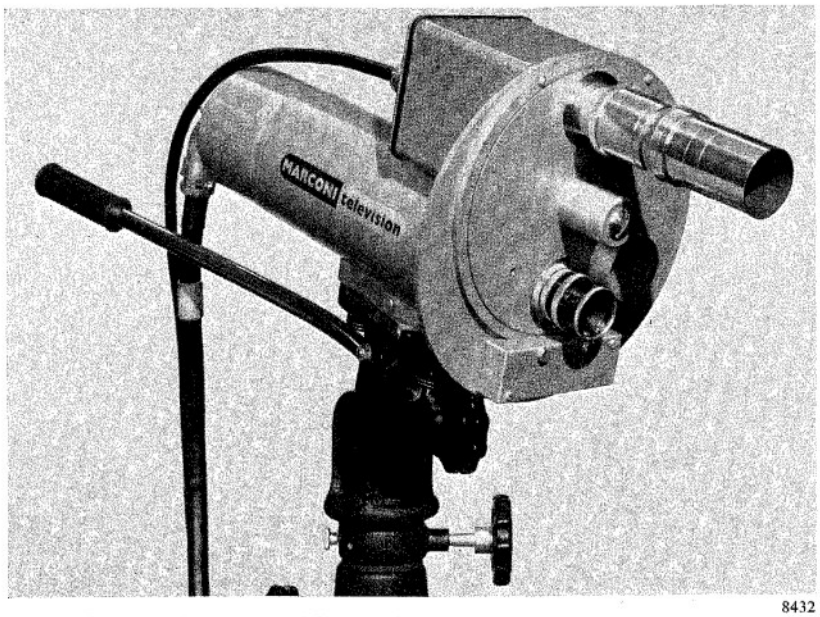
The camera of the Type BD 871 channel fitted with remote focus attachment and protective lens cover.

Remote focus attachment

THIS device can be fitted to the rear of the camera when adjustment of optical focus from the viewing position is required. It comprises a reversible AC motor which is coupled to the focus drive shaft at the rear of the camera through a gear box. The unit is enclosed by a cylindrical cover of the same diameter as the camera and increases the overall length by 3 in. (8 cm). Provision is made for mounting the operating switch on the control panel of the camera control unit.

Lens turret

Mounted on the front of the camera, this unit permits remote selection of either of two lenses from the viewing position. Any pair of lenses of focal length between 10 mm and 150 mm may be used. The operating switch can be mounted on the control panel of the camera control unit.



8432

Camera fitted with lens turret and filter mechanism.

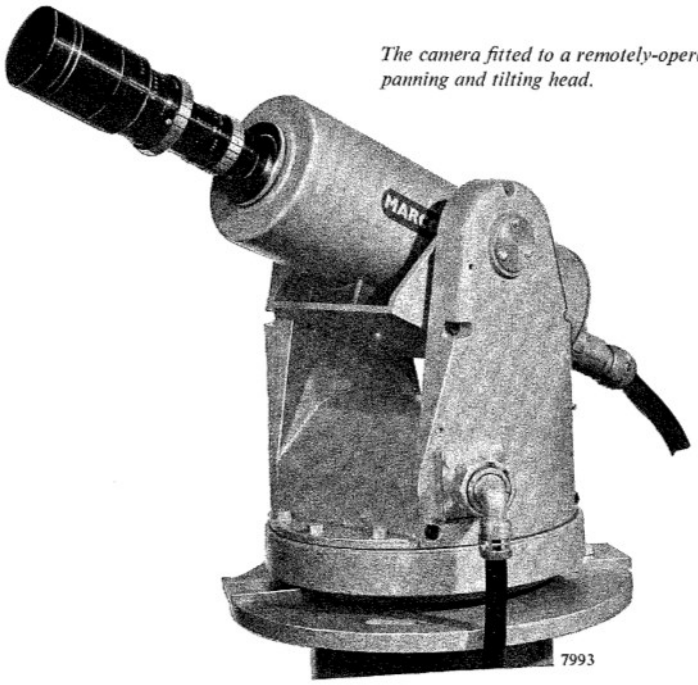
Light filter mechanism

This unit extends the operational range of the industrial camera to higher levels of illumination, enabling it to be used in very bright daylight or with a very high subject illumination. The mechanism has two blades which may be inserted between the lens or lens turret, if fitted, and the vidicon tube. It is operated by a pair of solenoids which are manually switched from the camera control position or automatically by means of a photo-cell. Light control is provided by fitting neutral density filters into the blades, the density being selected to suit the application. The two blades enable a combination of neutral density or colour filters, or both, to be used. Alternatively, the blades may be used to give clear, neutral density, and opaque positions, the opaque position being used on standby operation to protect the vidicon from direct sunlight in outdoor applications. The solenoids are arranged to give 'fail safe' protection in the event of supply breakdown.

Remote pan and tilt unit (medium duty)

This device permits orientation of the camera from the viewing position and employs two reversible electric motors which are remotely controlled. Control is by a four-position joystick mounted on the pan and tilt control unit, the latter being connected to the pan and tilt unit by a twelve-way cable. Ranges of $\pm 45°$ tilt and 270° of pan are provided and, at the limits of both pan and tilt movements, switches are operated to break the circuit to the motors. As a protective measure, the drives from the motors are applied through friction clutches which slip in the event of excessive torque being applied to the unit.

The unit, which is sealed against dust and is moisture proof, is designed to mount a camera fitted with a lens turret, when required.



The camera fitted to a remotely-operated panning and tilting head.

Camera switch unit

In some types of installation where several cameras are employed, the application may be such that a sequential rather than simultaneous monitoring system is required.

In such applications several cameras may be controlled from a single camera control unit by employing a camera switching unit. In a multi-camera installation this unit will allow the selection of up to a maximum of six cameras. Where the installation calls for more than six camera positions, several switching units may be operated in series. The switching may be done manually or automatically according to the requirements of the installation. The unit houses all the necessary operational and preset controls for the individual cameras.

Remote control of the switching enables the switching unit and camera control unit to be sited close to the cameras thus minimizing the total length of camera cable required.

Provision is made for the control of accessory equipment, *e.g.* remote focus, pan and tilt, etc., from a single control panel.

Special accessories

A wide range of special purpose equipment is continually being produced for particular applications.

Specialist engineers are available for consultation and can advise as to the most suitable methods of operation. Photographs of typical special accessories are shown on page 334.

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