Simplex Telecine, 35 and 16 mm Type B 3401

FOR COLOUR OR MONOCHROME

REPRODUCTION of film for television by vidicon telecine is of the highest quality and, in particular, is preferred to the flying-spot system for colour telecine. For example, when the flying-spot system is used for colour telecine, noise beats with the sub-carrier to produce low-frequency noise on the coded picture especially on 16 mm colour film. This does not occur with vidicon telecine.

Features

Highest-quality reproduction of any 16 or 35 mm film.

Remote-control facilities available.

'Controlled-light' optical system.

Compact layout with easy servicing.

EQUIPMENT

Simplex equipment is available for organizations which require high-quality film reproduction of 16 or 35 mm colour or monochrome films.

The improvements embodied in the B 3097 (BD 896) camera, operating with a high wall voltage (see page 66) can be included in a colour camera to produce high-quality pictures.

Simplex colour telecine equipment is based on the use of a Marconi Vidicon Colour Camera Channel and the 35 mm Projector Type B 3430.

The camera and projector are mounted on a substantial base casting to provide an accurate optical bench for the two units. This casting is located upon two supporting pedestals which provide convenient access for the cables to pass from ducts to the two units.

Full remote-control facilities are available on the projector, which is normally equipped with a Marconi Lamphouse. This lamphouse provides full control of illumination level without variation of the colour temperature. A semi-fast pull-down mechanism and pulsed-light unit may be fitted when required.

The film traction mechanism is operated from a mains supply or a projector drive supply unit, housed in a 19-in. (48 cm) rack. This mechanism is driven in synchronism with television field pulses at 25 or 30 frames per second. Provision is made for electrical and manual inching of the film.

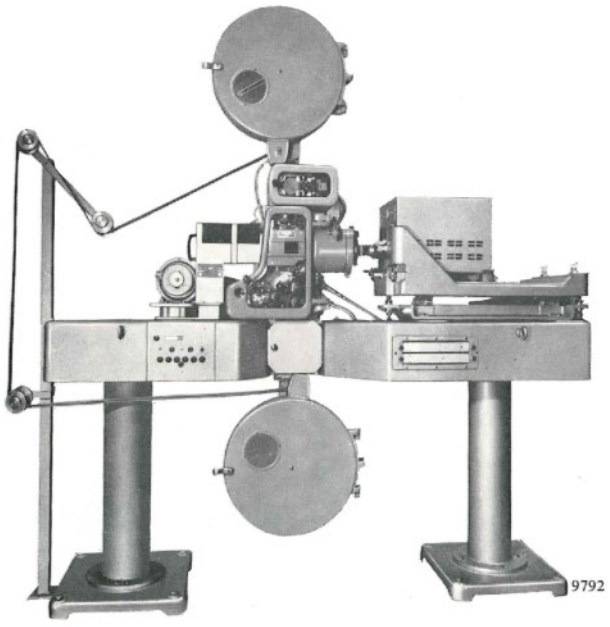
The run-up time from rest to synchronous speed is five seconds. Reverse running is available and can be achieved automatically by the operation of a solenoid when the reverse button is pressed. Whilst operating in this mode the equipment will produce recognizable pictures, but not of broadcasting transmission quality.

COMOPT and COMMAG sound heads may be fitted; the latter unit reproduces track 2 of a 4-track cinemascope film. As the sound precedes picture information by 28 frames, the COMMAG head is brought into operation by a different lacing.

When 16 mm equipment is required, the 35 mm FP7 projector mechanism is replaced by the EL 5001, 16 mm projector mechanism.

The operator's console is formed by two Type B 4311 consoles. One of these contains a B 3900 (BD 873) Picture and Waveform Monitor, and a Camera Control Panel, and the other the projector controls.

The photograph shows a 35 mm Projector Type B 3430 mounted alongside the Vidicon Camera Type B 3097. For colour use the B 3097 is replaced by a Vidicon Colour Camera.



9792

Data Summary

TELECINE 35 MM

Projector supplies: 220–230 V or 380–400 V three-phase.

Projector supply if fitted with Selsyn interlock: 220–230 V, three-phase.

Power consumption:

Monochrome: 1·5 kVA, single-phase.
500 VA, three-phase.

Colour: 2·75 kVA, single-phase.
500 VA, three-phase.

TELECINE 16 MM

Projector supply: 110 or 230 V, single-phase.

Projector supply if Selsyn interlock is fitted: 220–230 V, three-phase.

Power consumption:

Monochrome: 1·75 kVA, single-phase.
500 VA, three-phase.

Colour: 2·8 kVA, single-phase.
500 VA, three-phase.

Marconi

The Marconi Company Limited
Marconi House, Chelmsford, Essex
Telephone: Chelmsford 3221 · Telex: 1953
Telegrams: Expanse Chelmsford Telex