

**SAMUELSON  
EQUIPMENT  
INFORMATION**

# SAMCINEVISION



## SAMCINEVISION IV

A complete integrated T.V. viewfinder and VTR playback system designed and built around the Panavision Silent Reflex camera.

The Panavision camera remains absolutely standard except for the camera door which is exchanged for a door incorporating the Samcinevision IV T.V. camera.

If the Panavision camera incorporates a rotating mirror reflex shutter a vidicon type T.V. camera is utilised to eliminate flicker. If, on the other hand, a pellicle reflex system is fitted to the film camera a Plumbicon T.V. tube may be used to advantage.

The Samcinevision T.V. door incorporates all the normal Panavision viewfinder facilities — i.e. zoom magnification, spherical or anamorphic format, cameraman's viewing filters etc.

Samcinevision IV may be used with either a spinning mirror or a pellicle reflex system. The Director of Photography may, therefore, choose whichever is most practicable, that is a spinning mirror under normal circumstances or a pellicle for motion picture front projection shooting when advantage of having a combined picture compensates for the loss of light.

The sole connecting cable from the camera is a lightweight co-axial, no more than 3/8ths of an inch thick, which plugs into the same 36 volt battery which supplies the Panaspeed motor.

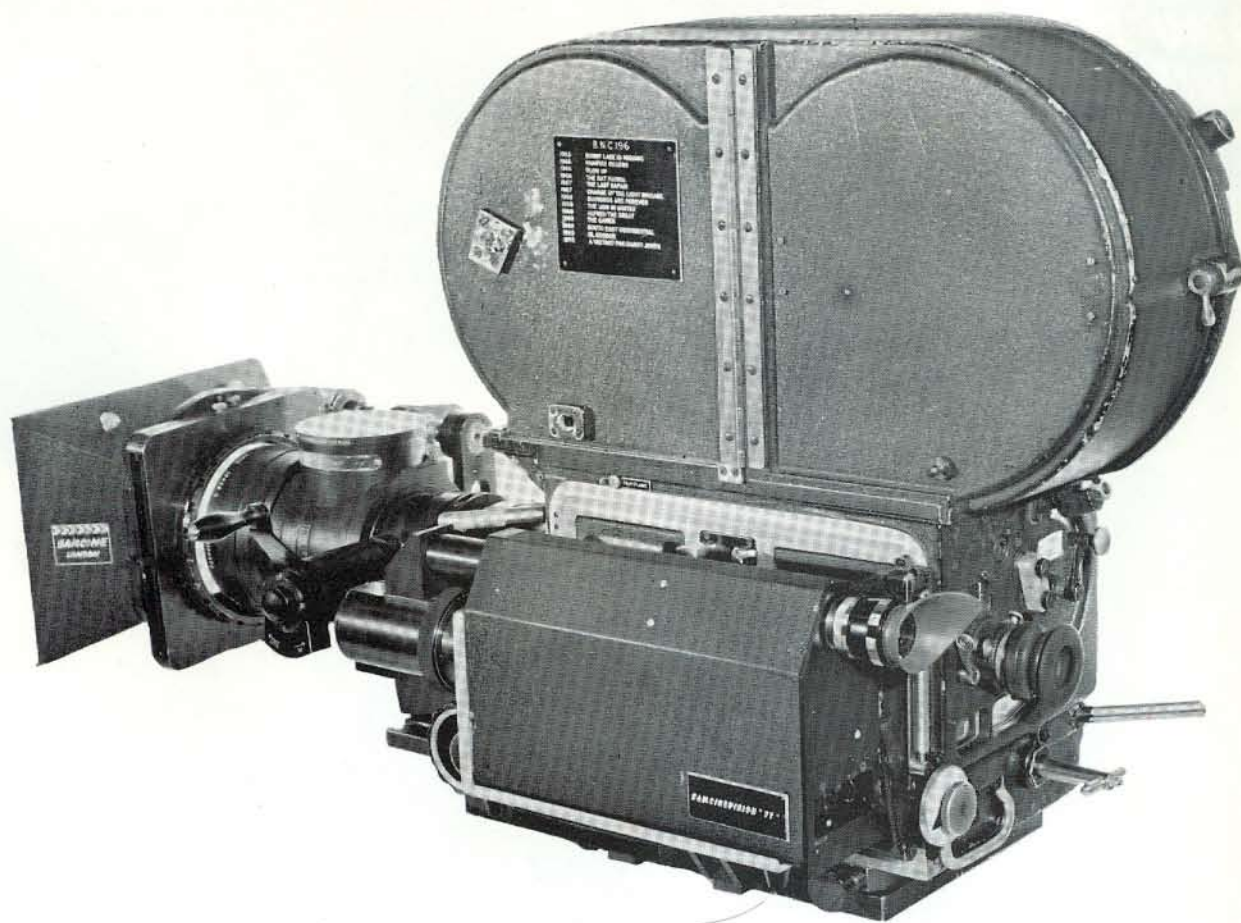
The T.V. camera incorporates an automatic gain and no separate control is required.

From the Panaspeed battery box another thin co-axial cable may be taken to a battery powered T.V. monitor which may be mounted on the camera dolly or elsewhere for convenience.

An anamorphic picture may be selected on the monitor by the flick of a switch.

During a take a lightweight cable is plugged into the battery box and connected into a silent helical scan V.T.R. machine. Immediately after the take the tape may be played back on the director's monitor, fed complete with sound, by the same cable that was used to feed the original signal to the V.T.R.

As many other monitors as required may be connected into the system.



## SANCINEVISION I

A T.V. viewfinder system used in conjunction with any Mitchell BNC, BNCR, SPR or NC camera fitted with an Angenieux 24-240mm zoom lens.

The Angenieux 10 x 24 lens incorporates a reflex beam splitter which bypasses 15% of the light passing through the lens onto a ground glass screen. This image is again divided, half passing to the face of a Plumbicon or Vidicon T.V. tube and the other half passing to an optical viewfinder for the use of the camera operator.

### Features:

1. May be used on all Mitchell cameras without any modification whatsoever to the film camera
2. A special support system allows the Angenieux 10 x 24 lens and T.V. camera to be mounted or de-mounted quickly and easily.
3. A slide allows the camera to be precisely balanced for operating comfort.
4. Camera operator retains normal through the lens optical reflex viewing
5. Regular BNC camera retains normal rack-over and magnification facilities for focusing purposes.
6. A bright white frame line of any ratio may be superimposed on the normal black line etched on the ground glass.
7. Operators monitor may be fitted to side of magazine blimp housing.
8. T.V. camera hinges clear of the camera door during film re-loading.
9. The system may be connected to any number of monitors and/or a VTR machine by a single thin co-axial cable.





## SAMCINE II

A T.V. viewfinder system used in conjunction with a Mitchell S35 MkII camera which may be fitted with any lens suitable for that camera.

The normal reflex viewing system of the camera remains completely unaltered up to the point of the eyepiece, which has been re-designed to incorporate a four position beam splitting device which may divert all or part of the available light to a Vidicon T.V. camera set across the rear of the Mitchell.

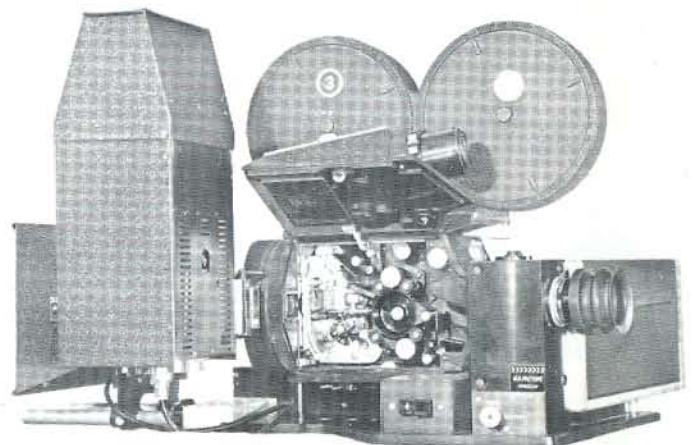
The beam splitting disc may be set to divide the viewfinding light in any of the following ratios:—

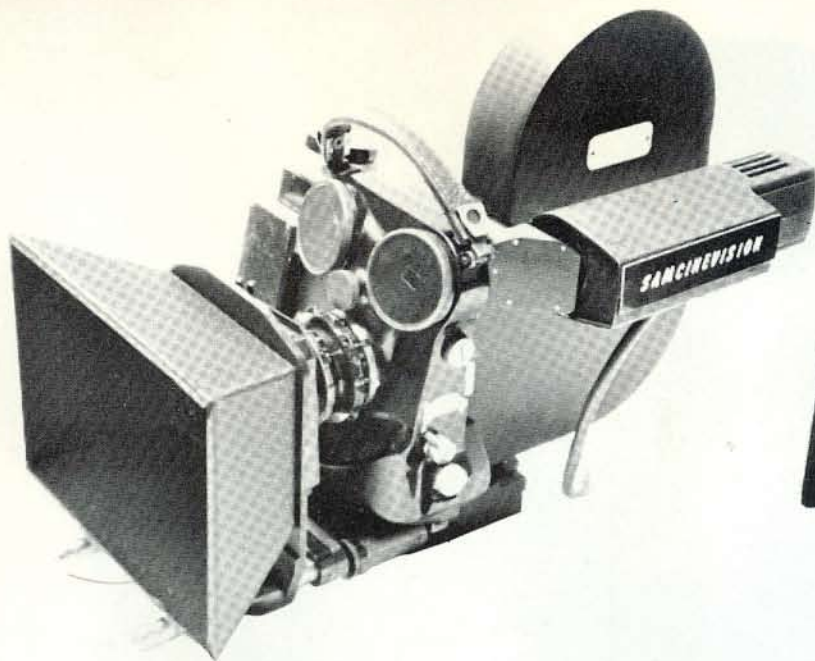
1. All the light passes directly to the optical eyepiece and none to the T.V. camera. This gives optimum brilliance to the operator when he is focusing the lens.
2. All the light is diverted to the T.V. camera. This gives optimum T.V. quality. The operator may then work with the aid of a small monitor set on the side of the film camera in much the same way as the normal Mitchell side viewfinder, but of course without the parallax errors.
- 3 & 4 The available light can be divided in a ratio of 60 : 40% either way. Prevailing conditions will dictate which is the better ratio to select.

Advantages:—

1. Mitchell S35 MkII camera remains absolutely unmodified except for the rear optics of the viewfinder system. For convenience an exchange door is fitted.
2. Camera operator has choice of optical or T.V. viewing, or a combination of both may be selected.

3. Any lens, anamorphic or spherical, wide angle, telephoto or zoom normally suitable for the Mitchell S35 MkII may be used.
4. Lightweight and portable, the entire system may be mounted or removed from the camera in a matter of seconds.
5. An operator's monitor may be fitted to the normal Mitchell side viewfinder shoe and swung clear during reloading. It may be adjusted to any angle operating in awkward positions.
6. The system may be connected to any number of monitors or a VTR machine by a single thin co-axial cable.





### SAMCINEVISION III

A small vidicon T.V. camera mounted onto an Arriflex IIC door or Eclair CM3 Cameflex in place of the normal optical system. As this system is designed for use on occasions when a small lightweight camera is required to be controlled remotely, it is not necessary to provide simultaneous optical viewing.



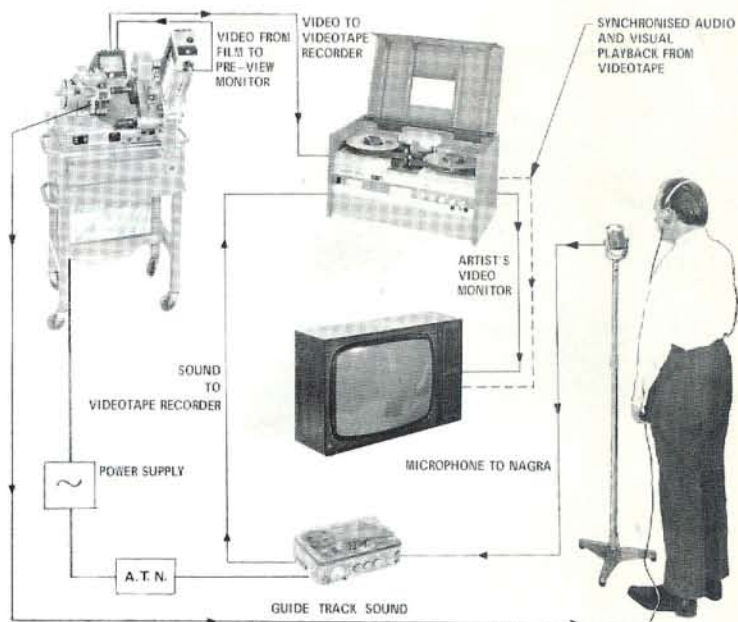
### SAMCINEVISION V

A multi camera T.V. viewfinder system built around Angenieux 10 x 12 mm reflex lenses which may be fitted to Auricon or Eclair NPR or ACL cameras.

### SAMCINEOLA

A T.V. camera fitted to a Moviola editing machine to provide a simple and inexpensive tele-cine system.

Uses to which such a system may be put include simulated preview of combined process shots, frame holds for matching shots, instant post production dialogue dubbing and as an aid to composers of film and T.V. music.



The design and construction of the Samcinevision range of T.V. Viewfinder systems have been carried out by Joe Dunton T.V. Viewfinder Systems Engineer, David W. Samuelson Technical Director and the Engineering department of Samuelson Film Service Limited of London, England.



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