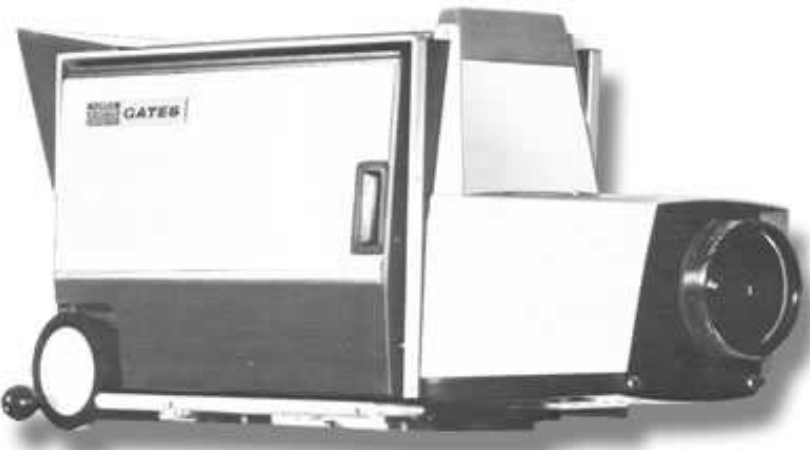


European and American Television Cameras

| | | |
|---|---|-----------------|
|  | Make | Harris * |
| | Model | PE-400 |
| | Country | USA |
| | Camera Type : Studio lead oxide color camera. | |
| | Camera Description : Large 4 tube colour camera with drop down panels for access. Integrated lens cowling with flare leading to cue light at the front of the camera. | |

| Data | | Data | |
|---------------|-------------------------------------|-------------------|-------------------------|
| Tube details | 4 x 30mm. Lead Oxide | Line standards | 625/50 525/60 |
| Lens details | Zoom 10:1, 15:1, 18:1 Angenieux (2) | Colour standards | R,G,B (Y) to ext. coder |
| Sig. to Noise | 46dB in 4.2 MHz bandwidth | Drives or locking | 4 standard drive pulses |
| Sensitivity | 500 lux @ f2 | Weight * | Not stated (1) |
| Resolution | 600 lines claimed | Colours | |
| Viewfinder | 8 inch, tilts, | Dimensions * | H x W x L mm. |
| Camera cable | TV81 (27mm. Ø) to 2000ft. | Date introduced | Circa 1966 |
| Power supply | 105-130 volts 50-60Hz. 375 watts. | | |

*Excluding Lens & Viewfinder

Associated equipment

Large console with the control equipment containing power supplies, control panels, coders, monitors etc.

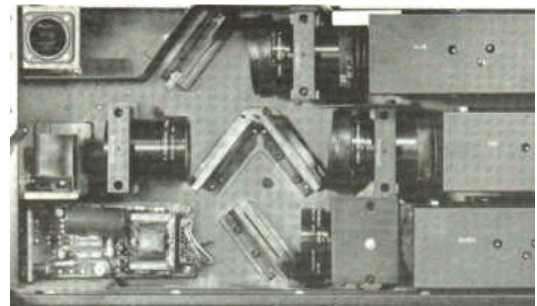
Features

FET preamplifiers, "Auto Trast" highlight overload system, use of scan reduction on colour tubes, extensive use of ICs, subtractive color technique for registration line-up.

General description

The fold down camera sides expose the 3 color yokes with the relay optics and color separation on one side with the luminance tube and yoke on the other side.

There are numerous setting up controls and a meter for system voltage checks. Some of the control panels hinge out for better access. The lens controls are by mechanical drive shafts from the rear of the camera, one of the controls is visible in the picture above.



The light splitter and the relay lenses

References

Innovations

The "Auto Trast" system slices the video signal and applies automatic gain control to the voltages above the slice level. It is interesting to see that Sony uses a similar system in today's cameras called "Auto Knee"

History

Notes

* Gates Division, Harris-Intertype Corporation, USA

(1) It would have been a very heavy camera, but a lot less than say the RCA TK-42.

(2) Two lens range extenders (2X & 3X) are stored under the camera top cover.