KAY LAB

BROADCAST CAMERA CHAIN

TELEVISION
STUDIO
CONSOLE

KAY-LAB BROADCAST CAMERA CHAINS

KAY-LAB Broadcast Vidicon Camera Chains are designed to provide the ultimate in high performance at moderate cost. The system is ideally suited for film pick-up, studio and remote operations. The use of KAY-LAB accessories allows complete remote camera control of pan and tilt and lens iris and focus. KAY-LAB Camera Chains can be added to present station facilities without requiring additional personnel. The camera is designed to use economical 16mm lenses.

The Broadcast Unit consists of a Camera and Camera Control. The small compact camera contains a double cascode video pre-amplifier and vidicon pick-up tube. Electro-magnetic focusing and electrical centering are incorporated. The output from the Camera is fed to the Camera Control unit which includes the video line amplifier, deflection chassis and electronically regulated power supply. These three sections are fabricated from removable modular sub-assemblies. Keyed clamps, and adjustable black level clamps are combined in the video amplifier strip. In addition, amplitude and phase aperture correction circuits are used. This video line amplifier has an overall band width in excess of eight megacycles.

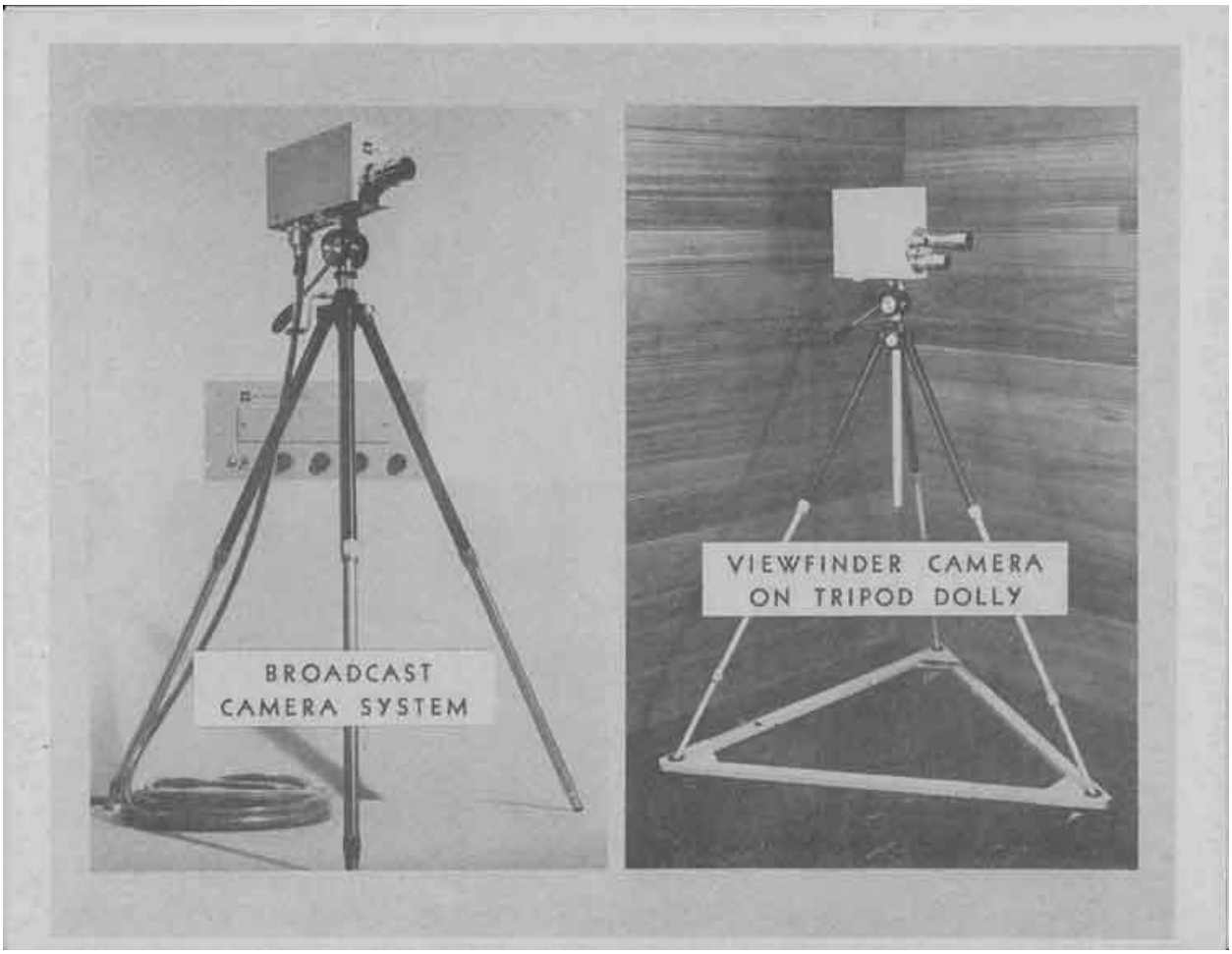
The deflection chassis is operated from standard negative horizontal and vertical driving pulses and negative mixed blanking. The dynamic focus unit is also housed on this chassis. The electronically regulated power supply affords stable operation regardless of line and load variations.

KAY-LAB's small cameras allow for direct pick-up from a group of projectors providing separate preview of each film chain. Small light weight design results in the ideal system for field pick-up use. The high quality of the system makes it an excellent unit for studio live and slide pick-up. The low cost makes it the perfect system for standby video originating equipment at remote transmitter sites.

KAY-LAB Studio Consoles make one man operation possible. These units provide full remote control of studio cameras including pan, tilt, lens iris and focus control from a single position. All electrical adjustments to the camera are performed from the Camera Control unit.

Studio Consoles contain.....High Resolution Monitor....."A" Scope.....
Camera Control Unit.....Switcher Fader Unit.....Remote Pan and Tilt Unit
.....Remote Lens Iris and Focus Control Unit.....Audio Control Unit.

KAY-LAB has combined high performance and low cost. KAY-LAB's years of engineering experience in the field of precision laboratory instruments results in this optimum combination of laboratory quality with rugged durability.


BROADCAST
CAMERA SYSTEM
VIEWFINDER CAMERA
ON TRIPOD DOLLY

KAY-LAB BROADCAST CAMERA CHAIN SPECIFICATIONS

GENERAL SPECIFICATIONS

Camera:

- Double cascode video amplifier
- 8 megacycle band width
- Electro-magnetic focusing
- Deflection reversing switch
- Tally Light
- Inter-communication circuit

Camera Control:

Video Line Amplifier

- 8 megacycle band width
- Aperture Correction
- Keyed Clamps
- Adjustable black level clamps

Deflection Chassis

- Horizontal and Vertical Deflection Chassis
- Horizontaland Vertical Blanking Amplifiers
- Dynamic Focusing Circuit

Electronically Regulated Power Supplies

- High gain amplifier
- Series tube stabilized
- Low DC and AC output impedance

Operative Controls

- Pedestal
- Target
- Beam
- Video Gain

Non-Operative Controls (Accessible through removable front Plate)

- Focus
- Dynamic Focus
- Horizontal Linearity
- Horizontal Size
- Vertical Size
- Vertical Linearity
- Vertical and Horizontal Centering

ELECTRICAL SPECIFICATIONS

Input Power:

- Line voltage. . 105 to 125 volts, single phase
- Line frequency. 60 cycles, single phase
- Line current. . 3 amp.
- Power . . . . . 300 watts

Input Signal:

	Volts (Peak to Peak)	Frequency In Cycles Per Second
Horizontal Drive - (Negative)	4 volts	15,750
Vertical Drive - (Negative)	4 volts	60 cycles
Mixed Blanking - (Negative)	4 volts	Standard RMA

Output Signal:

- Picture Components . . . 1 volt
- Blanking set-up. . . . . 0 to 100%

Frequency Response:

- Camera in excess of 8 megacycles
- Line amplifier in excess of 8 megacycles

Horizontal Resolution:

- In excess of 600 lines (with 6326 Vidicon)

Spectral Response:

- Similar to that of the human eye.

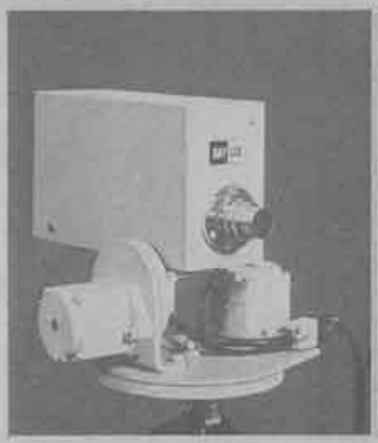
Sensitivity:

- 50 to 100 ft. candles normally required.

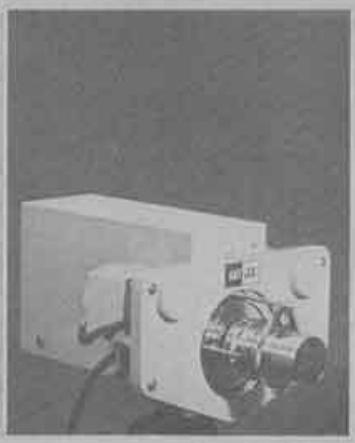
Impedances:

- Input synchronization . high impedance
- Output Picture. . . . . 75 ohms (can be terminated at camera control or end of line)
- Lens Mount. . . . . 16mm Type C (Can be used without lens for direct attachment to projector)
- Camera Dimensions . . . 9-1/2"L x 3-1/2"W x 5-1/4"A
- Camera Control Dimensions 19"W x 8-3/4"H x 13-1/4"D

KAY-LAB, 1090 Morena Blvd., San Diego 10, Calif.
Representatives in all major cities



REMOTE
PAN-TILT
HEAD



REMOTE
LENS
CONTROL

REMOTE
PAN-TILT
AND LENS
CONTROL

KAY-LAB TELEVISION CAMERA ACCESSORIES

KAY-LAB manufactures a complete line of specially designed accessories for use with camera chains. These units are designed to increase system flexibility at moderate cost.

REMOTE MONITORS: Ten, seventeen and twenty-one inch.....8 megacycle video amplifiers.....linear deflection systems.....aluminized tubes operated at maximum voltage for optimum brightness and contrast.

REMOTE CONTROL UNITS -

Remote Pan and Tilt.....290° remote panning.....90° remote tilt .....110 volt 60 cycle input

Remote Lens Iris and Focus.....controls both iris and focus..... no permanent attachment to lens.....rapid lens interchange

ELECTRONIC VIEW FINDERS -

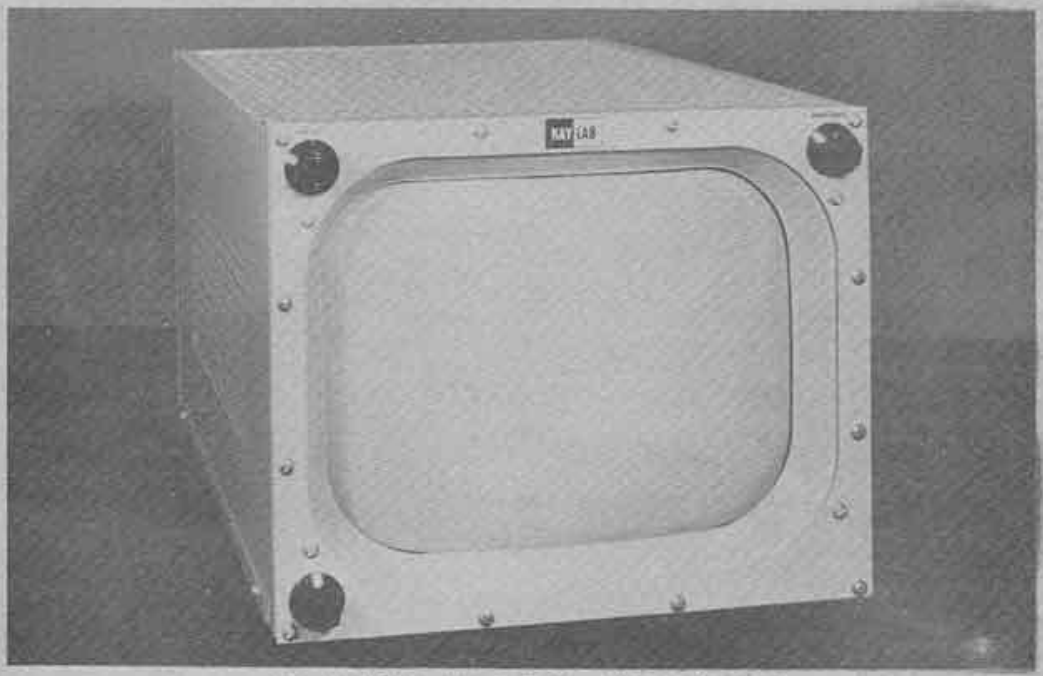
THREE INCH VIEW FINDER: Mounts on camera.....overscan switch effectively produces 6 inch scan for center optical focus.....

FIVE INCH VIEW FINDER: Camera "slips" inside.....provides side focus "knob".....4 lens turret.....turret handle on back of view finder.....wide band video amplifiers

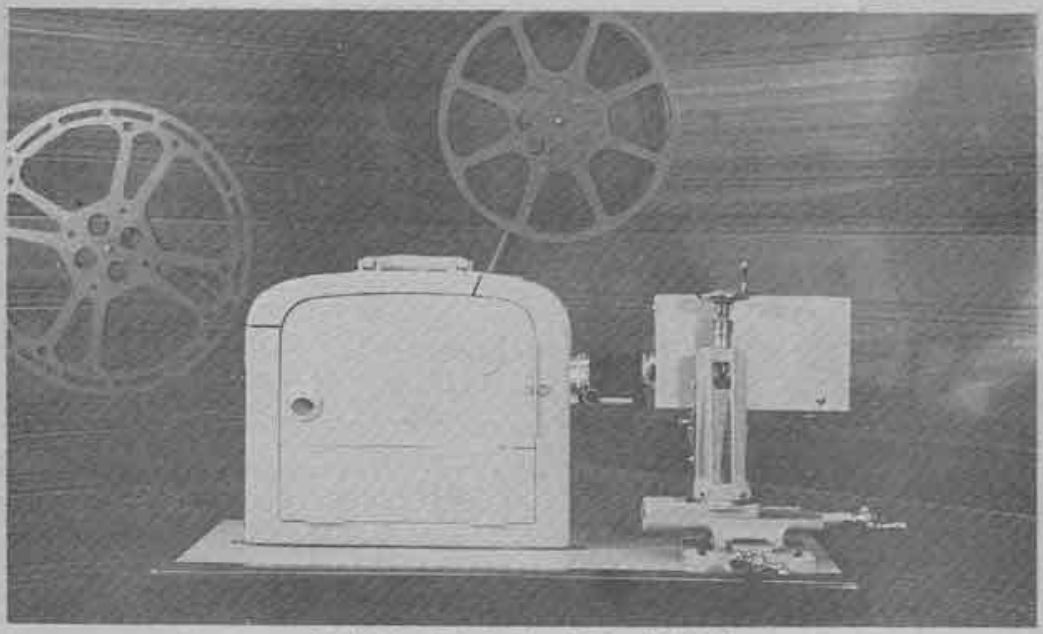
RF MODULATORS: Convert video output to RF frequency of commercial TV channels.....small unit attaches to camera control.....rack mounted units provide audio-video mixing as well as RF modulation.

LENS: Wide variety of inexpensive high quality 16 mm lens available .....including 20 mm to 60 mm variable focal length zoom type.

TRIPODS, DOLLIES, CABLES . . . . . and all other necessary camera accessories.



17 INCH VIDEO MONITOR



FILM PICK-UP UNIT

KAY-LAB TELEVISION SYSTEM

Broadcast System:

Camera, Camera Control including aperture correction and dynamic focusing, 25' of Control Cable with a 6198 Vidicon.	$2200.00
Camera, Camera Control including aperture correction and dynamic focusing, 25' of Control Cable with a 6326 Vidicon.	2450.00

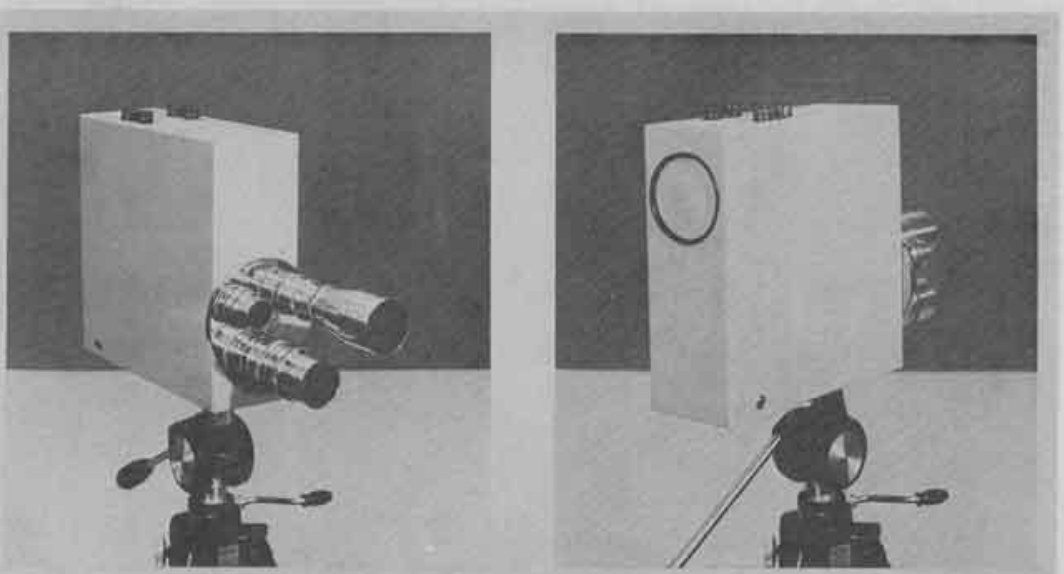
Accessories:

Ten inch remote video monitor	350.00
Seventeen inch remote video monitor	425.00
Twenty-one inch remote video monitor.	550.00
Modulator for any one Low Band TV Channel (2-6)	100.00
Audio-Video mixer and modulator for any TV Channel (2-13)	600.00
Tripod.	50.00
Turret for three lens operation	150.00
Remote control for lens iris and focus.	250.00
Remote control for camera vertical and horizontal positioning	250.00
Two channel switcher fader.	500.00
A Scope (3").	350.00
Dolly	75.00
Pulse generator (provides driving and mixed blanking pulses).	500.00
Lens:	
1/2" F1.5 Coated Lens.	110.60
1" F1.5 Coated Lens.	146.00
1" F1.9 Coated Lens.	61.30
2" F1.5 Coated Lens.	130.00
2" F2.5 Coated Lens.	74.50
3" F2.5 Coated Lens.	87.50
4" F4.5 Coated Lens.	72.50
6" F4.5 Coated Lens.	98.50
20 to 60 mm Zoomar Type Lens	332.00
Vidicon Tubes (6198).	345.00
Vidicon Tubes (6326).	595.00

Camera Control Cables:

When extra cable is ordered with initial purchase and it is to be in one continuous length, the additional charge is based on the price per foot listed below. If additional cables with separate connectors on either end are desired, add $25.00 to the prices per foot below.

Heavy Duty Industrial and Broadcast Cable: Includes all wires necessary for use of dynamic focusing system and extra shielded pair for intercom circuit. Entire cable has shield and is covered by phenolic jacket - 75¢ per ft.



3 INCH VIEWFINDER CAMERA WITH LENS TURRET