

BLONDER-TONGUE'S "OBSERVER" TV CAMERA (model TVC-1B)

SPECIFICATIONS

OUTPUTS USING RF MODULATOR

- A. Two 75 ohm impedance, crystal-controlled, double sideband RF outputs at any specified frequency from TV Channel 2 through 13. Output level: 0.9VRMS.
- B. One direct, high definition, 75 ohm, 0.5 volt peak-to-peak, video output. All three outputs are available simultaneously.
- C. Radio Frequency—Standard negative modulation.
Direct Video—Negative black.

OUTPUT USING VIDEO AMPLIFIER

- A. One direct, 75 ohm, 1.0 volt peak-to-peak negative black video output.
- B. Horizontal resolution exceeds 600 lines.

POWER INPUT

- Voltage—100-130V., 60 c.p.s.
- Power—100 Watts.
- Fuse—3AG, 1.5 A., slo-blo.

SYSTEM STANDARDS

- Horizontal Frequency—15,750 c.p.s. nominal, interlaced.
- Vertical Frequency—60 c.p.s. locked to line
- 60 fields per second
- 30 frames per second

RESOLUTION

- Direct Video Output—More than 600 Lines at center picture.
- RF Output—Up to 350 lines
Maximum, double sideband
(Depends on quality of TV set used.)

For closed-circuit and industrial television, Blonder-Tongue "Observer" systems offer extreme versatility, reliability and economy. Succeeding the already proven TVC-1A "Observer" camera is this improved model TVC-1B. In size and weight, the new model's camera and control generator sections are similar to the TVC-1A.

Heading the improved features of this camera is the incorporation of an interlace bypass switch for continuous operation in the event of minor line frequency variations. Other improvements are a more effective 600 line resolution scanning system, a more precise optical focusing system, positive locking settings on the frequency divider potentiometers, and more convenient operating controls on the sync generator. Installed cost of the TVC-1B is \$1995.

"OBSERVER" FEATURES:

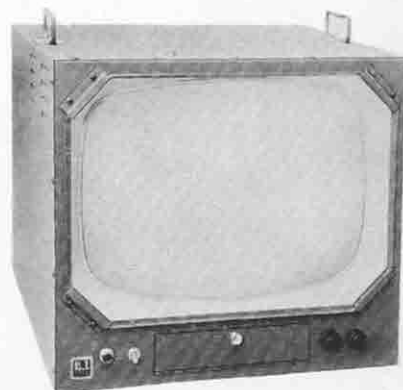
- Self-mixing RF output circuits for multi-camera operation on one coaxial cable.
- Optional automatic light compensator to adjust for continuously changing light levels over a 150-to-1 range.
- Automatic cutoff of vidicon tube in case of sweep failure through vacuum tube type of protector circuit.
- Both front and back porch on horizontal blanking pulse to make sync independent of picture control and cable length.
- Self regulating power supply to control all AC and DC voltages.
- Compensation of vidicon response with R-L type of high peaker.
- Precise optical focusing through external control of vidicon assembly movement.

Optional accessories: video monitors, housings, pan-and-tilt mechanisms, lens turrets, zoom lenses, line amplifiers, distribution systems.

DELUXE VIDEO MONITORS

MODEL DVM-17

Designed for ultimate picture quality and maximum reliability in



- TV STUDIOS • CONTROL CENTERS • LABORATORIES
- MANUFACTURING OPERATIONS
- ALL TYPES OF CLOSED CIRCUIT TV SYSTEMS

- Superior Definition Video response essentially flat to 9 MC.
- Improved Picture Size Stability Exclusive anti-distortion DC restorer and new high stability horizontal oscillator circuit.
- Better Linearity and Focusing New high efficiency 70° horizontal deflection system.
- Ease of Operation Positive operation of all primary and secondary controls. Three unit construction, with removable cabinet bottom plate for easy chassis servicing.



**BLONDER-TONGUE
LABORATORIES, INC.**
9 Alling St., Newark 2, N. J.

- industrial TV systems • master TV systems • high fidelity components
- home TV products • FM-AM radios

In Canada: Telequipment Mfg. Co., Ltd.
P. O. Box 844, London, Ontario

Export: Morhan Export Corp.
458 Broadway, N. Y. 13, N. Y.