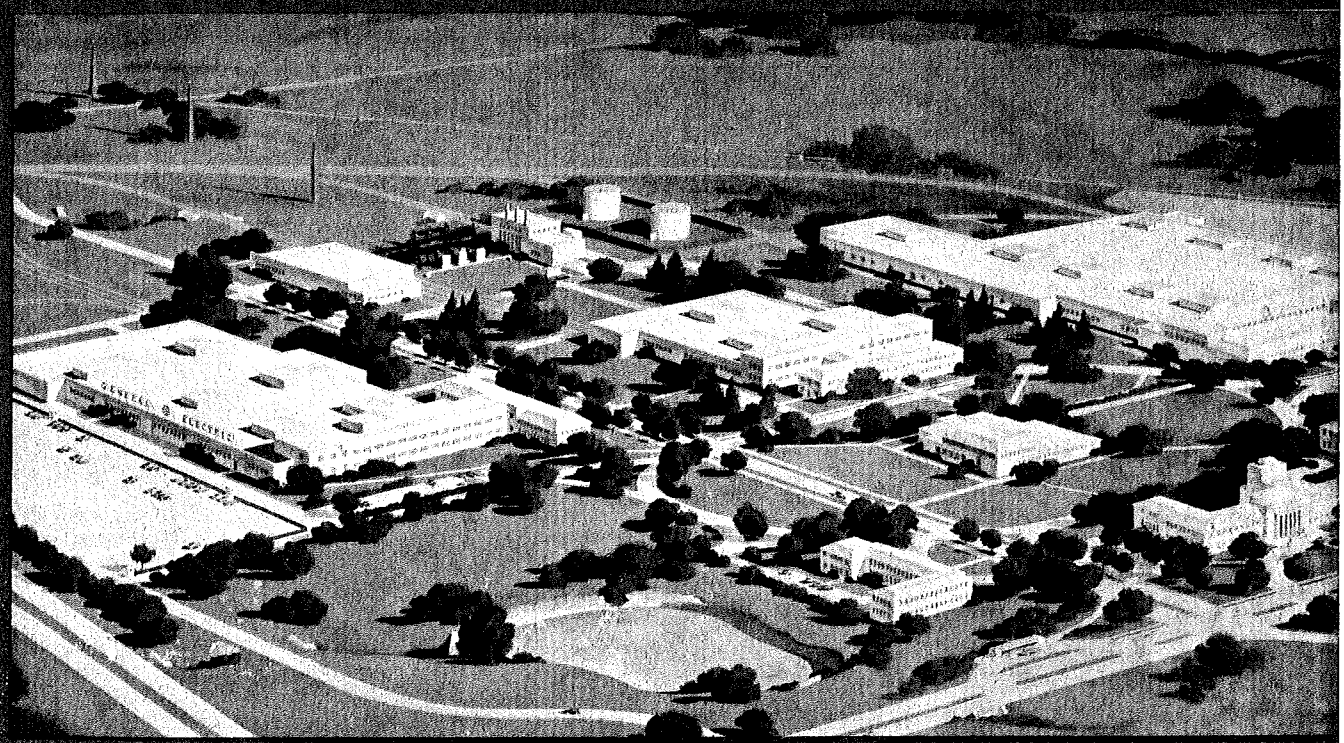
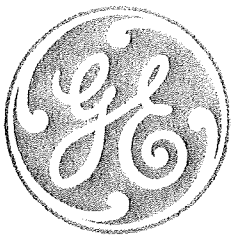
TELEVISION

Performance Engineered by General Electric



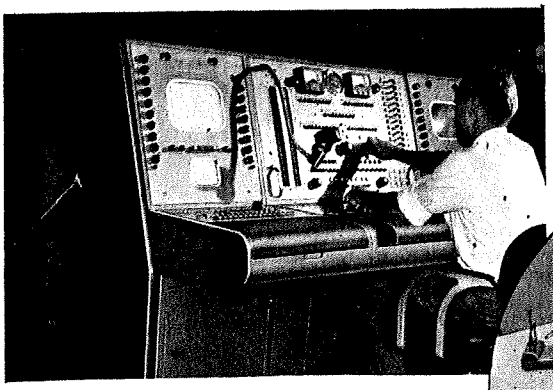


ELECTRONICS PARK

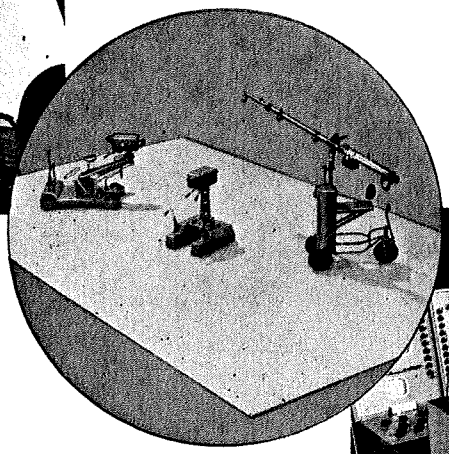
New World Center for Progress Through Electronics

Located on a campus-like site extending over 155 acres, just outside Syracuse, N. Y., General Electric Electronics Park is already in operation. Virtually a city of six thousand, this vast project embraces over one million square feet of floor area in buildings of advanced design providing the world's finest integrated facility for electronics research, engineering, manufacturing, power, employee welfare, education, and administration. Behind its outward "University" atmosphere are the most modern laboratories, shops and production lines of their kind. Planned and built in General Electric's great tradition of leadership, Electronics Park is truly the new WORLD CENTER FOR PROGRESS THROUGH ELECTRONICS.

Be sure your new television equipment is Performance-Engineered at Electronics Park.

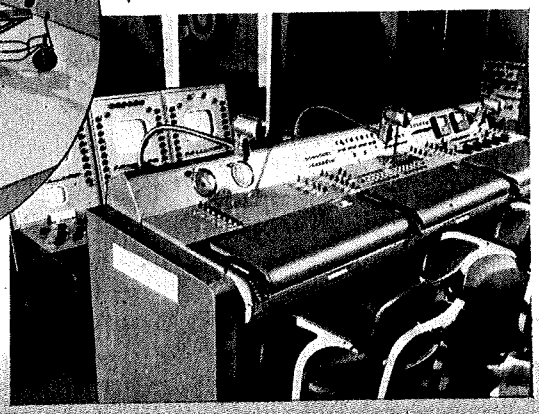


▲
MASTER CONTROL DESK—This equipment group is unique in the television industry—an exclusive G-E development. With it the operator selects from various program sources the material he wants to put on the air. Most important, the switching operation, including both audio and video, is handled by one man, and is smooth and continuous.

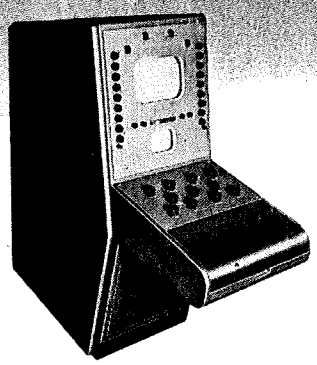


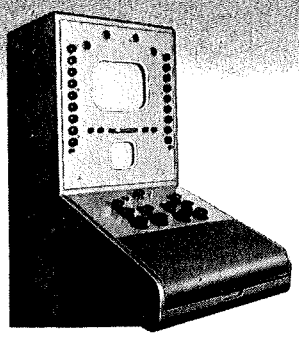
EXCLUSIVE G-E STUDIO CONTROL—These units, program console and camera control desk, assure smoother programming. Here's why: 1) Continuous channel monitoring. 2) Maximum studio visibility for directors. 3) Simplified video and audio control.

▼

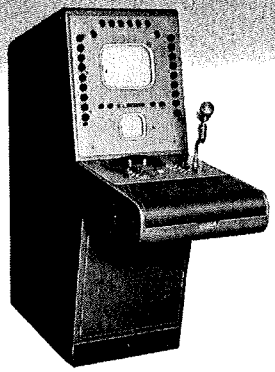


TELEVISION

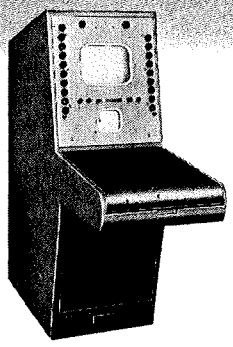




STUDIO CAMERA MONITOR—FILM CAMERA MONITOR—Complete electronic control for studio or film channels are contained in these compact monitoring units. Preview and on-air lights alert operators—reduce errors. Waveform monitors afford continuous control of picture quality.



LINE MONITOR—The first point at which program continuity is visible. Lap dissolves and super-impositions of two channels appear here in their true form.

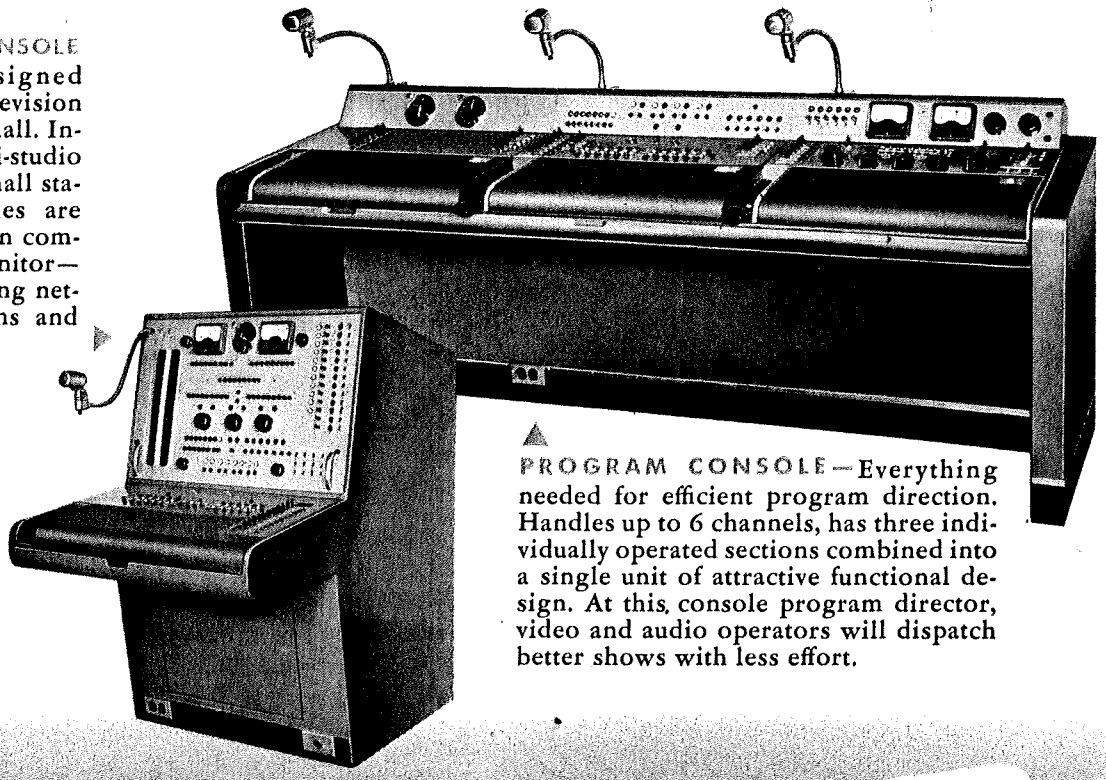


CUE MONITOR—Smooths program changeovers. Facilitates cueing with programs from other sources. Ideal for monitoring throughout the station.

For bulletins or further information write to: *General Electric Company, Box 1162, Electronics Park, Syracuse, New York.*

GENERAL ELECTRIC

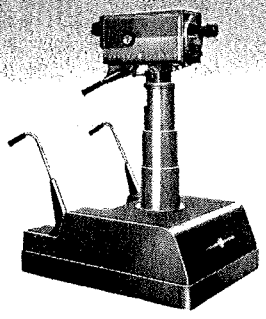
DISTRIBUTION CONSOLE — An expertly designed control center for television stations, large or small. Indispensable for multi-studio operation. In the small station, where facilities are limited, this unit—in combination with a monitor—is capable of handling network, film programs and remotes.



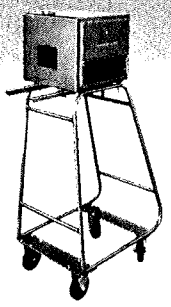
PROGRAM CONSOLE—Everything needed for efficient program direction. Handles up to 6 channels, has three individually operated sections combined into a single unit of attractive functional design. At this console program director, video and audio operators will dispatch better shows with less effort.

STUDIO EQUIPMENT

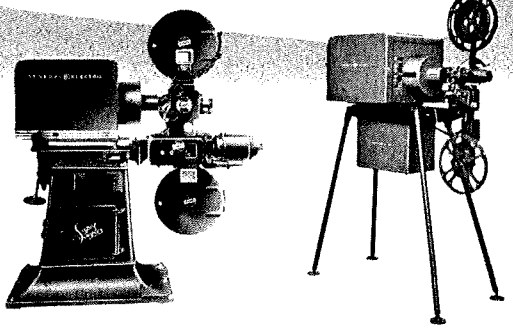
WHAT G.E. MAKES— MAKES TELEVISION



STUDIO CAMERA—This television camera—the lightest ever built for studio application—is operated with fingertip control. Mounted on a mobile dolly, it is easily maneuvered by one man. Camera turret contains three lenses of different focal lengths for varied applications.



FILM CAMERA—Permits rapid moves between projection sources. Easily maneuverable, light, wheel-mounted. Cuts film process costs—can be used with negative film.



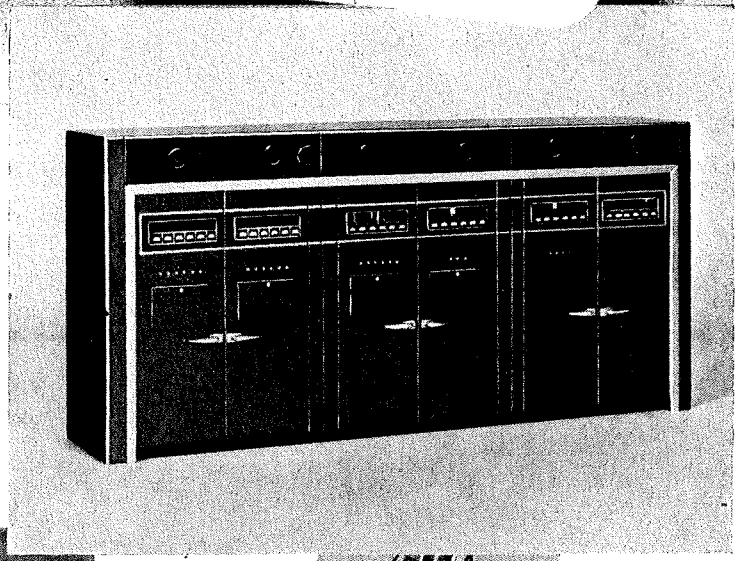
35 MM SYNCHRO-LITE PROJECTOR—16 MM SYNCHRO-LITE PROJECTOR—Assures finest film reproduction. The best projector mechanism available *plus* the unique G-E Synchro-lite unit provide increased efficiency and reliability in film programming. This television light source operates on the new principle of pulsed illumination. Reduced fire hazard, new ease of framing and focusing, quieter operation, minimum maintenance are but four of the advantages of these projectors.

For bulletins or further information write to: *General Electric Company, Box 1162, Electronics Park, Syracuse, New York.*

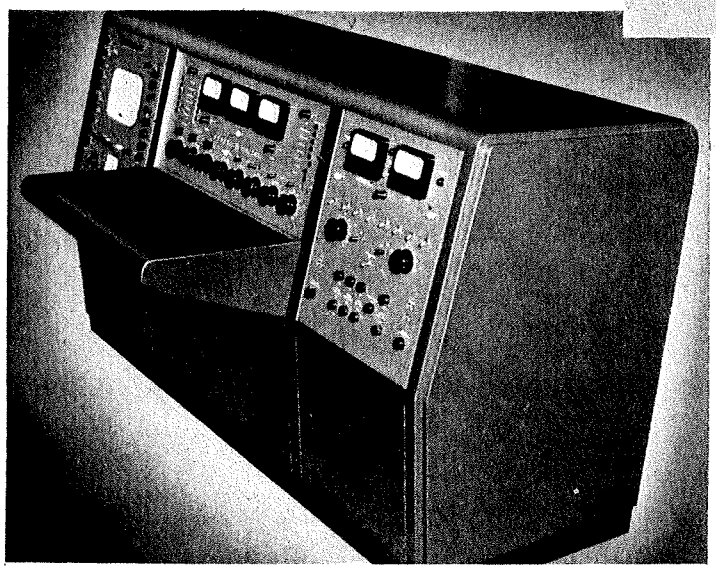
GENERAL ELECTRIC

TRANSMITTERS

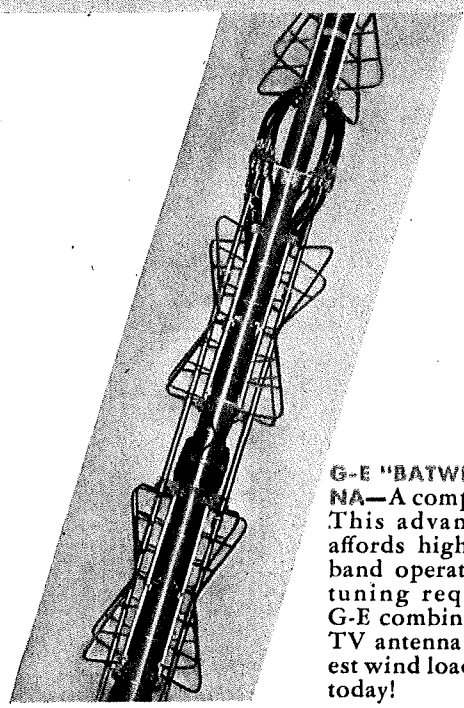
WHAT G.E. MAKES—
MAKES TELEVISION



5 KW TRANSMITTER—Heart of the most up-to-date television system on the air. Incorporates every feature that assures you dependability, minimum operating cost, and ease of maintenance. Low level modulation, proved in years of actual operation, affords linear characteristic, high percentage modulation capability, low distortion. Rapid tube change—by use of simple grounded-grid triodes in all high level stages. Low pressure water cooling. Only low-cost air-cooled tubes in aural transmitter. No vestigial sideband filter.



TRANSMITTER CONSOLE—Outstanding convenience—consolidates transmitter operating controls in one place. Keeps tab on transmitter operation—reduces errors. Special feature—provides method of accurate calibration of black level and depth of modulation of output signal.

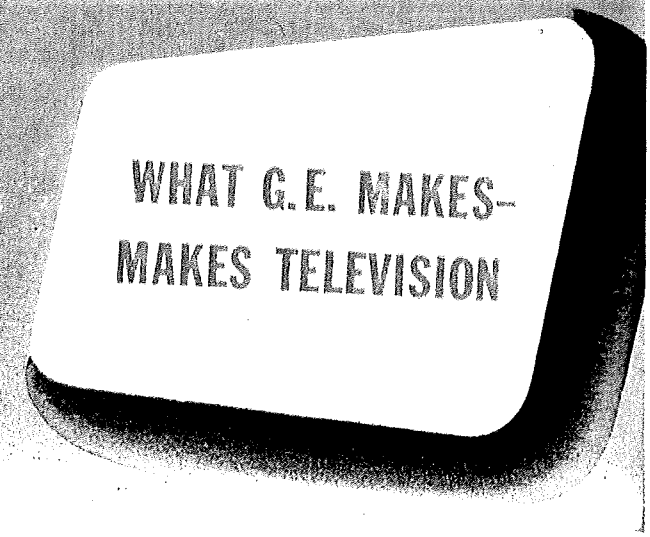


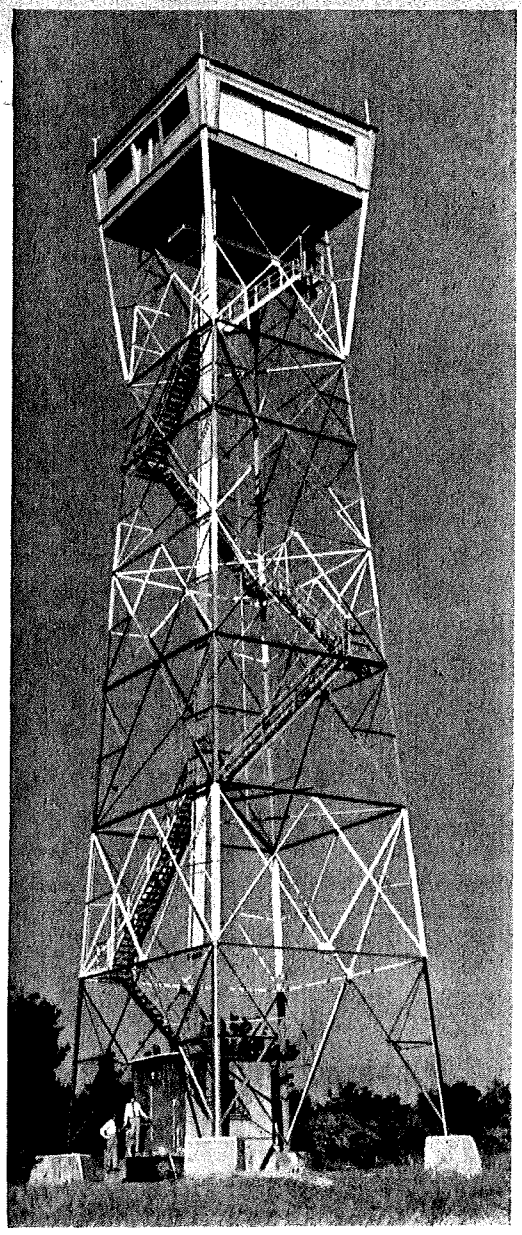
G-E "BATWING" ANTENNA—A complete package. This advanced antenna affords high gain, broad band operation. No field tuning required. Note: G-E combination FM and TV antenna features lowest wind loading available today!

For bulletins or further information write to: *General Electric Company, Box 1162, Electronics Park, Syracuse, New York.*

GENERAL ELECTRIC

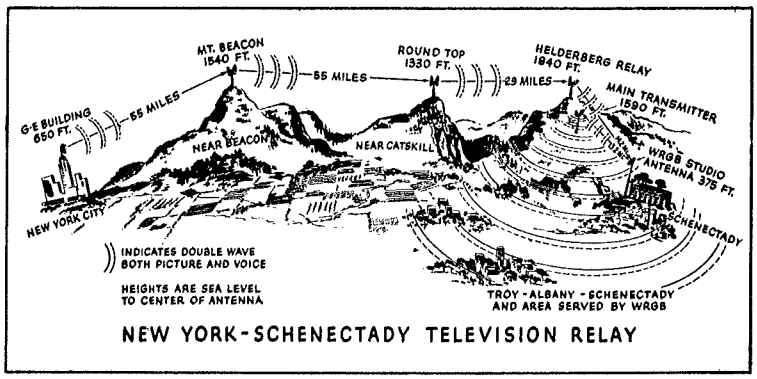
RELAY EQUIPMENT



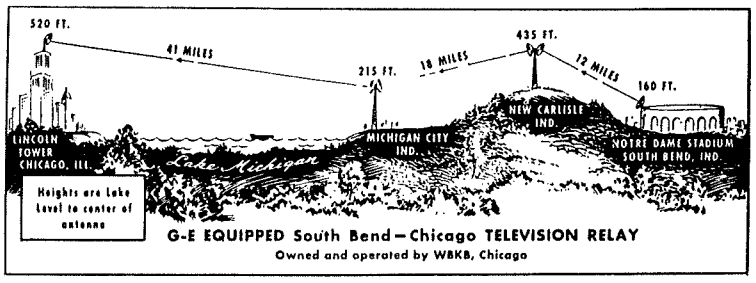


THIS IS THE RELAY THAT

- Has power to spare. Tests show that G-E system capabilities are more than ample for low distortion relaying.
- Operates consistently over large bodies of water. (See South Bend-Chicago sketch below.)
- Sets new records every day for tube economy!
- Slashes operating costs because it is fully automatic. Turns itself on—turns itself off—no tower attendants necessary.



NEW YORK-SCHENECTADY TELEVISION RELAY



G-E EQUIPPED South Bend—Chicago TELEVISION RELAY

Owned and operated by WBKB, Chicago

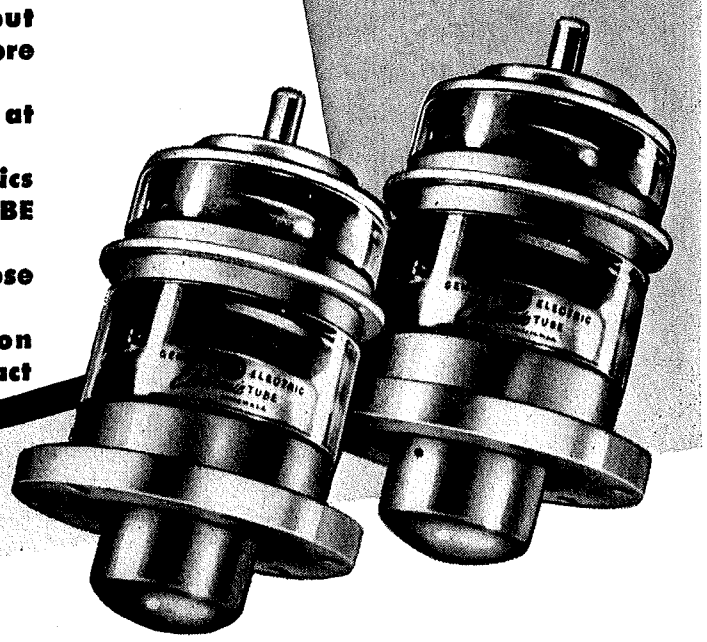
For bulletins or further information write to: *General Electric Company, Box 1162, Electronics Park, Syracuse, New York.*

GENERAL ELECTRIC

CLASS OF THE POWER-TUBE FIELD FOR FM AND TELEVISION

GL-9C24 V-h-f Triode

- **POWER TO SPARE . . . two tubes "under wraps" will put out more than 10 kw in FM—more than 5 kw in television.**
- **FREQUENCY UP TO 220 MC at max plate input.**
- **All the electrical characteristics of ULTRA-MODERN H-F TUBE DESIGN.**
- **Sturdy and COMPACT for close side-by-side tube mounting.**
- **G-E RING SEAL construction gives generous terminal-contact areas.**



RATINGS

Filament voltage	6.3 v
Filament current	240 amp
Grid-plate transconductance	11,000 micromhos
Interelectrode capacitances:	
Grid-filament	24 micromicrofarads
Grid-plate	15.7 micromicrofarads
Plate-filament	0.5 micromicrofarads
Type of cooling	water and forced air
Plate ratings per tube, Class B r-f power amplifier (video service, synchronizing peak conditions):	
Max voltage	5,000 v
Max current	2 amp
Max input	10 kw
Max dissipation	5 kw
* Useful power output, typical operation (at 4,000 v and 1.7 amp, band width 5 mc)	3.4 kw
Plate ratings per tube, Class C r-f power amplifier (key-down conditions without modulation):	
Max voltage	6,500 v
Max current	2 amp
Max input	12 kw
Max dissipation	5 kw
* Useful power output, typical operation (at 6,000 v and 1.3 amp)	6.4 kw

*Includes power transferred from driver to output of grounded-grid amplifier.

TODAY's better pictures, in many cases, owe a debt for sharpness and quality to the superior signal put on the air by General Electric's great power triode, GL-9C24. Newest transmitters with finer video performance, use GL-9C24's in push-pull for final output over both low and high-band channels.

In FM work, too, this tube has set noteworthy standards. With ratings in frequency and power that are ideal for the job—plus a wholly new design concept which outmodes earlier v-h-f types—the GL-9C24 is an example of detailed planning for efficiency.

When applied in a properly designed grounded-grid amplifier circuit, *no neutralization is necessary.* Lead inductance is extremely low. External metal parts are silver-plated, to cut r-f losses and provide better electrical contact surfaces. Fernico metal-to-glass seals are used throughout . . . this tube is long-lived, sturdy!

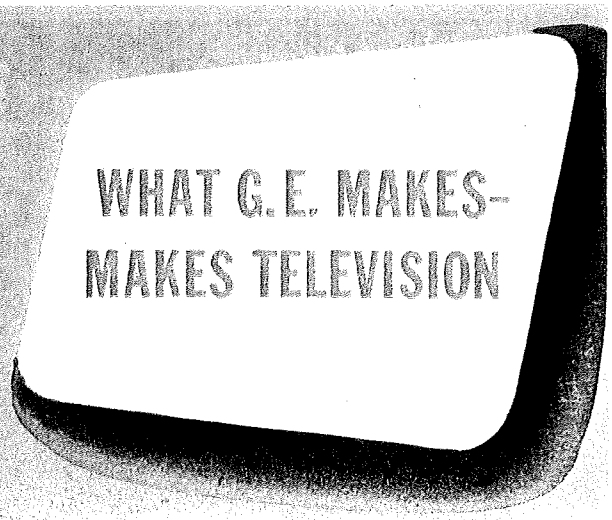
If you build transmitters and wish to benefit from the proved brilliant performance of Type GL-9C24, your nearby G-E electronics office gladly will give you further details.

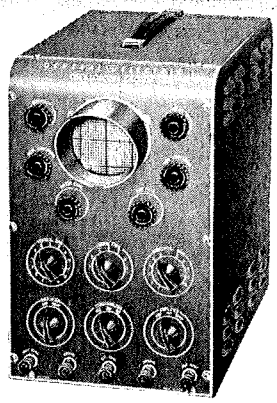
If you are a station operator or engineer, needing replacement tubes *of any type*—FM, television, or AM—see your local General Electric tube distributor or dealer for alert service! Besides showing the way in tube design, G.E. gets tubes to you fastest when you need them. *Electronics Department, General Electric Company, Schenectady 5, N. Y.*

WHAT G.E. MAKES—MAKES TELEVISION

FOR TELEVISION SERVICE

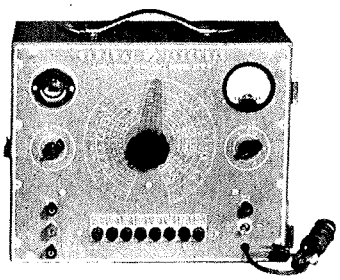
SERVICE TEST EQUIPMENT





OSCILLOSCOPE (Type CRO-3A) —At the top of the list in utility, the General Electric CRO-3A Oscilloscope has been designed to fit into every progressive serviceman's group of essential equipments. Its sensitivity and stability make it an excellent companion to a sweep generator for visual alignment work.

The deflection amplifiers have high output. This permits expansion of the pattern for close examination of wave forms which provide the effect of a large picture. This low cost instrument will perform all service requirements except the very occasional test where extended high frequency response may be needed. The compact construction will be welcomed by the serviceman whose bench space is limited. Its low maintenance cost and its excellent operating stability, with freedom from "Jitter," is a further recommendation to the professional serviceman.

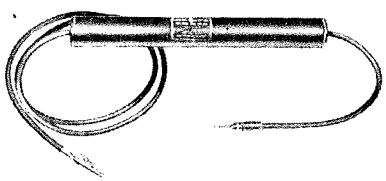


CAPACITANCE RESISTANCE BRIDGE (Type YCW-1) —A combination condenser and resistor bridge with which it is possible to measure a wide range of capacity and resistance and electrical characteristics of condensers.

Special attention is given to electrolytic capacitors by supplying polarizing voltage to assure actual working conditions during measurements. In addition, a meter is provided to indicate the polarizing voltage and leakage current condition.

Push-button switching simplifies selection of the proper range.

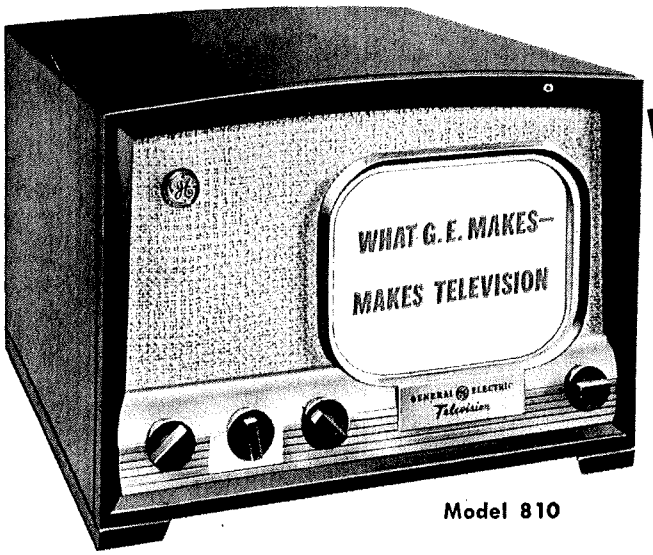
UNIMETER (Type YMW-1A) —The YMW-1A gives rapid, correct measurements of ohms, volts, current and decibels. Meter and terminal resistance accurate to within ±2%, precision resistors accurate to within ±1%. All functions except 50 microamps and output meter capacitor available without changing test leads. Single rotary selector switch controls all functions and ranges. Two-position switch used to select a-c or d-c volt ranges. The large 4½ in. meter shows readings at a glance. It is well constructed to give efficient service . . . high quality components are used in manufacture, assuring satisfactory service. The unimeter circuit is insulated from the metal case and panel. High voltage insulating material protects the ohmmeter batteries.



HIGH VOLTAGE MULTIPLIER (Type YYW-1) —For measuring voltages up to 10,000 volts, General Electric has developed the new YYW-1 High Voltage Multiplier. When used with the Type YMW-1A Unimeter, or similar 20,000 ohms per volt equipments, this multiplier gives accurate measurement. Neat in appearance, designed to give long, efficient service, the High Voltage Multiplier Type YYW-1 is ideal for general service and laboratory use and is especially useful for television servicing.

GENERAL ELECTRIC

GREATEST ADVANCE IN TV RECEIVERS TODAY!



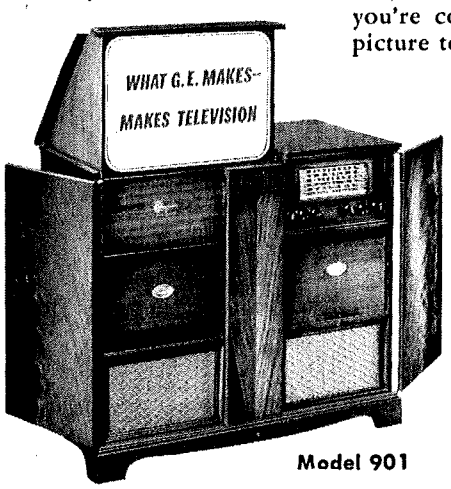
Model 810

YOU'RE LOOKING AT IT! The first and only low-priced table model with G-E Daylight Television. A honey of a set-up for your office monitors. Television's brightest picture on a big 10″ direct-view tube. All U. S. television channels with factory pre-tuned circuits. And the price of this great Model 810 is sensationally low.

WHAT A DIFFERENCE! YOUR EYES PROVE IT!

Even to a seasoned television watcher like yourself, one glance at G-E Daylight Television and you're convinced! Here's the brightest kind of picture television has ever delivered. A big, *big* margin of clarity, too. The only kind of television that shows up perfectly even in broad daylight.

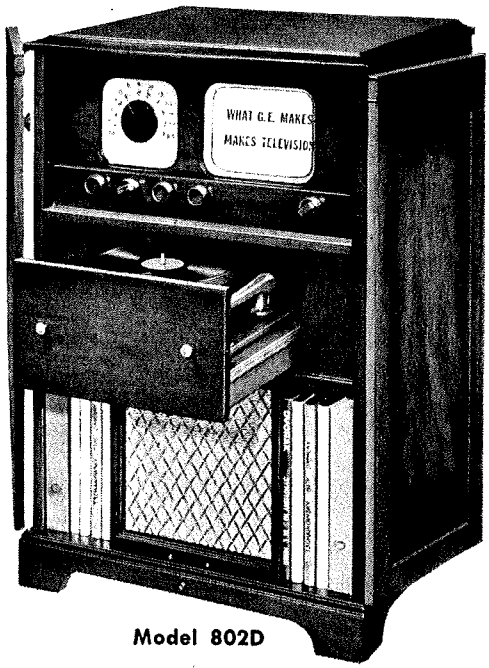
FOR YOUR CLIENT AUDITION ROOM! Giant-screen, de luxe projection television. That great picture is 3 sq. ft. in area. Lowers by fingertip action into a Sheraton styled cabinet of genuine mahogany. Three other superb General Electric services. Genuine FM, standard (AM) and short-wave radio, plus automatic phonograph with the G-E Electronic Reproducer. Model 901.



Model 901

WHAT G.E. MAKES— MAKES TELEVISION

FOR YOUR OWN HOME! G-E's "complete entertainment center." G-E Daylight Television with all its vivid clarity on a 10″ tube. All the joys of both FM and AM radio. The finest record reproduction you ever heard on automatic phonograph with the celebrated G-E Electronic Reproducer. One of the biggest all-in-one values you can buy. Model 802D.



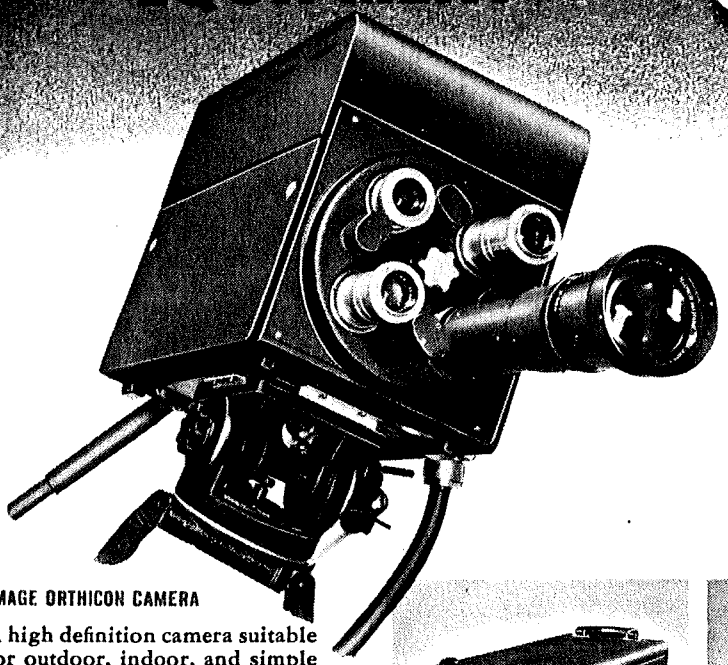
Model 802D

GENERAL ELECTRIC

180-G7TT

FIELD PICKUP EQUIPMENT

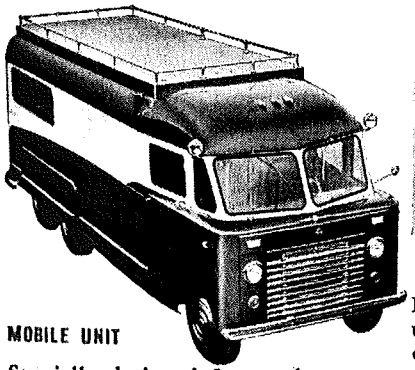
WHAT G.E. MAKES— MAKES TELEVISION



● Now available! Complete portable video pickup chain specially suited to field use. Major items of the chain are briefly described here. Complete descriptions, specifications and photographs of this equipment will be sent to you on request.

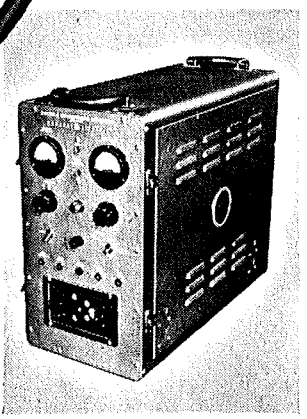
IMAGE ORTHICON CAMERA

A high definition camera suitable for outdoor, indoor, and simple studio use. Extremely sensitive, it may be used in one, two, three, or four camera chain combinations.



MOBILE UNIT

Specially designed for on-the-spot action with remote pickups. Platform on roof, with recessed loops for tying down cameras and relay transmitter dish. Body interior arranged for maximum operating ease.



PORTABLE SYNC GENERATOR

Entirely new in design, this unit is completely self-contained. Compact and sturdily built, it weighs 50 lbs. Extremely stable output waveform. Effects due to tube aging and line voltage variations are minimized by advanced circuit design.

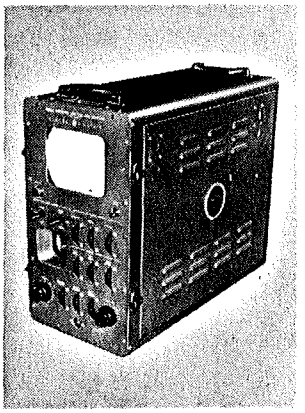
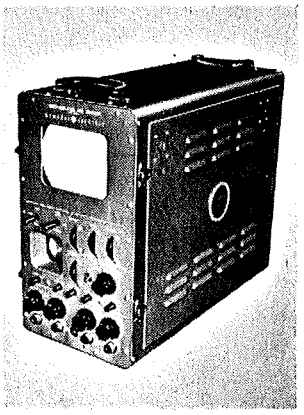


IMAGE ORTHICON CONTROL and MONITOR

Extremely simple to operate. Two controls compensate for differences in scene brightness during televising period. This equipment provides sharp, clear pictures without need for darkening interior of truck.



MIXER AMPLIFIER and MONITOR

Produces special camera effects and monitors outgoing picture and its waveform. Enables operator to switch, mix, lap dissolve, fade, and dissolve output of any camera or combination of cameras and to feed this signal into output line.

For bulletins or further information write to: *General Electric Company, Box 1122, Electronics Park, Syracuse, N. Y.*

GENERAL ELECTRIC

G-E offices *everywhere* are at your service! For complete information on the best equipment for your television requirements, special representatives are located at:

ATLANTA 3, GEORGIA
187 Spring Street, N.W.

BOSTON 1, MASSACHUSETTS
140 Federal Street

CHICAGO 54, ILLINOIS
Merchandise Mart

CINCINNATI 2, OHIO
215 West Third Street

CLEVELAND 14, OHIO
710 Williamson Building
Euclid Ave. & Public Square

DALLAS 2, TEXAS
1801 North Lamar Street

DENVER 2, COLORADO
650—17th Street

KANSAS CITY 6, MISSOURI
106 West 14th Street

LOS ANGELES 14, CALIFORNIA
Suite 1300—1301 Security Title Insurance Bldg.
530 West Sixth Street

MINNEAPOLIS 2, MINNESOTA
12 South Sixth Street

NEW YORK 22, NEW YORK
570 Lexington Avenue

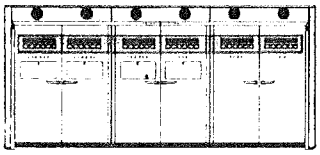
PHILADELPHIA 2, PENNSYLVANIA
1405 Locust Street

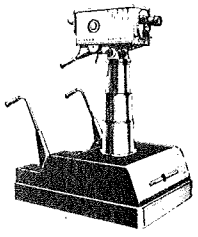
SALT LAKE CITY 9, UTAH
200 South Main Street

SAN FRANCISCO 6, CALIFORNIA
235 Montgomery Street

SEATTLE 11, WASHINGTON
710 Second Avenue

WASHINGTON 5, D. C.
806—15th Street, N.W.





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