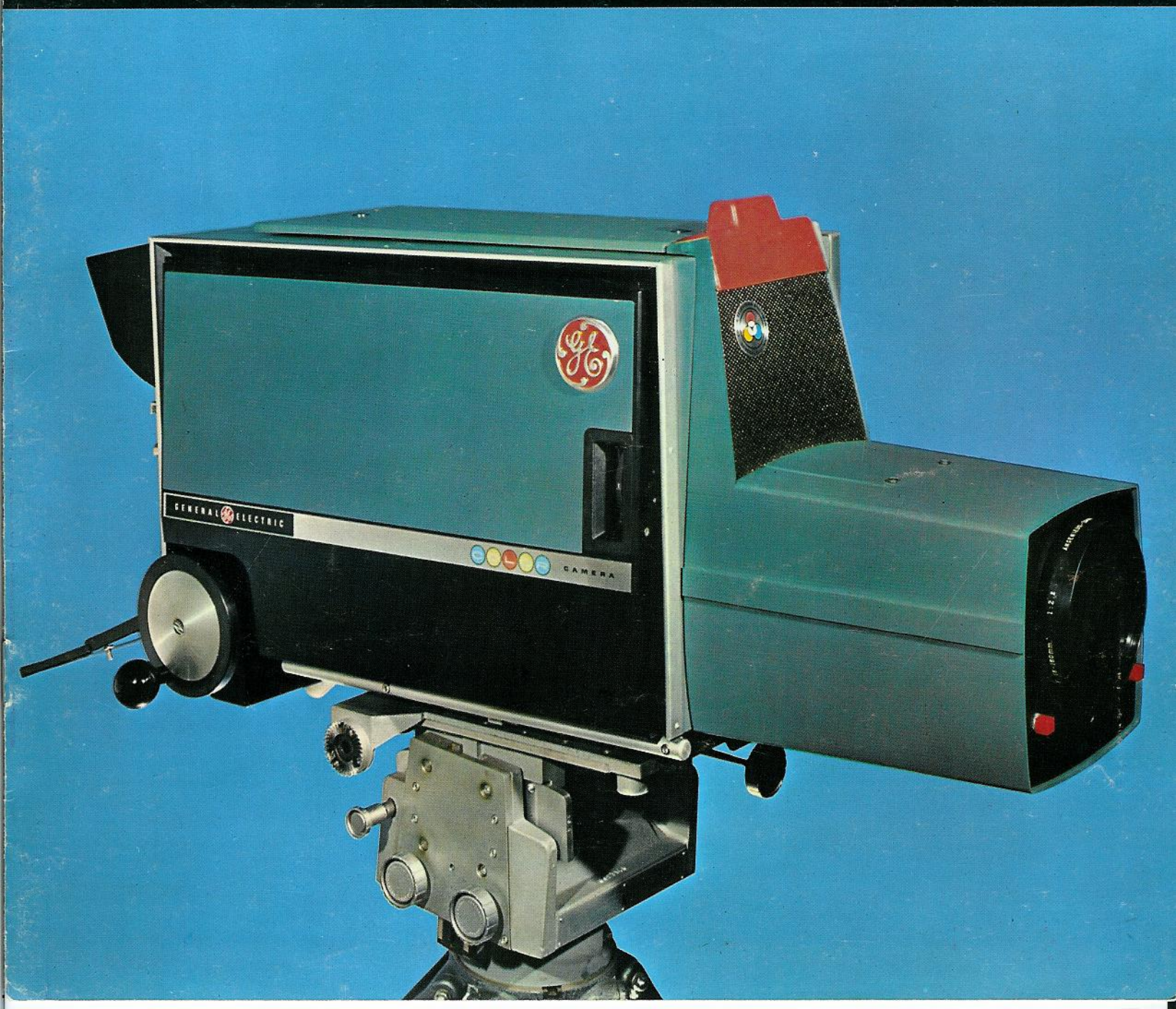
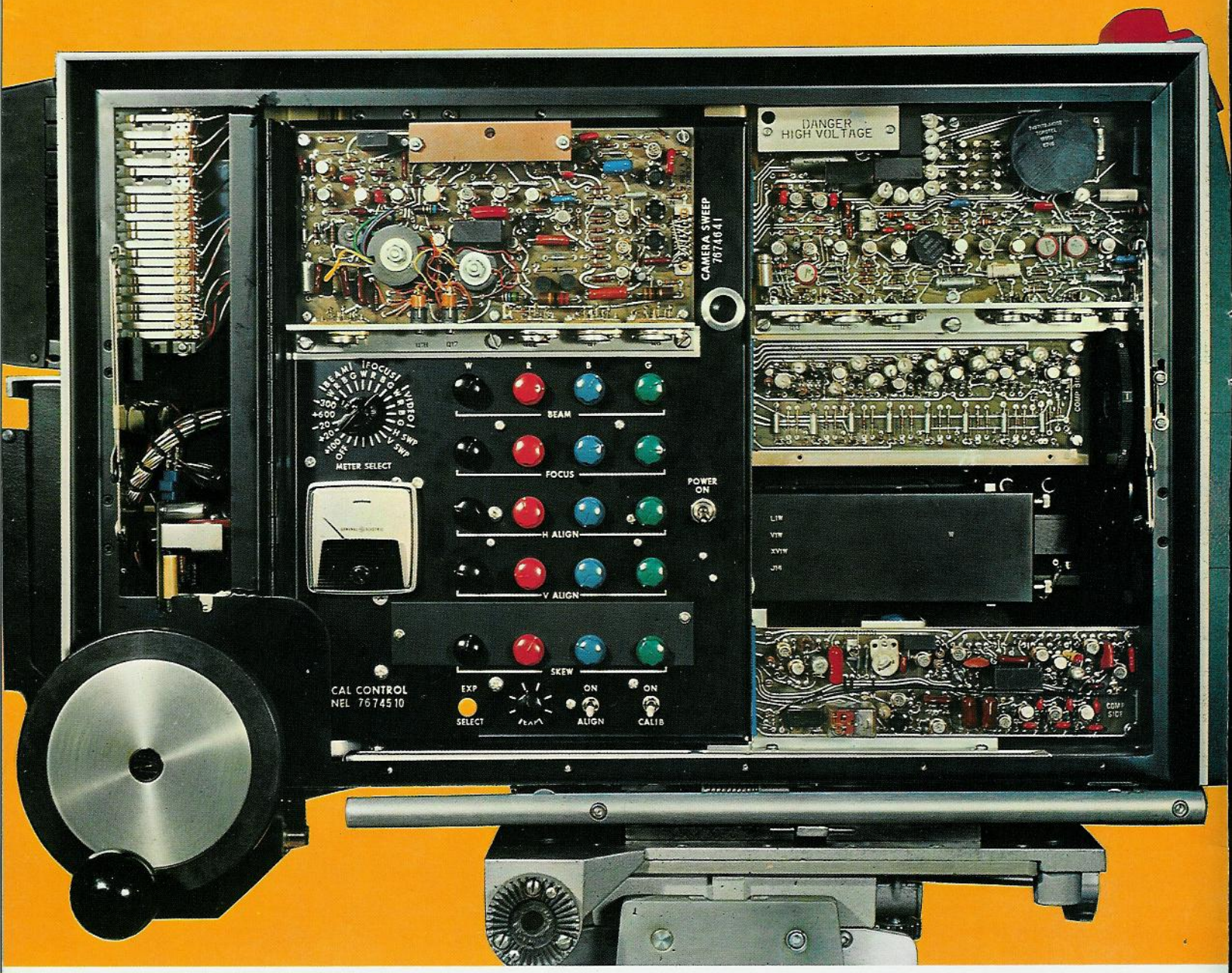
The Best keeps getting Better at General Electric.

New PE-350 Live-Color Camera.





A look inside the PE-350... featuring chroma enhancement on all color channels, new optics, and advanced circuit design.

Industry acceptance of the PE-250, combined with two years of General Electric engineering development, have created the new PE-350 live-color camera. A new optical system, new circuitry and a host of user conveniences make it the best live-color camera available.

Chroma enhancement on all color channels produces new and dramatic color fidelity. This enhancement of all color channels—not just red—provides the most accurate color reproduction possible.

New optics and new preamplifiers in the PE-350 give the camera the best sensitivity in the industry. A reduced image is used on the pickup tubes to virtually eliminate low light level lag.

For operating convenience, an 8-position hand wheel protrudes through the right side door of the camera housing. Any one of seven color temperature filters or an open port can be quickly dialed into position to adjust for varying light conditions. All parts of the PE-350 are quickly accessible for maintenance. Side doors can be lowered, internal sections are hinged, and a hatch is provided in the top of the camera housing. This upper hatch provides access to the viewfinder yoke and high-voltage power supply. The hatch is protected by a weather-sealed rubber gasket. Fittings on the underside of the hatch hold a 2X and a 3X lens extender. Hatch storage assures that each camera's extenders stay with the camera and need be adjusted to each camera only once.

New low-noise preamplifiers for each of the four channels are incorporated for new separate-mesh lead-oxide pickup tubes in each channel.

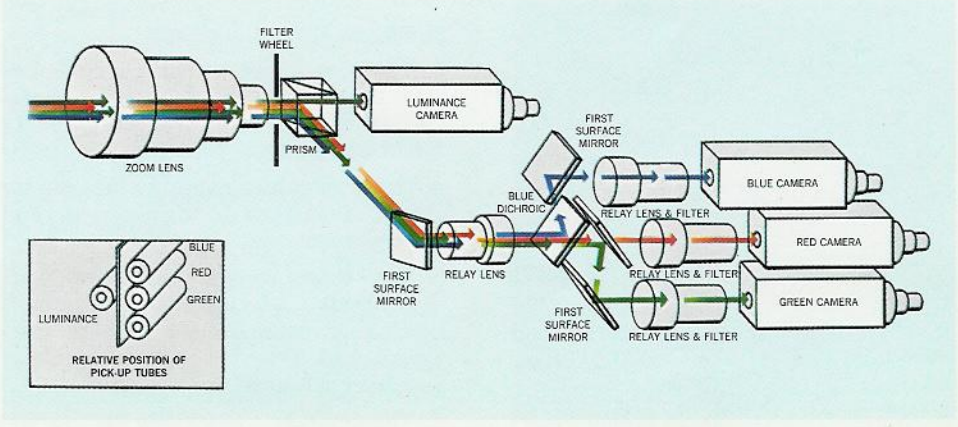
For improved picture performance—including better picture geometry and beam control—new separate mesh lead-oxide pickup tubes are provided in all four channels. Further contributing to improved picture performance are four

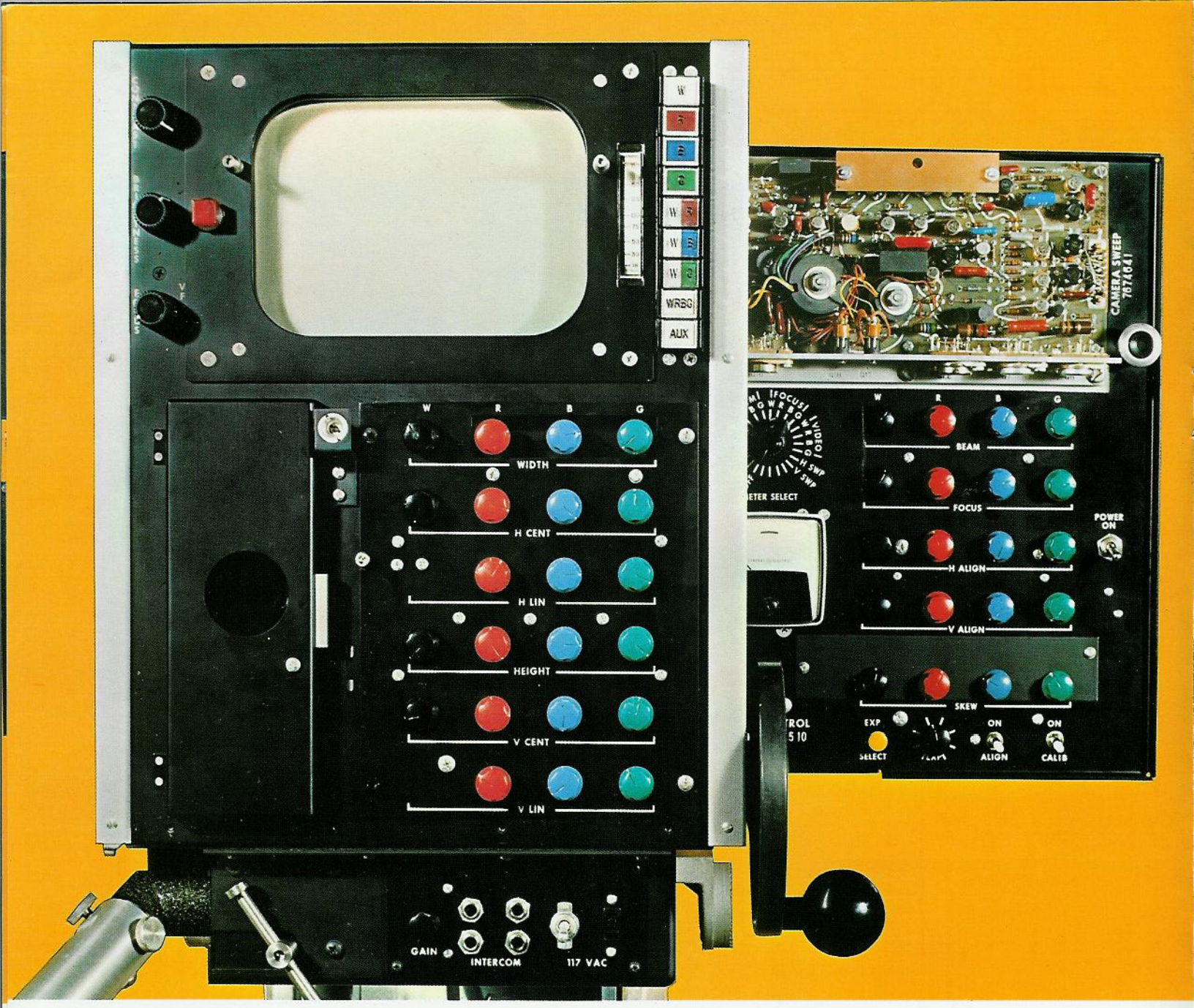
new pickup tube yokes.

The new PE-350 optical system is mounted on a prealigned, machined magnesium alloy casting. The camera's precision alignment is protected from stresses in any direction. Dichroics are protected from dust and stray light.

And you can display the viewfinder output on a remote monitor, due to a buffer amplifier with 75 ohm output built into the viewfinder switcher.

Shading is minimized by the camera's new optical system. For optimum video performance, however, shading controls are located in the control unit. Most of these controls are rarely needed.





All camera controls within reach for one-man set-up.

With all the controls visible from the rear, and all within reach from the rear of the camera, one-man set-up is built into the PE-350.

General Electric's "subtractive" registration technique gives you simple and fast color registration—the most accurate in television. Reversed polarity chroma pictures, compared to luminance, reveal even the most minute differences.

1. Viewfinder brightness, contrast and focus controls are conveniently grouped.

2. Zoom lens focal length meter shows zoom position at a glance.

3. The viewfinder selector switch has nine positions, eight to assist in registration and viewfinding, and one to select optional external video source.

4. The local control panel swings out for extra convenience during check-out and set-up operations.

5. The camera sweep module produces the common horizontal and common vertical sweeps for the camera tube yokes, and provides camera blanking and sweep failure protection.

6. The built-in, switchable "go/no go" meter simplifies camera circuit checks. Its twenty positions permit an immediate, simple electrical check on the entire camera.

7. Door provides instant access to three chroma channel pickup tubes.

8. The intercom gain control, dual intercom jacks and convenience outlet are located below the lower door.

9. The zoom control is a heavy flywheel, smooth and quick in operation. Zoom position is translated electrically to a focal length meter (2.) for operator convenience.



New compact camera control console. Field effect transistors, chroma enhancement, four beam controls, and a color control panel make it better.

Either the standard PR-41-A control rack or compact PR-300-A desk console are options. All the operational, monitoring and test signal facilities are immediately available within the reach of one operator.

1. The PR-300-A control console (see photo) contains the following units:

FA-56-A blank panel

TC-68-B monitor select panel

TM-22-A calibration and picture monitors

TV-113-B processing amplifier (2 drawers)

Color balance control panel on lower

PA drawer

TC-69-B camera control panel, and intercom control panel

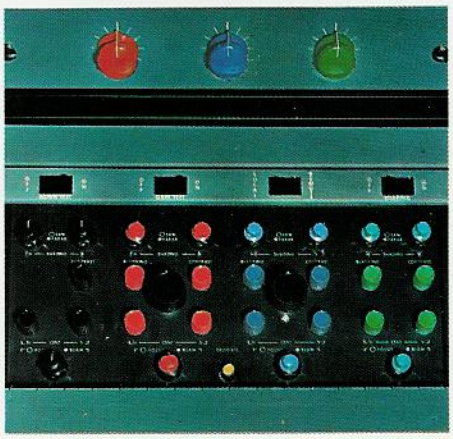
FA-56-D blank panel

TP-38-A power supply

FA-56-B blank panel

The TV-112-B encoder may be mounted in this console.

2. Located in the desk unit, the TC-69-B panel provides the controls for iris, shading, black level, gain, focus, beam and centering. It contains the plug-in modules for the drive converter, the differential amplifiers and the shading generator.





General Electric's new PE-350 live-color camera. A camera of customer conveniences.

From the lens shroud to the rear door, the new PE-350 is a camera of convenience. Convenience for set-up, for operation, and for maintenance—even for performers.

Prominently mounted on the front of the lens shroud below the lens are two new talent tally lights. A third tally light is atop the camera front, and a fourth is alongside the viewfinder monitor. Total "on-the-air" convenience—for the talent, the operator and the control room.

The PE-350 will accommodate a variety of lenses. The entire lens assembly can be removed, making the PE-350 the most portable live color camera on the market. The entire camera weighs under 160 lbs. With the lens assembly removed the camera head weighs approximately 130 lbs.

Operating convenience and efficiency benefits are numerous:

1. Fast, smooth zooms—18 mm. to 180 mm. in under a second.

2. Instant extender installation—the 2X and 3X extenders can be installed or removed in under a minute, without removing the zoom lens. The 2X provides 36 mm. to 360 mm. (f/4.4); the 3X provides 54 mm. to 540 mm. (f/6.6). Both extenders are stored in the camera top hatch.

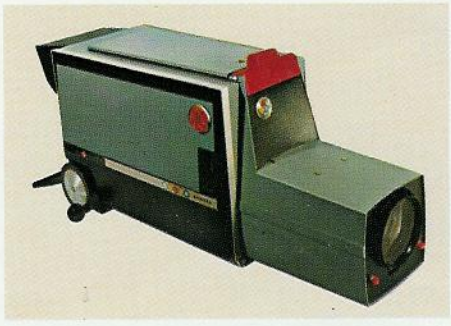
3. Rigid lens alignment—precision-machined stainless steel rods lock the

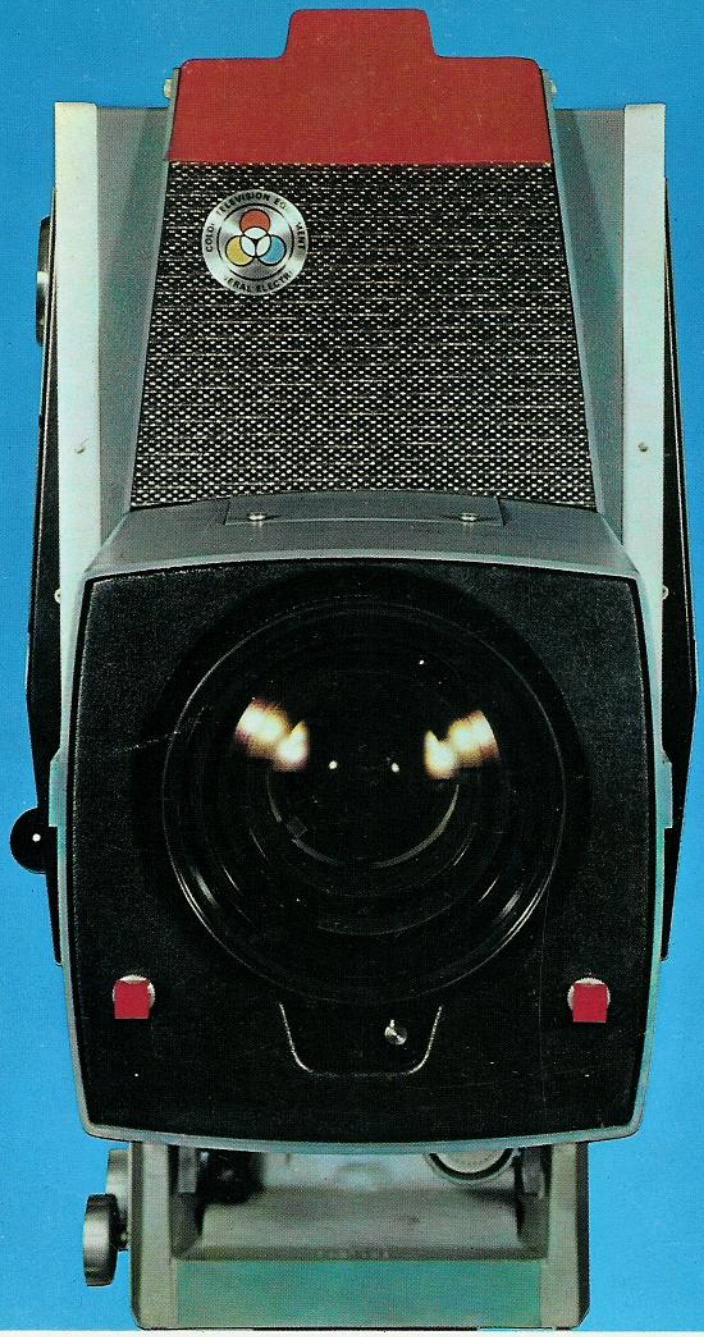
zoom lens in perfect alignment in all positions.

4. Instant focus—simple and sure with the zoom lens focus control built into the pan-tilt handle.

5. Easy portability—the lock-in, two-position handles make the PE-350 easy to carry and mount.

6. Versatility—prompters, spotlights, or other accessories may be attached directly to the camera top.





PE-350 is the best—for now.

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