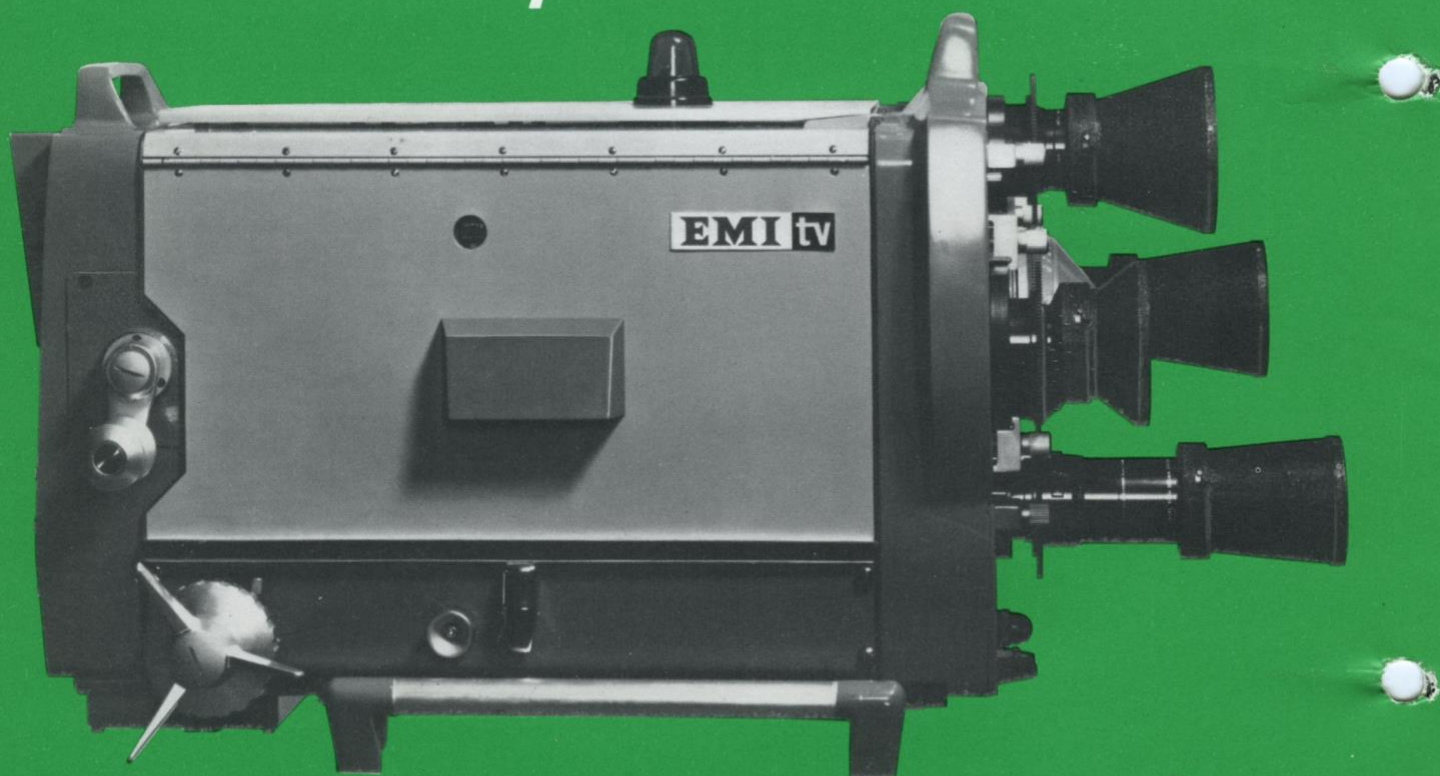




NEW SOLID STATE 4 1/2 INCH IMAGE ORTHICON CAMERA

This new 4½ inch image orthicon camera is the latest addition to the range of high quality solid state broadcast studio equipment produced by EMI Electronics Ltd



Other main features of the new 1.0. camera include...

FOR THE CAMERAMAN

- The viewfinder picture brightness is 400 foot/Lamberts ; a hood is not necessary
- Low-torque high-speed turret change with silent non-linear operation
- Focus control for the Type 207 (integral zoom) is located on the camera
- Yoke carriage movement is completely free from backlash — it can be locked in any position

FOR THE SYSTEMS PLANNING ENGINEER

- Up to 2000 feet (610 metres) of camera cable can be used
- Full facility joystick remote control panel available for 'hands off' operation
- Engineering control panel can be rack or desk-mounted
- Camera control unit can be rack or portable box-mounted

● Basic camera can be supplied with either improved four-lens turret (Type 206) or integrated zoom lens (Type 207)

● From EMI Research Laboratories, where high definition television was born, comes a completely new camera yoke which provides superb camera performance

PERFORMANCE

Resolution..... 5 MHz optical sinewave input gives 100% modulation without aperture correction (excluding lens limitations)

Signal to Noise..... 0.5 dB noise factor

Geometry..... 0.5% in the centre 1.0% in the corner

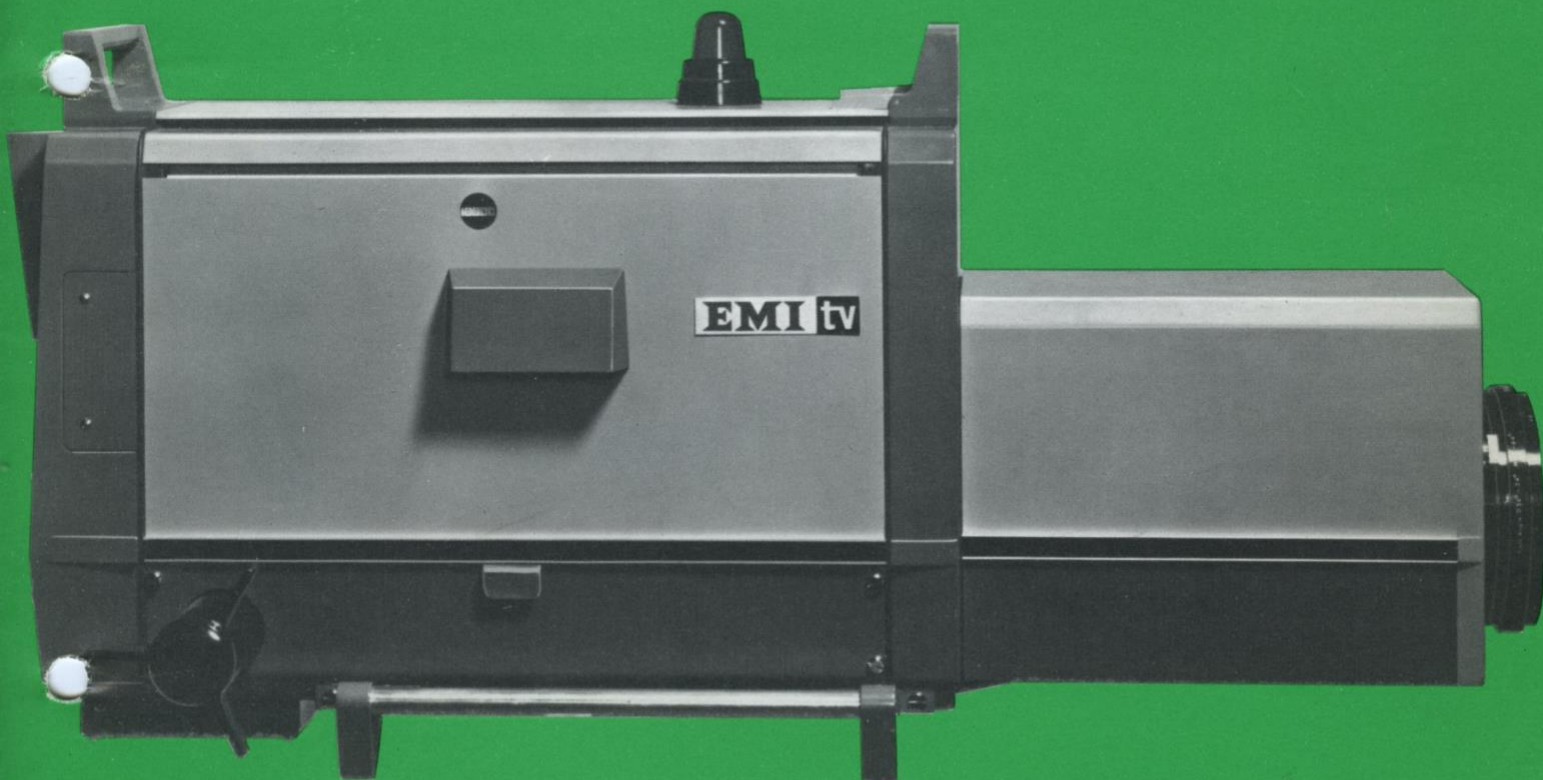
Positional Error..... Better than 0.01% or $\frac{1}{4}$ picture element

Shading..... Better than 10% in the corners

Image Magnification.... Accurately maintained at 1.45

Signal Stability..... Better than ± 0.5 dB

Black Level Stability.... Better than 0.5%

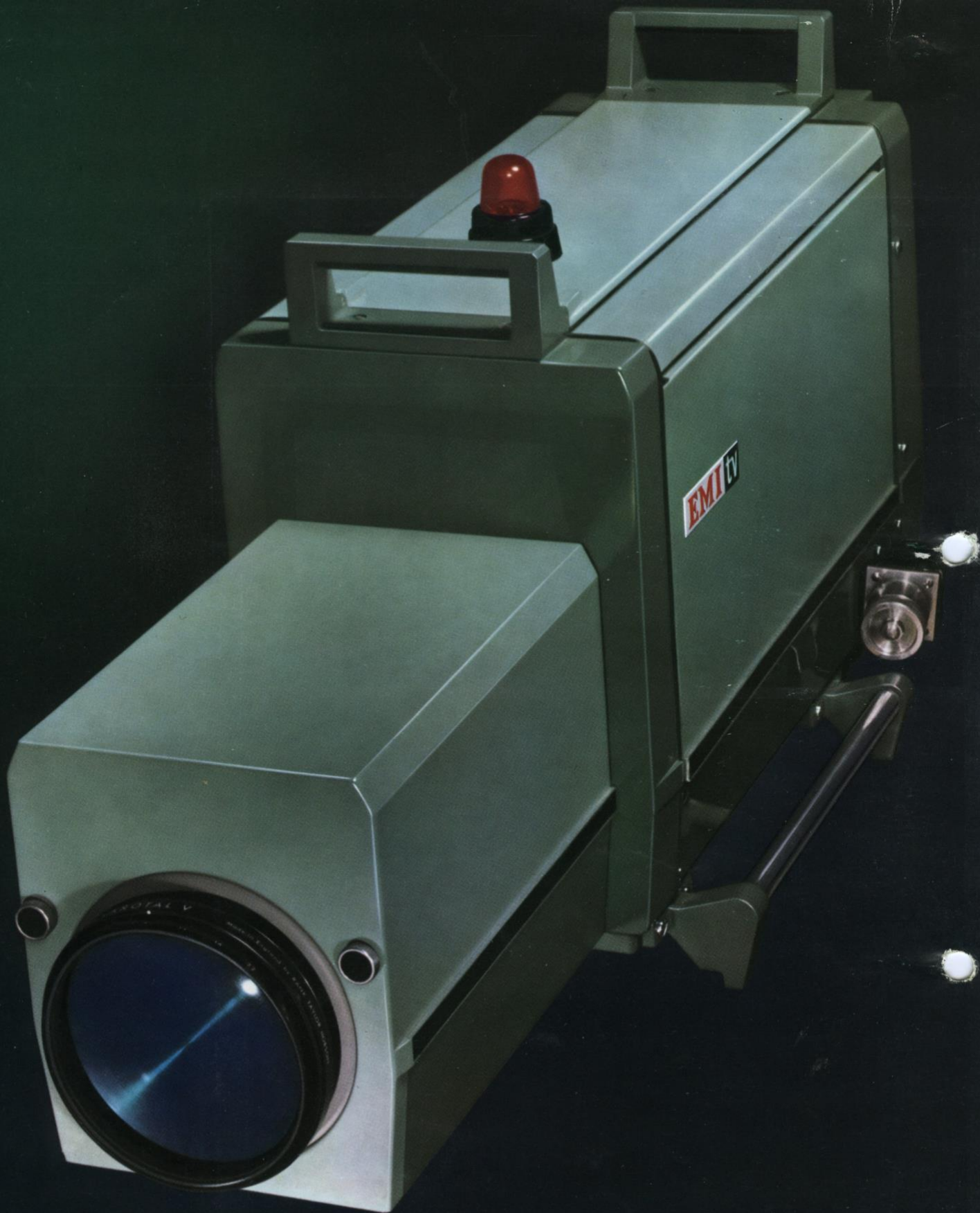


FOR THE PROGRAMME DIRECTOR

- Up to four gamma laws
- The 206 (turret) can take conventional servo or manual zoom lenses
- Talkback system uses high quality dynamic microphones
- Remote indication of zoom or turret station
- Line scan modulation effect facility

FOR THE MAINTENANCE ENGINEER

- Zoom lens or turret is completely undisturbed when image orthicon tube is changed
- All circuits have significant monitoring points
- Full internal and external test facilities
- Turret and integral zoom electronic units are identical
- No matched or specially selected components are used



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