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 1 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%

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**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