**FERRANTI**

**PICTURE MONITOR TUBE**

A rectangular tube with 17" diagonal screen and 90° deflection angle. Designed primarily for use in Television Monitoring Equipment.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FOCUS</strong></td>
<td>Low Voltage Electrostatic.</td>
</tr>
<tr>
<td><strong>DEFLECTION</strong></td>
<td>Magnetic</td>
</tr>
<tr>
<td><strong>SCREEN</strong></td>
<td>Metal backed</td>
</tr>
<tr>
<td>Phosphor</td>
<td>Type ‘T’—Silver Activated.</td>
</tr>
<tr>
<td>Fluorescence</td>
<td>White</td>
</tr>
</tbody>
</table>

This tube can be supplied with other screen phosphors.

For further details refer to the phosphor characteristics at the front of this section of the handbook.

**PHYSICAL DETAILS.**

- Base: B12A (Duodecal).
- Anode Cap: CT8 Cavity type.
- Max. Overall Length: 420 mm.
- Nom. Neck diameter: 37 mm.
- Mounting Position: Any.
- For other dimensions see drawing on page 2.
- The external conductive coating may be used for E.H.T. smoothing.

**BASE CONNECTIONS.**

- Pin 1—Heater.
- Pin 2—Grid.
- Pin 3—No Pin.
- Pin 4—No Pin.
- Pin 5—No Pin.
- Pin 6—3rd Anode.
- Pin 7—No connection.
- Pin 8—No pin.
- Pin 9—No pin.
- Pin 10—1st Anode.
- Pin 11—Cathode.
- Side contact—2nd & 4th Anodes.

**HEATER.**

- Heater Voltage: 6.3 volts.
- Heater Current: 0.3 amp.

**RATINGS.**

- Max. A2 + A3 voltage: 18 kV.
- Min. A2 + A3 voltage: 12 kV.
- Max. Vh-k: 200 volts.
- Max. Rg-k: 1.5 MΩ.
- Max. Rh-k: 1.0 MΩ.

**TYPICAL OPERATION.**

- Heater Voltage: 6.3 volts.
- 1st Anode Voltage: 300 volts.
- 2nd + 4th Anode Voltage: 15 kV.
- 3rd Anode Voltage for focus: -300 to +300 volts.
- Vg for visual cut-off: -30 to -90 volts.

**CAPACITANCES.**

- Ck-all: <8 pF.
- Cg-all: <8 pF.
- Ca-ext. coating: 1500 pF approx.

*Optimum focus lies between these values.

†The modulator should never be positive with respect to the cathode, except during the period immediately after switching off, when it may be allowed to rise to +1 volt.

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FERRANTI LIMITED, GEM MILL, CHADDERTON, OLDHAM, LANCS.