# FERRANTI PICTURE MONITOR TUBE

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

FOCUS ... ... ... Low Voltage Electrostatic.

DEFLECTION ... ... ... Magnetic

SCREEN ... ... ... Metal backed

Phosphor ... ... Type 'T'—
Silver Activated.

Fluorescence ... ... White.

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.

B12A (Duodecal). CT8 Cavity type. Base ••• ••• Anode Cap ••• ••• • • • 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 7—No connection. Pin 2—Grid. Pin 8—No pin. Pin 3—No pin. Pin 4—No pin. Pin 10—Ist Anode. Pin 5—No pin. Pin 11—Cathode. Pin 6—3rd Anode. Pin 12—Heater. Side contact—2nd & 4th Anodes.

### HEATER.

Heater Voltage ... ... 6·3 volts. Heater Current ... ... 0·3 amp.

### RATINGS.

500 volts. 18 kV. Max, A<sub>1</sub> voltage ... Max. A<sub>2</sub>+A<sub>4</sub> voltage Max. Pos. A<sub>3</sub> voltage ••• ••• +500 volts. ... ... Max. Neg. A<sub>3</sub> voltage ... Min. A<sub>1</sub> voltage ... -500 volts. 200 voits. ••• ••• Min. A<sub>2</sub>+ A<sub>4</sub> voltage
Max. V<sub>h-k</sub>
Max. R<sub>g-k</sub>
Max. R<sub>h-k</sub>
... 12 kV. 200 volts. 1 ·5 ΜΩ. 1 ·0 ΜΩ. ... ••• ... ... ...

## TYPICAL OPERATION.

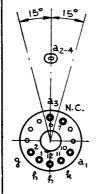
#### CAPACITANCES.

 Ck-all
 ...
 ...
 ...
 <8 pF.</td>

 Cg-all
 ...
 ...
 ...
 <8 pF.</td>

 Ca-ext. coating
 ...
 ...
 1500 pF approx.

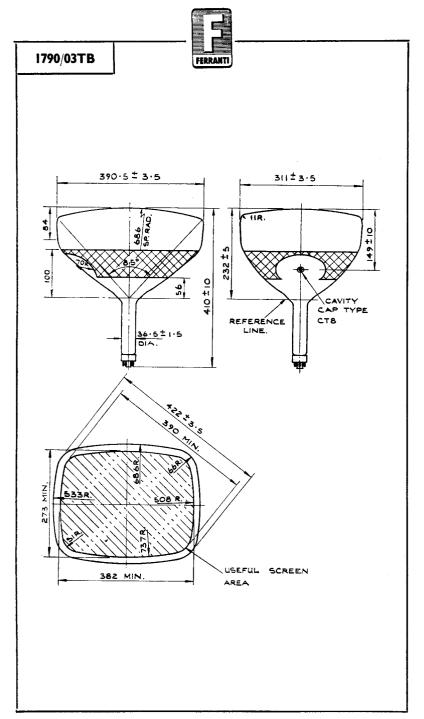






<sup>\*</sup>Optimum focus lies between these values.

<sup>†</sup>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 + I volt.



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