MODEL LBO-510 **OSCILLOSCOPE** OPERATING INSTRUCTIONS

DESCRIPTION 1.

1.1 General

LBO-510 is a compact general purpose 130mm (5") oscilloscope with wideband (DC to 4MHz) and high sensitivity (20mVp-p/cm) characteristics. It is designed for maximum usefulness in service shops, technical schools and laboratories. It features FET's in input circuits, DC-coupled amplifiers, phases (up to 140°) line frequency sweep and vertical calibration voltage. Return trace blanking is provided for clear waveform display.

1.2 Specifications

Vertical Axis

Deflection Sensitivity

Bandwidth, -3dB

DC: DC to 4MHz.

20mVp-p/cm or better.

AC: 2Hz to 4MHz.

Input Impedance

Input Control

1M Ω : less than 40pF in shunt.

X1, X10, X100, and fine adjuster. 0.1Vp-p at line frequency.

Calibration Voltage

Maximum Input Voltage

600V (p-p + DCV).

Horizontal Axis

Deflection Sensitivity

300mVp-p/cm or better.

Bandwidth, -3dB

DC to 250kHz

Input Impedance

100k Ω : less than 40pF in shunt.

Maximum Input Voltage

100V (p-p + DCV).

Sweep Circuit

500 . C

Frequency

10Hz to 100kHz in four steps with fine adjuster.

Synchronization

Internal - & +: external; line.

Sensitivity: Internal, 1.5cm vertical amplitude.

External, over 1Vp-p.

CRT Section

Accelerating Voltage

Display Area

Approx. 1500V. 8 X 10cm, effective.

Z-Axis Modulation

Over 20Vp-p from external source.

Power Supply

Size and Weight

100, 115 or 230V as specified, 50/60Hz; approx. 15VA.

250 (H) X 180 (W) X 415 (D) mm; 7kg.

10" X 7" X 161/2; approx. 15 lbs.