CD Jitter Meter

- *X1 Speed Standard*
- *Jitter Extracted from the 3T Component*
- *Simultaneous P-P Level of 3T or 11T Components*
- *Selection of Peak or Sigma-Weighted Readings*
- *Polarity Selection for Rising or Falling Edges*
- *GO/NO-GO Judgements Based on Preset Values*
- *GO/NO-GO for Both Level and Jitter*
- *TTL Output Uses NO-GO as Line-Stop Command*
- *DC Output of Jitter and Level Analogs*

LJM 1851

CE
Upon request

The first in Leader's long series of professional CD jitter meters, the LJM-1851 is used extensively in CD manufacturing and QC applications throughout the world. Providing, in real time, both RF level and jitter readings simultaneously, the unit also speeds production throughput with rapid and accurate judgement calls. The sigma measuring mode computes the jitter within ± one standard deviation to produce a near steady state reading of jitter facilitating accurate quantitative measurements. The EFM signal level is indicated as a peak to peak value for the 3T or 11T bit component and is selected by pushing a button. The LJM-1851 is ideal for testing and adjusting jitter amounts and HF signal levels during production of compact disc players. It can also be used for servicing and research and development.

key specifications

INPUT SECTION
Input Signal
EFM Signal (clock pulse: 4.3218 MHz ± 3%)
Input Voltage Range
0.15 to 3 V p-p
Can be switched between two ranges
Input Impedance
1 MΩ approximately 35 pF

JITTER MEASUREMENT
Measurement Ranges
Peak value display: 100ns, 200 ns, f.s.
SIGMA Display: 30 ns and 60 ns f.s.
Measurement Accuracy
± 5% of full scale
Polarity
Selectable as rising edge to falling edge or falling edge to rising edge
Indication System
Peak value or SIGMA
Measurement Bit
3T

LEVEL MEASUREMENT
Measurement Bits
3T or 11T switched
Measurement Ranges
1.5 V p-p and 3 V p-p
Measurement Accuracy
± 5% full scale

JUDGEMENT
Judgement Items
Jitter amount of HF level
Judgement Method
Preset values are set on each meter and GO or NO GO is displayed on the respective LED. If the jitter is less than the set value, GO is displayed. For the HF level, if it is above the set value a GO is displayed

OUTPUT SECTION
Monitor Output
EFM signal, jitter signal (both BNC connectors)
DC Voltage Output
DDK type 57 series 14-pin connector
Output Voltage
TTL level negative logic

POWER REQUIREMENTS
100, 120, 220, 240 V ac
50/60 Hz, approx. 20 VA

PHYSICAL
Size (W x H x D)
16 3/4 x 4 x 11 3/4 in.,
426 x 100 x 300 mm
Weight
9.3 lbs., 4.2 kg

SUPPLIED ACCESSORIES
Connection cable, BNC alligator clip
Instruction Manual
Spare Fuse