The MPI 4 is a laboratory-grade instrument. It continuously monitors the quality of the performance of a stereo system. It can sample and display signals from the tuner, preamplifier and power amplifier without re-connecting cables.

As a tuning aid exact FM station selection and precise tuning is seen. Displays of FM are signal strength, modulation percentage and multipath interference; of audio signals are stereo balance, amplitude, phase and channel separation. Output power of the power amplifier can be seen at any instant during program performance, or stored to develop a trend over several minutes. With the addition of test records, the MPI 4 can show compliance and trackability of a phono pickup, frequency response of the preamplifier and power amplifier, audio distortion and stereo speaker balance. In the dual trace mode, the left and right stereo channels appear simultaneously and separately on the screen for direct comparison.

In short, the MPI 4 is a professional measuring instrument that assures you continuously that your system is performing as expected. You never again need to wonder about the performance of your stereo.
The MPI4

- maximum performance from your stereo system • once in a
- a view of the separation provided on any signal source
- absolute balance of your stereo channels from phono cart

DUAL TRACE
Each channel of stereo signal is displayed individually in the dual trace mode of operation. Comparison of the signals assists in comparison of recordings, the quality of stereo information in the source and much other valuable information.

LEVEL
The audio level of stereo signals is displayed as two vertical columns on the screen. The height of each column is determined by the power or amplitude of the input signal.
Action can be stopped and held to permit close comparison between the highest levels attained by left and right channels.

PHONO CARTRIDGE CALIBRATION
You will protect your record investment, extend the life of your records, and reduce needle wear when the turntable is properly set up. With the aid of test recordings the MPI 4 will assist in this proper set up. The display assists in properly adjusting for proper tracking force, best tracing vs tracking force, anti-skate, proper phasing, and channel separation.

FM TUNING
You’ll see signal strength, center channel FM tuning and a reference for multipath distortion elimination. The image is a display of the tuner IF curve. Signal strength is the vertical axis. Horizontal center is the center of the detector and IF curves. Proper tuning gives minimum distortion and maximum listening pleasure on all kinds of FM broadcasts.
helps you

lifetime" programs flawlessly recorded • better FM reception • a measurement of the performance of the phono cartridge edge to speakers • an accurate measurement of power output

PHASE

Program material that is 'out of phase' sounds unnatural and thin; 'in phase' sounds alive and rich. Occasionally a program source will be 'out of phase.' On the MPI 4 you can see the phase relationship so you can correct the condition.

BALANCE

Accurate system balance assures you of full stereo pleasure. The MPI 4 gives you a visual indication of the balance of your stereo system. You can check and correct the output balance of your stereo phono cartridge, tape recorder, tuner, or any part of your stereo system. You will know when your stereo system is in balance when you use an MPI 4.

CHANNEL SEPARATION

The MPI 4 shows the stereo separation from all stereo program material. The display changes position and shape with the program material to permit interpretation of what the display means to your listening enjoyment. You see what makes a good stereo record sound good. You will know why your records sound the way they do.

MULTIPATH DISPLAY

Multipath reception deprives you of FM listening enjoyment in several ways:
• noise level increase
• distortion is introduced into the program material
• stereo separation is reduced
• the stereo effect may be completely lost
• stereo indicators may fail to function
**Our Promise to You**

Performance Limits are the maximum deviation from perfection permitted for a McIntosh instrument. We promise you that your MPI 4 must be capable of performance at or exceeding these limits or you get your money back. McIntosh is the only manufacturer that makes this guarantee.

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**MULTIPATH**

Sensitivity: 100 mV/cm
Frequency Response: DC to 50,000 Hz (-3 dB)
Input Impedance: 250,000 ohms
Signal Strength Polarity: Selectable positive or negative

**STEREO**

Sensitivity-L (Vertical Amp.): 1.75 mV RMS/cm (5 mV P-P/cm)
R (Horizontal Amp.): 1.75 mV RMS/cm (5 mV P-P/cm)
Frequency Response: 5 Hz to 50,000 Hz (-3 dB)
Input Impedance: 250,000 ohms

**POWER LEVEL**

Sensitivity: 0.1 to 1000 watts continuous for full scale indication (-3 dB)
in 9 calibrated steps
Frequency Response: 5 Hz to 100,000 Hz (-3 dB)
Input Impedance: 75,000 ohms
Calibration: For bridging 4, 8 or 16 ohm speaker loads

**PREAMP LEVEL**

Sensitivity: 15 mV RMS for +3 dB indication
Frequency Response: 5 Hz to 50,000 Hz
Input Impedance: 250,000 ohms

**SWEEP**

Display modes: Left, right, or both (dual trace)
Sensitivity: 16 mV RMS/cm (4.5 mV P-P/cm)
Frequency Response: 5 Hz to 50,000 Hz (-3 dB)
Input Impedance: 250,000 ohms
Sweep Frequency: 20 Hz to 20,000 Hz in 3 decade ranges
Sweep Expansion: 0.25X to 5X
Sweep Trigger: The sweep is triggered only in the presence of an input signal
in the single trace mode it is triggered by the displayed waveform
in the dual trace mode the trigger is selectable. Left channel, right channel, or line frequency

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**LEVEL INDICATION**

Normal; 250 µs rise time
500 ms decay time
Peak: 500 ms rise time
25 sec decay time
Reset: Manual

**LOW PASS FILTER**

16,000 Hz L F Filter for stereo and sweep modes
19,000 Hz and 35,000 Hz rejected by at least 30 dB

**RETICLE LIGHTING**

Selectable: On-Off

**CATHODE RAY TUBE**

3 inch tube, calibrated 5 x 6 cm
1000 volt accelerating potential

**AUTOMATIC INTENSITY CONTROL**

In the absence of a horizontal signal, the intensity is reduced to prevent phosphor damage

**SEMICONDUCTOR COMPLEMENT**

2 integrated circuits
23 transistors
10 light emitting diodes
29 diodes

**POWER SUPPLIES**

Regulated to give equivalent performance for line voltages of 100 to 135 volts

**POWER REQUIREMENTS**

120 volts, 50/60 Hz, 50 watts

**SIZE:**

Front panel measures 16 inches wide (40.65 cm) by 5-7/16 inches high (13.8 cm).
Chassis measures 15 inches wide (38.1 cm) by 5 inches high (12.7 cm) by 13 inches deep (33.1 cm) and PANLOC mounting brackets and back panel connectors. Knob clearance required is 1-1/2 inches (3.85 cm) in front of the mounting panel

**FINISH:**

Front panel is anodized gold and black with special gold/teal nomenclature illumination. Chassis is black

**MOUNTING:**

Exclusive McIntosh developed professional PANLOC

**WEIGHT:**

21 pounds (9.55 kg) net, 33 pounds (15 kg) in shipping carton

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**YOU SHOULD OWN McIntosh BECAUSE**

- McIntosh instruments are designed and manufactured for long life.
- McIntosh instruments have always been designed for long life with low maintenance costs and high quality performance. McIntosh instruments have been and are the LABORATORY STANDARD for the world. Until 1949 the performance requirements for a McIntosh had long been an engineering dream. They became a reality with the introduction of the first McIntosh amplifier. Throughout these years McIntosh has produced instruments that have exceptionally long life. Regardless of age, most McIntosh instruments are still in use today. Amplifier clinics held all over North America have shown that most of the McIntosh instruments ever manufactured are still in service today and still meet or exceed original exacting requirements for performance that were required of them when new.
- Used McIntosh instruments enjoy the highest resale value in this field. Retailers report that customers are constantly searching for used McIntosh instruments. A McIntosh does not remain on the "Used" display long. You'll get more when you trade-in your McIntosh assuring you of maximum return on your investment.

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**Franchised Dealer**

 AUDIO CLASSICS, LTD.
www.audioclassics.com
3501 Old Vestal Road, Vestal, NY 13850
Fax/Phone: 607-766-3501

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**McIntosh Laboratory Inc.**

2 Chambers St., Binghamton, N.Y. 13903
Phone area 607 723-3512

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Primed in U.S.A.