

THE FINEST EXPRESSION OF TUNER CRAFTSMANSHIP

The finest possible reception of FM monophonic and FM multiplex stereophonic broadcasts is assured by the McIntosh MR71 FM Stereo Tuner.

The research staff of McIntosh Laboratory has developed *five new tuner circuit improvements for the MR71.*

- A new computer designed filter reduces noise from stations broadcasting subcarrier auxiliary music sources.
- Automatic stereo-mono switching that is clickless and completely electronic. (Patent applied for.)
- New D'Arsonval movement meters of increased sensitivity which do not need zero setting adjustments.
- Multipath indicator to eliminate multipath reception by showing when your antenna is rotated to the correct position for picking up only the desired signal.
- Double tuned input circuits before the first R.F. amplifier to reduce spurious responses.



MR71 \$399.00 CABINET \$25.00

McIntosh MR71 FM STEREO TUNER

MR71 SPECIFICATIONS

USEABLE SENSITIVITY

Better than 2.5 microvolts at 100% modulation (± 75 KC deviation) for less than 3% total noise and harmonic distortion in accordance with IHFM standards.

AUDIO FREQUENCY RESPONSE

Within $\frac{1}{2}$ db from 20 to 20,000 cycles including 75 microsecond de-emphasis.

DISTORTION

Less than 0.5% at 100% modulation ± 75 KC deviation.

CAPTURE RATIO

1.5db at 100% modulation.

MUTING

IF injected ultrasonic muting: at least 60db quieting between stations.

IMAGE REJECTION

Better than 80db at 90MC; better than 70db at 105MC.

HUM

Better than 70db below 100% modulation.

OUTPUT

Approximately 2.5 volts; low-source impedance.

ANTENNA INPUTS

300 ohms balanced; 75 ohms unbalanced.

RF AMPLIFIER

Cascode with 6DS4 Nuvistor in first stage.

IF AMPLIFIERS

Five stages, with 200KC bandwidth, flat top response.

TUNING INDICATORS

Two, signal strength presentation and precise tuning indication. New D'Arsonval movement meters of increased sensitivity which do not need zero adjustment.

FM MULTIPATH RECEPTION INDICATOR

An exclusive new McIntosh development; the upper section of the dual electron-ray tube can be switched to indicate multipath distortion or signal strength.

MULTIPLEX CHANNEL SEPARATION

Better than 30db at 1000 cycles.

MULTIPLEX FILTER

Greater than 48db suppression below 100% modulation of 19KC pilot and 38KC carrier.

MULTIPLEX INDICATOR

MPX stereo light activated by 19KC carrier only.

MULTIPLEX TYPE

Peak-detecting, self-matrixing detector.

LIMITERS

Two stages.

RADIATION

Substantially below FCC requirements.

SCA FILTER

50db down at 67KC to 74KC 275db per octave slope.

AUTOMATIC MONO-STEREO SWITCH

An exclusive McIntosh development; all-electronic automatic mono-stereo switching circuit. (Pat. Pend.).

TUBE AND SEMICONDUCTOR COMPLEMENT

1—6DS4 Nuvistor, 1st RF.
1—12AT7, 2nd RF and Mixer.
1—6BN4A, Oscillator.
1—6AU6, 1st IF.
1—6AU6, 2nd IF.
1—6AU6, 3rd IF.
1—6AU6, 4th IF and 1st Limiter.
1—6CS6, 5th IF, 2nd Limiter and Muting.
1—6BN8, Muting Amplifier, Muting Detector, AVC Clamper.
2—6BL8, Left and Right, 1st and 2nd Audio Amplifiers.
1—6U8, MPX Amplifier, MPX Indicator Control.
1—6HU6/EM87 Multipath Indicator.
1—12AU7, MPX Oscillator.
1—ST2-275, Voltage Reference.
1—MA113 (Transistor), MPX Indicator Lamp Switch.
2—1N542 Diodes, Wide Band Discriminator.
2—1N542 Diodes, Narrow Band Discriminator.
4—1N542 Diodes, Balanced MPX Detector.
2—1N542 Diodes, Balanced Detector for MPX Indicator.
2—Selenium Rectifiers, High Voltage Power Supply.
1—No. 1850 Lamp, MPX Indicator.

POWER CONSUMPTION

70 watts, 105 to 125 volts, 50 to 60 cycles.

DIMENSIONS

Front Panel, 16 inches wide by $5\frac{7}{16}$ inches high; chassis (including PANLOC shelf) 15 inches wide by 5 inches high by 13 inches deep, including connectors; clearance in front of mounting panel including knobs, $1\frac{1}{2}$ inches.

WEIGHT

Chassis only, 27 pounds.

In shipping carton, 37 pounds.

Franchised Dealer

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