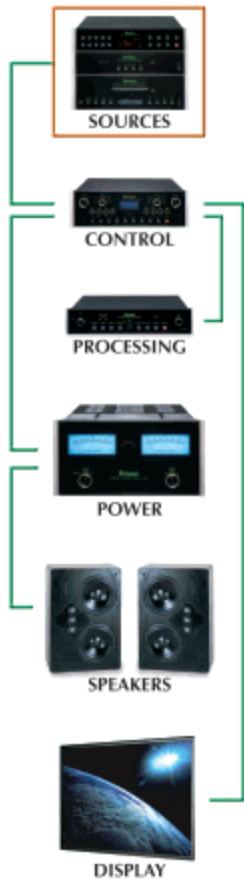


McIntosh[®]
THE GREAT AMERICAN POWERHOUSE



MR85 AM/FM Tuner



See "SYSTEMS ENGINEERING"
in main brochure for more on
McIntosh system architectures.

MR85

AM/FM Tuner



A good tuner is hard to find, even as a separate. A great tuner such as the MR85 is truly rare, and will let you rediscover the pleasures of radio. The MR85 is a thoroughly engineered broadcast monitor that reveals the upper limits of AM/FM performance. By adding the TM1 Tuner Module the MR85 becomes two great tuners that operate independently – perfect for multizone applications.

Featured Technologies

DUAL-TUNER OPERATION. As an expansion option, an independent TM1 Tuner Module may be added by a McIntosh dealer. This is ideal for multizone systems, because it creates two tuners that can be used simultaneously. The optional TM1 is the most economical way to add a second high-performance tuner to *any* McIntosh system.

WEIGHTED FLYWHEEL FOR MANUAL TUNING. Reminiscent of the smooth-acting flywheel found in classic McIntosh tuners, the MR85 features a new, optically encoded weighted flywheel for "dialing in" stations.

CUSTOM NAMING. All station presets for each tuner may be labeled with a name containing as many as 8 characters. For example, FM preset 1 could be renamed "ROCK1" or "WKRP."

IR REMOTE CONTROL. When connected to a McIntosh Control Center, the MR85's master control microprocessor receives and decodes signals from separate data inputs, one for each tuner. This allows for simultaneous independent remote operation of each tuner.

AUTO-MEMORY OF PREFERRED SETTINGS. Each preset automatically remembers the last setting for the Mono and Spatial functions. Whenever a preset is selected, its preferred setting will be restored.

AUTOMUTE. When manually tuning through the band, the outputs will *unmute* whenever a suitably strong station is sensed. For distance tuning, Automute can be turned off to allow searching for weak signals. This fine-tuning method recalls the feel of a classic analog tuner.

SPATIALIZER ENHANCEMENT. This circuit can expand the sound field for FM stations that have poor separation, or it can provide a pseudo-stereo effect for AM stations.

DMOS-FET RF AMPLIFIER. This circuit provides very high sensitivity with ultra-low distortion.

DOUBLE BALANCED MIXER. This advanced design improves spurious response rejection and provides better local oscillator isolation.

About the MR85 Companion Products



The McIntosh products shown at right are logical companions for the MR85. Separate literature is available. Check with your McIntosh dealer for any late additions. McIntosh speaker systems are also covered in detail in separate literature.

TM1 Tuner Module. The dealer-installed TM1 transforms the MR85 into a dual tuner ideal for use in a McIntosh multizone system. The TM1 delivers the exact same performance as the MR85's fixed tuner.

CR12 Multizone A/V Control Center. When linked to the CR12, the MR85 can be operated from any keypad in a multizone system. When the MR85 is equipped with the TM1, each tuner functions as a completely independent source.

MA6500 Integrated Amplifier. The MR85 delivers superb McIntosh performance when used with the MA6500 or any McIntosh Integrated Amplifier or Control Center,



TM1 TUNER MODULE



MA6500 INTEGRATED AMPLIFIER



CR12 MULTIZONE
A/V CONTROL CENTER



As seen on the inside surface of this demonstration piece, the screening process for a McIntosh glass panel entails as many as 12 individual layers.

The glass panels are cut using a computer-controlled high-pressure water jet.



Featured Technologies

LINEAR PHASE, PIEZOELECTRIC IF FILTERS. Never requiring adjustment, these filters – together with the associated IF amplifier – provide more than 120dB of gain and selectivity greater than 90dB.

PHASE LOCKED LOOP MPX DECODER. In addition to providing excellent stereo separation, the decoder yields a high signal-to-noise ratio.

AUTOMATIC STEREO BLEND. Background noise is reduced for weak FM stereo stations, with little loss of stereo image.

19KHZ PILOT AND 38KHZ CARRIER SUPPRESSION. The suppression circuitry blocks any noise caused by the pilot and carrier signals, allowing noise-free recording to tape.

NEW AM ANTENNA CIRCUIT. Locally generated interference is rejected, and static crashes from lightning are significantly reduced.

RAA1 REMOTE AM ANTENNA. This additional high-performance AM antenna can be located away from equipment and wires that are a source of interference.

REMOTE POWER CONTROL. This enables the MR85 to turn on and off with other McIntosh system components.

CONTROL DATA INPUT. This enables a McIntosh Control Center or Integrated Amplifier to operate the MR85 via a system remote control or keypad.

Why
Choose
McIntosh
?

Most consumer electronics products are necessarily viewed as short-term investments because either they don't last or they quickly become obsolete in some way. *Coincidentally*, manufacturers supply a steady stream of "new-and-improved" products that you can buy. *Again*.

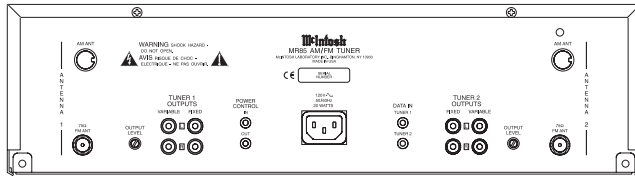
Behind every McIntosh is a fifty-year heritage of excellence, proudly carried forward by every employee. No production

lines, no "price-point" engineering, no planned obsolescence. McIntosh equipment is made to sound better and last longer.

When McIntosh products are presented to customers, the criteria they have been conditioned to overlook – reliability, longevity, craftsmanship, ease-of-use, adaptability, pride of ownership – suddenly leap to the top of their list.

The choice becomes clear: ***There is nothing like a McIntosh.***

MR85 AM/FM Tuner



FEATURES

- High-performance AM/FM broadcast monitor
- Expansion option adds second internal tuner
- New flywheel system for manual tuning
- Non-volatile memory for 9 FM and 9 AM presets (per tuner)
- Multifunction alphanumeric fluorescent display
- Custom naming for each preset
- Auto-memory of preferred settings for each preset
- Permanent memory of all settings
- Automute for distance tuning (defeatable)
- Remote power control in/out
- Data in connections for remote operation from McIntosh system remotes
- Fixed and variable audio outputs
- McIntosh spatial sound enhancement (Tuner 1)
- High sensitivity DMOS-FET RF amplifier
- Double-balance mixer for superior image rejection
- Ultra-stable, linear phase piezoelectric IF filters for FM and AM
- Phase Locked Loop FM multiplex decoder
- Automatic stereo blend on weak FM stereo stations
- 19kHz pilot and 38kHz carrier suppression for noise-free recordings
- Adjacent-channel Multiplex Interference Rejection Circuit
- New AM input circuit with a Faraday-shielded low impedance ferrite rod antenna
- RAA1 high-performance remote AM antenna included
- Gold-plated output jacks
- Modular construction with steel chassis
- Glass front panel with illuminated nomenclature

SPECIFICATIONS

FM SECTION

Useable Sensitivity

14dBf (1.4uV across 75Ω)

50dB Quieting Sensitivity

Mono: 19dBf (2.4uV across 75Ω)

Stereo: 35dBf (15uV across 75Ω)

Signal-to-Noise Ratio

Mono: 75dB; Stereo: 70dB

Frequency Response

Mono: 20Hz to 15kHz, +0 / -1dB

Stereo: 20Hz to 15kHz, +0 / -1dB

Harmonic Distortion

Mono: 0.3% at 100Hz

0.3% at 1kHz

0.3% at 10kHz

Stereo: 0.45% at 100Hz

0.45% at 1kHz

0.65% at 10kHz

Intermodulation Distortion

Mono: 0.25%; Stereo: 0.45%

Capture Ratio

1.2dB

Alternate Channel Selectivity

75dB

Spurious Response

100dB

Image Response

75dB

RF Intermodulation

65dB

Stereo Separation

45dB at 100Hz

45dB at 1kHz

35dB at 10kHz

SCA Rejection

65dB

AM SECTION

Sensitivity

20uV (external antenna input)

Signal-to-Noise Ratio

48dB at 30% modulation

58dB at 100% modulation

Harmonic Distortion

0.5% max. at 50% modulation

Frequency Response

50Hz to 6kHz NRSC

Adjacent Channel Selectivity

55dB minimum IHF

Image Rejection

65dB min., 540kHz to 1600kHz

IF Rejection

80dB minimum

GENERAL

Audio Outputs

Fixed: 1.2Vrms

Variable: 10mV to 1.2Vrms

Output Impedance

< 100 ohms

Power Requirements

100V 50/60Hz, 20W

120V 50/60Hz, 20W

230V 50/60Hz, 20W

Dimensions (h x w x d)

inch: 5.44 x 17.5 x 17.5

cm: 13.8 x 44.5 x 44.5

Weight

25.5 lbs. (11.6kg) net

43 lbs. (19.5kg) shipping