

MAGNUM dynalab

The World Is Listening

As successor to the FT101A, one of the most sensitive, selective and sonically accurate FM tuners of our time, the **MD-90** continues the tradition by re-defining state-of-the-art in analog FM tuner design.

MD-90 Analog FM tuner



As did the FT-101A, the **MD-90** combines the very latest in discrete, analog technology. Its highly renowned MOSFET front end provides 3 stages of very careful and precise amplification. Here even the most fragile of signals is strengthened and further defined by using highly effective "group delay" filtering. The result is a sonically correct audio signal, one that contains all the inherent richness and brilliance of the source being broadcast.

In addition to the features offered by its predecessor, the **MD-90** now offers even greater selectivity in order to deal with urban signal congestion. The **MD-90's** in house manufactured 3-stage RF front end is sure to extract the most intricate signals from amongst the milieu of FM congestion that abounds in today's urban markets. Additional support is given through our custom **Auto Blend RF circuit**, which constantly monitors and varies your stereo separation insuring optimal "stereo quieting" during your listening sessions.

The **MD-90** now incorporates all functions in a totally redesigned motherboard. This integration has provided the necessary design efficiencies to allow consistently higher levels of selectivity to be maintained. Along with added selectivity, the **MD-90** has a redesigned power supply circuit that maintains the tuner circuitry at standby at all times when the tuner is connected to a live AC source. The **MD-90** can now also house the analog remote system (FTR) inside the chassis allowing for precise analog tuning through the optional infra red remote control. (sold optionally)

FEATURES AND BENEFITS:

Dual, keyed automatic gain control (AGC) - Monitors and maintains program signal level and clarity, along with providing a dramatic reduction in interference from strong, local stations.

BW 1/ BW 2 bandwidth control - Switchable to effectively control annoying sideband interference.

Mute circuit - noise-activated with manual defeat switch.

Auto Blend RF circuit - automatically monitors and varies stereo separation insuring optimal "stereo quieting" during your listening sessions.

Stereo/Mono Mode - User switchable.

Digital frequency display - Independent frequency counter derives input from tuner's local oscillator section and displays in soft, amber 0.5" LED numerals.

Large, easy-to-read panel meters provide continuous monitoring of *rf input level, multipath interference level* and *center-tune* condition.

Frequency tuning is via a precision potentiometer which provides a precise, filtered voltage for the tuning varactors. Visual output is via the digital frequency display. The actual tuning mechanism consists of an ultra smooth, large, front panel control knob.

Function switching is provided through tactile, toggle switches with oversize replaceable paddles.

WHY ANALOG?

In contrast with the frequency synthesis method of tuning, analog is not dependent on a digital microprocessor chip to establish the tuner's receive frequency. With analog, tuning is accomplished using specially-selected, discrete components in the tuner's critical "front end." In the Magnum Dynalab design, these components are selected and matched so that a unique balance of sensitivity, selectivity and sound can be maintained.

However, the most significant advantage in analog is that it delivers control into the hands of the user. With the MD-90, infinite tuning is available in order to establish maximum stereo separation or to detune slightly in order to minimize on-frequency noise. With frequency synthesis tuners, this capability is offered usually in fixed, 50KHz steps. While FM stations themselves are rarely found to be transmitting outside the +-2KHz standard, FM station signals that are rebroadcast over cable may not be quite so precise.

PRICE

\$995.00 US Funds

SPECIFICATIONS

Usable sensitivity (mono)	10.3dBf
Usable Sensitivity (stereo)	11.2dBf
50dB quieting Sensitivity (mono)	13.2dBf
50dB quieting Sensitivity (stereo)	34.0dBf
Capture Ratio	1.5dB
Image Rejection	75.0dB
Signal to Noise Ratio (SNR)	75.0dB
Alternate Channel Attenuation (wide)	60.0dB
Alternate Channel Attenuation (narrow)	80.0dB
Adjacent Channel Attenuation (wide)	9.0dB
Adjacent Channel Attenuation (narrow)	25.0dB
THD (mono)	0.1%
THD (stereo)	0.18%
Stereo Separation	50.0dB
AM Suppression	-70.0dB
SCA Rejection	-75.0dB
-3dB frequency response	20Hz - 17KHz
Power Required	120vac @ 25 watts max.
Dimensions	19"(w) x 13" (d) x 4.25" (h)
Weight	12 lbs

Also available in 220 and 240VAC with either North American or European FM deemphasis. North America deemphasis is provided if not specified otherwise.

Faceplate - Available in 17 3/4" black and 19" black and 19" rackmount.(standard)
silver and gold anodized finishes.(optional)

Option Available - Kimber wiring in significant signal paths-improves detail and high frequency extension

Option Available - Internal IR remote system

Option Available - Balanced Audio Outputs

The **MD-90** utilizes a direct trickle down technology found within the [Magnum Dynalab MD-series MD-100 tuner](#) and the "Pro-101." Along with providing the FM broadcaster with a sonically correct receiver in order to maintain audio signal quality standards more reliably, the "Pro-101" incorporates circuitry specifically for use in the FM broadcaster/repeater plant.

OPTION - [ANALOG Remote Control](#)

Certain manufacturers feel that in order to build a remote-controlled tuner the signal in the front end must be digitized, whereas we at Magnum Dynalab feel that this is where the problems start when you are trying to produce the best sound. We have designed a special ANALOG remote control which maintains the finite tuning and sound produced with our ANALOG tuners. The remote is optional and can be added to any of our tuners at any time.

Features of the Magnum Dynalab ANALOG Remote

- **On/Off switch**

- **Five station presets**
- **Remote fine tuning**
- **Hard wire control interface**

We feel that you should not sacrifice the great sound received from your tuner in order to obtain the convenience of a remote control.

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