

MIPRO

MRM-70 FREQUENCY AGILE, DIVERSITY RECEIVER MODULE

Instruction Manual



MIPRO

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DIVERSITY RECEIVER MODULE

INTRODUCTION

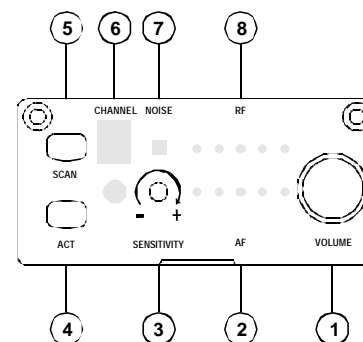
The MRM-70 is a wireless microphone receiver module suitable for installation in MIPRO's MA-705, 707 & 909 portable PA amplifiers. It can also be fitted to other PA amplifiers, mixers, signal processors and karaoke players to provide these devices with frequency agile, wireless reception.

The UHF band and PLL technology are utilized to avoid the often congested VHF band. True diversity and advanced circuitry combine to eliminate signal dropouts and random noise interference. The main features and benefits of the MRM70 are:

1. Press the 'SCAN' button and the receiver will auto-scan and lock on to one of the 16 preprogrammed frequencies.
2. Press the 'ACT' button to automatically upload the receiver frequency to your transmitter.
3. Once the frequency pairing has been set, the data is stored in memory, meaning that the frequency is locked until it is changed by performing the 'ACT' function again, even after powering off.
4. Bright and easy-to-read LED displays indicate the numeric channel number and RF & AF signal strengths.
5. The receiver's sensitivity level can be adjusted to avoid interference.
6. Reliable, true diversity reception with dual "Pilotone & NoiseLock" circuitry prevents interferences.
7. The receiver's output level and dynamic range have been accurately factory calibrated to match the microphone capsule's sensitivity, ensuring optimal performance from the system. (1.5dB tolerance).
8. The modular design allows for easy installation, maintenance and DIY.

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1. GLOSSARY



- (1) **Receiver Power Switch/Volume Control:** Turns the receiver module on and off. After powering on, the AF LED will flash. Turn the knob clockwise to increase volume.
- (2) **Audio Signal Level Indicator:** Indicates the audio signal level.
- (3) **Sensitivity Adjustment:** Enables you to adjust the receiver's sensitivity to ensure that no spurious noise is heard when there is no transmitter signal present.
- (4) **ACT Button:** Press to setup the transmitter frequency to match the receiver frequency.
- (5) **Scan Button:** Press to select the receiver's frequency and to auto scan to ensure an interference free channel.
- (6) **Channel Indicator:** Display the channel selected for the receiver.
- (7) **Noise Indicator:** Indicates if there is interference present.
- (8) **RF Signal Level Indicator:** Indicates the RF signal strength at the receiver.

DIVERSITY RECEIVER MODULE

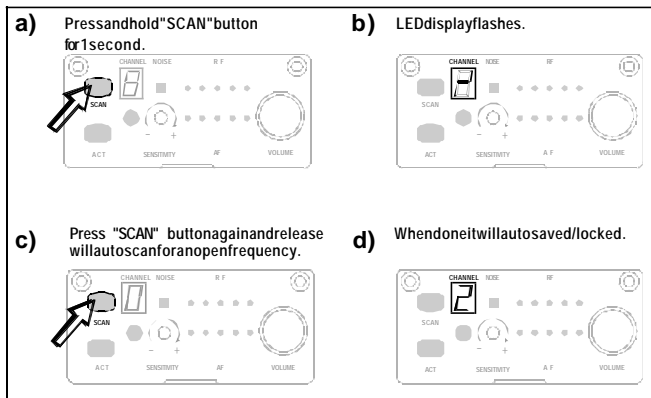
2. FREQUENCY AGILE OPERATION

(1) Overview:

- (a) This system incorporates an advanced PLL synthesized oscillator design and is reprogrammed with 16 user-selectable frequencies.

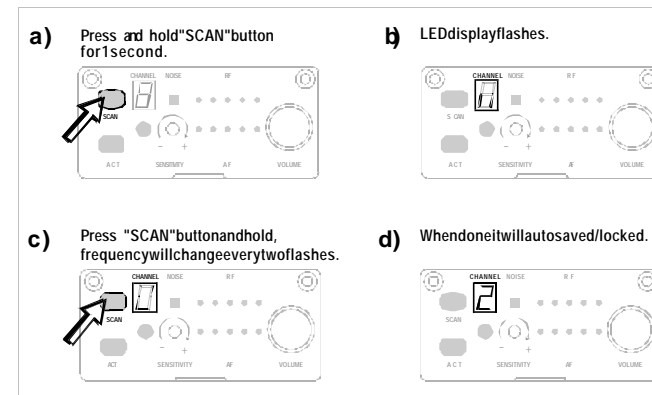
(2) Selecting a Frequency:

- (a) Auto Scanning Frequency Set-up: Hold down the SCAN button (5) for 1 second. Release the button when the numeric LED (6) flashes. It will flash a total of 6 times. To activate the Auto Scan function, press the SCAN button once during the 6 flash sequence. An open frequency will automatically be saved/locked. *Note that the Auto Scan function works only if accessed while the LED is flashing.



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- (b) Manual Frequency Set-up: Hold down the SCAN button (5) for 1 second. Release the button when the numeric LED (6) flashes. It will flash a total of 6 times. To manually select any of the 16 preprogrammed frequencies, press the SCAN button and hold it down until the required frequency is selected. This frequency will then automatically be saved/locked.



(3) Change the channel when:

- (a) The existing channel is encountering interference.
- (b) You wish to select different channels for multiple system applications.

