

MIPRO MR-90 Professional ENG Receiver

Audio and Video Are Finally Together!



MR-90 Professional ENG Receiver

Introduction :

The MIPRO MR-90 is a professional wireless, portable receiver specially designed for professional camcorder applications. Matched with any ACT transmitter from MIPRO, this unit will eliminate the need for microphone cables during recording. The MR-90 not only brings a closer combination of video and audio so that a more natural sound can be recorded, but also ensures safer and more agile operation since it eliminates the need for awkward and bulky microphone cables.

The MR-90 can also be installed on an active PA speaker via its accessories and matched with MIPRO's MA-909 Wireless Audio Mixer to form a wireless inter-linking PA system. Alternatively, the MR-90 can be matched with any of the ACT-series wireless transmitters, microphones or instrument cables to turn active speakers into a wireless system.

The MR-90 compact, miniature receiver utilizes the UHF band, PLL synthesized technology and dual-antenna true diversity design, ensuring clear and stable signal reception with no signal dropout even in the most unpredictable operating environments. It has a wide frequency range where 100 selectable frequencies are pre-programmed in each 24 MHz bandwidth with 16 of these specifically preset into one group for use with an MA-909 interlinking MT-90 transmitter. With the world's first Autoscan and ACT programming functions of MIPRO's ACT-Series, the receiver and transmitter can set up a clear working frequency rapidly, precisely and automatically.

A waterproof metal case provides professional strength and durability. A standard LCD panel gives a clear and accurate display of all digital operations and setup.

With optional accessories, the MR-90 can be configured five different ways to fit all types of camcorders such as the SONY BETACAM-series or IKEGAMI and other compatible camcorders. Accessories like the MR-90SB built-in battery pack ensure the flexibility to work with other camcorders, mixers, active speakers and audio equipment.

Key Features:

1. Waterproof, compact, and ultra-thin rugged aluminum chassis construction increases dependability.
2. Various interface socket modules can be easily detached and installed to work with different camcorders, active speakers and other audio equipment.
3. Detachable battery pack accessory needs only two AA-sized batteries to provide at least 12 continuous hours of operation, eliminating the need for external power.
4. UHF-band, PLL synthesized, dual-antenna, and true diversity technology avoids interference, improves reception and sound quality.
5. In each 24MHz bandwidth, 100 pre-programmed frequencies can be easily auto-scanned, set and locked on an open, non-interference frequency.
6. 16 frequencies are specifically preset to work with the MA-909 and interlinking transmitters.
7. World's first ACT feature automatically locks the transmitter channel rapidly and accurately.
8. Clear LCD panel shows frequency, RF and AF signal strength, function, diversity, and battery strength.
9. Control panel has setup buttons for SCAN, ACT, SQUELCH, and LOCK functions, allowing easy and error-free setup.
10. Highly sophisticated circuitry design.
11. Balanced, high-gain audio signal output.
12. Electronic power switch eliminates any noise during power up and power down.
13. Working voltage is 6~18VDC and the efficient power-saving design makes power consumption lower than 70mA.
14. Precision SMA antenna connectors with removable soft antennas.

Key Accessories and Functions :

1. MR-90S Standard Package (Included with MR-90)

Includes Velcro fasteners, external I/O module, signal output cable and power cable.
Ideal for other camcorders, active speakers and interfacing with other audio equipment



Highly sophisticated PCB



Diagram of external power set-up

2. MR-90S15 Exclusive Socket Interface :

For SONY Betacam camcorders with 15-pin I/O sockets. Installs directly into the reserved slot on the camcorder. No need for external power and signal output cable.



Installed in SONY Betacam camcorder.

3. MR-90S25 Exclusive Socket Interface :

For IKEGAMI camcorders with 25-pin I/O sockets. Installs directly into the reserved slot on the camcorder. No need for external power and signal output cable.



Installed in IKEGAMI camcorder.

4. MR-90SB Built-in battery pack :

Ideal for other camcorders, active speakers and interfacing with other audio equipment. MR-90SB requires two AA-sized batteries, eliminating the need for an external power source.



5. MR-90SC Mounting Fasteners :

No need for Velcro fasteners. Connects directly to the accessory shoe of many miniature camcorders



Matching Transmitters :

1、 Handheld Microphones :



2、 Bodypack Transmitters



3、 MA-909 Wireless Mixer Transmitter



Specifications: :

Items	Specifications
1.	Frequency Range 620~958MHz
2.	Bandwidth 24MHz
3.	Oscillation Mode PLL synthesized
4.	Stability ±0.005% 0°C~+50°C
5.	Channels Pre-programmed 100 switchable channels
6.	Channel Setup Push-button AutoScan function to lock on an interference-free channel
7.	Receiving Mode Dual Tuner True-Diversity Receiving
8.	Receiving Sensitivity S/N>76dB at 6µV input
9.	Maximum Deviation Range ±70KHz
10.	De-emphasis 25ms
11.	Frequency Response 80Hz~18KHz ±3dB (with low frequency filter characteristics)
12.	Image Rejection >78dB
13.	Spurious Rejection >80dB
14.	Intermodulation >60dB
15.	T. H. D. <0.15% (At maximum deviation Range)
16.	Squelch Level Adjustable range between 6dBuV~45dBuV at 5dB steps
17.	Maximum S/N Ratio 107dBA
18.	Maximum Output Level Balanced 2.2V rms open (THD=1%)
19.	Display Panel LCD Panel
20.	Power 6~18V DC
21.	Current Consumption Typically 70mA
22.	Dimensions 145 (L) × 83 (W) × 35 (H) mm [5.7"(L) × 3.3"(W) × 1.35"(H)]
23.	Weights ~ 220gs [7.7 ozs.]
24.	Matching Transmitter Any Mipro ACT Series Transmitter
25.	Operating Environment From -10 to 60°C