

Innovation Through Design



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New Products

1. MA-808

Flagship Portable Wireless PA System (Upgrade Version)

The MA-808 flagship portable wireless PA system is now upgraded to deliver better and more powerful music sound by enhancing low frequency response and sensitivity of speakers.



2. MA-101G

Personal PA System

The MA-101G has a built-in 2.4GHz true diversity receiver module.



3. MRM-24

2.4 GHz Receiver Module

The new MRM-24 2.4GHz receiver module is compatible with MA-505, MA-707, MA-708, MA-808.



4. MRM-70W

Wideband Receiver Module

The new MRM-70W wideband receiver module has 72 MHz expanded bandwidth. It fits in all MIPRO portable wireless PA models.



5. MRM-80

Wideband Digital Receiver Module

The new exclusive encrypted MRM-80 wideband digital receiver module has 64 MHz bandwidth and shares the same features with ACT-8 Series receiver. Compatible with ACT-80H / 80HC handheld transmitters and ACT-80T / 80TC bodypack transmitters. It fits in all MIPRO portable wireless PA models.



6. DPM-3P

Digital Player & Recorder Module (Upgrade Version)

The DPM-3P digital player and recorder has newly designed control panel. The speed control is now added to adjust playing speed. Improved sound definition for better recording quality.



I. Personal Wireless Public Address Systems

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I. Personal Wireless Public Address Systems

1. An Overview of Personal Wireless PA Systems

For 20 years, MA-101 has been mass-produced, sold worldwide and it remains a market-leading system as MIPRO ensures product design, craftsmanship and reliability are second to none. Since 2012, upgraded rechargeable lithium battery replaces sealed lead-acid rechargeable battery for reducing weight significantly for portability as it also extends battery operating hours & increases battery lifespan.

Since 2002, MIPRO introduced the industry's only MA-101ACT Wireless Classroom PA System, which ensures each teacher can carry their own personal remote-control wireless microphone going from classroom to classroom.

In 2009, MIPRO introduced the flagship MA-202B wireless PA system, which boasts versatile features such as the built-in storage compartment and battery charger for ACT-222T handheld transmitter.

In 2012, MIPRO introduced the ultra-compact and ultra-lightweight MA-100 personal wireless PA system. It is powerful, feature-rich and power efficient.

In 2016, MIPRO introduced the industry only license-free 2.4 GHz technology MA-101G personal wireless PA system.

Lightweight, robust and battery operated, these personal wireless PAs can be hand carried, shoulder strapped, put on a flat surface or mounted on a microphone stand. They are suitable for addressing small crowds. Ideal applications include school classrooms, places of worship, presentations, seminars and meetings, day-care activities; playground duty, tour guides & paging, fire fighters, law enforcement, search & rescue and factory or company tours.



I. Personal Wireless Public Address Systems

2. MA-202B Personal Wireless PA System

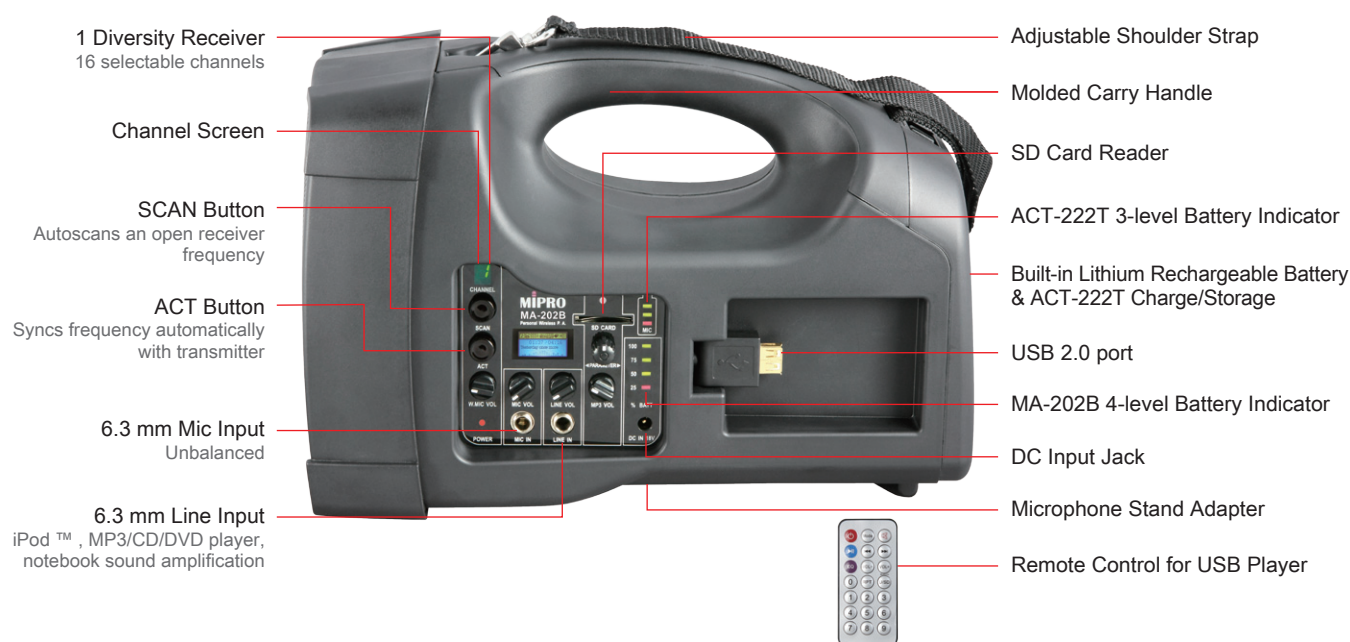


Transmitters

| UHF | | | | |
|--|--|--|--|--|
| ACT-222T | ACT-32H | ACT-32T | ACT-32HC | ACT-32TC |
|  |  |  |  |  |

Patents : Taiwan Utility M339173、M339174 Design D126294

Controls and Indicators



I. Personal Wireless Public Address Systems

Features

1. Powerful 56-watt high efficiency class-D amplifier drives 2-way loudspeakers for crystal-clear sound projection.
2. Built-in wireless receiver with 16 auto-scannable frequencies.
3. One-touch Scan & ACT sync buttons for fast and easy channel set-up.
4. AC and lithium rechargeable battery operation.
5. Up to 8-hour of stand-by time per 4-hour full charge.
6. 4-segment battery meter for accurate MA-202B battery readings and charging status.
7. USB & SD music player with LCD screen and individual volume controls.
8. Convenient storage compartment and battery charger for lightweight ACT-222T handheld transmitter microphone.
9. 3-segment battery meter for accurate ACT-222T battery readings and charging status.
10. Receiver volume can be adjusted by MA-202B itself or remotely via ACT-222T.
11. Optional ACT-32H handheld transmitter microphone for improved sound quality.

Ideal Applications

- School classrooms
- Places of worship
- Presentations, seminars and meetings
- Day-care activities; playground duty
- Tour guides & paging
- Fire fighters, law enforcement, search & rescue
- Street performers
- Factory or company tours

Specifications

| Portable PA | |
|------------------------|---|
| Max. Power Output | 56 Watts |
| Amplifier | Class D |
| Sensitivity | Typical: 96 dB Maximum: 105 dB |
| T.H.D. | < 1 % |
| Frequency Response | 50 Hz ~ 18 kHz |
| Loudspeaker | 1 " Tweeter and 5 " Woofer |
| Audio Input | Wired 6.3 mm (1/4 ") |
| | Wireless Single-Channel |
| | Digital Player USB 2.0 and SD Card Reader |
| | Line-In 6.3 mm (1/4 ") |
| Volume Control | Wired, Wireless, Line-in & Digital Player |
| Installation | Microphone stand, table mounted, shoulder belt |
| Power Supply | AC External 100 ~ 240 V AC switching power supply (Max. Power Consumption: 60 W) |
| | DC & Battery Built-in 14.8 V / 2.6 AH rechargeable lithium battery (MB-25 × 1) |
| Charge Time | Up to 4 hours |
| Standby Time | Up to 8 hours |
| Battery Indicator | 4-level indicator (25/50/75/100%) |
| Color | Black |
| Dimensions (W × H × D) | 163 × 206 × 306 mm 6.4 × 8.1 × 12 " |
| Weight | Approx. 2.9 kg / 6.4 lbs, battery included |
| Wireless System | |
| Receiver Channel | Single |
| Frequency Range | 480 ~ 934 MHz (country dependent) |
| Bandwidth | 24 MHz |
| Preset Channels | 16 |
| Channel Set-up | Scan & ACT sync |
| Transmitters | ACT-222T / ACT-32H / ACT-32HC Handheld ACT-32T / ACT-32TC Bodypack |
| Microphone | MM-107 Wired Dynamic Microphone |
| Antenna | Built-in |
| Digital Audio Player | |
| Player | Built-in USB 2.0 port and SD Card reader |
| Patents & Approvals | Patented. Telecom and safety regulations approved. |
| Notes | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. |

ACT-222T Rechargeable Handheld Transmitter



Features

1. Compact, lightweight and easy to use.
2. Quality condenser microphone ensures loud and clear vocal quality.
3. Level control allows wireless volume adjustment.
4. Can be hand-held or worn as a neck lanyard for hands-free operation.
5. Can be re-charged and stored inside the MA-202B.
6. Amazing 24 operating hours per charge.

Specifications

| | |
|------------------------|--|
| Frequency Range | 480 ~ 934 MHz (country dependent) |
| Oscillation Mode | PLL Synthesized |
| Channel Set-Up | ACT Sync |
| RF Output Power | 10 ~ 30 mW (country dependent) |
| Deviation | < ± 40 kHz |
| Spurious Emissions | < -55 dBc |
| Key Feature | Built-in volume level control |
| Battery | Rechargeable lithium battery (8MPBA222T) |
| Charge Time | Up to 6 hours |
| Operating Time | Up to 24 hours |
| Dimensions (W × H × D) | 182 × 42 × 32 mm / 7.1 × 1.6 × 1.3 " |
| Weight | Approx. 128 g / 4.5 oz, battery included |

I. Personal Wireless Public Address Systems

3. MA-101B Personal Wireless PA System



Transmitters

| UHF | | | |
|---|---|---|---|
| ACT-32H | ACT-32T | ACT-32HC | ACT-32TC |
|  |  |  |  |

4. MA-101G 2.4 GHz Personal Wireless PA System

NEW



Transmitters

| 2.4 GHz | |
|---|---|
| ACT-24HC | ACT-24TC |
|  |  |

MA-101B Controls and Indicators



I. Personal Wireless Public Address Systems

Features

1. Lightweight, contoured and ultra-portable design.
2. MA-101B has built-in 1 UHF PLL diversity receiver module with 16 auto-scannable frequencies.
3. MA-101G has built-in 1 2.4GHz true diversity receiver module with 10 auto-scannable frequencies.
4. Powerful and crystal-clear sound projection thanks to high efficiency amplifier driving a full-range speaker.
5. Replaced sealed lead-acid battery to rechargeable lithium battery for improved reliability, longer life and reduced weight.
6. AC and lithium rechargeable battery operation.
7. Up to 10 hours of standby time per 4-hour charge.
8. 3.5 mm line input accepts external MP3, iPod and CD player.
9. Simple to use and can be easily carried via the built-in handle, shoulder strap, or mounted on a microphone stand.

Ideal Applications

- School classrooms
- Places of worship
- Presentations, seminars and meetings
- Day-care activities; playground duty
- Indoor/outdoor gatherings
- Tour guides & paging
- Fire fighters, law enforcement, search & rescue
- Street performers
- Factory or company tours

Specifications

| Model | | MA-101B | MA-101G |
|---------------------------|--------------|---|--|
| Portable PA | | | |
| Max. Power Output | | 45 Watts | |
| Amplifier | | Class AB | Class D |
| Sensitivity | | Typical: 95 dB Maximum: 107 dB | |
| T.H.D. | | < 1% | < 0.1% @ 1 kHz |
| Frequency Response | | 60 Hz ~ 15 kHz | 20 Hz ~ 20 kHz |
| Loudspeaker | | 5 " full-range, high efficiency | |
| Audio Inputs | Wired | 6.3 mm (1/4 ") | |
| | Line-In | 3.5 mm (1/8 ") | |
| Audio Output | | 3.5 mm (1/8 ") | |
| Installation | | Microphone stand, table mounted, shoulder belt | |
| Power Supply | AC | External 100 ~ 240 V AC switching power supply (Max. Power Consumption: 60 W) | |
| | DC & Battery | Built-in 14.8 V / 2.6 AH rechargeable lithium battery (MB-25 × 1) | |
| Charge Time | | Up to 4 hours (automatic charging management) | |
| Standby Time | | Up to 10 hours | |
| Battery Indicator | | Single LED indicator | |
| Color | | Grayish Black | Black |
| Dimensions (W × H × D) | | 160 × 178 × 285 mm / 6.3 × 7 × 11.2 " | |
| Weight (battery included) | | Approx. 2.2 kg / 4.8 lbs | |
| Wireless System | | | |
| Receiver Channel | | UHF, Single | 2.4 GHz, Single |
| Frequency Range | | UHF 480 ~ 934 MHz (country dependent) | 2,400 ~ 2,483.5 MHz |
| Bandwidth | | 24 MHz | 83.5 MHz |
| Preset Channels | | 16 | 10 |
| Channel Set-up | | Scan & ACT sync | |
| Transmitters | | ACT-32H / ACT-32HC Handheld ACT-32T / ACT-32TC Bodypack | ACT-24HC Handheld ACT-24TC Bodypack |
| Microphone | | MM-107 Wired Dynamic Microphone | |
| Antenna | | Built-in | |
| Patents & Approvals | | Patented. Telecom and safety regulations approved. | |
| Notes | | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. | |

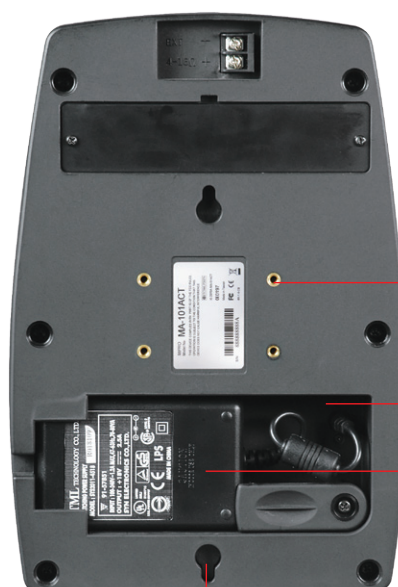
I. Personal Wireless Public Address Systems

5. MA-101ACT Wireless Classroom PA System

 **Bluetooth®** (Optional)



MA-101ACT Back Panel



Wall-Mounting Rack
Fixed Screw Holes

DC Power Socket

Switching Power
Supply

Hanger Trough

MT-101ACT Handheld Transmitter

Controls and Indicators



3.5 mm Line Input
iPod™, MP3/CD/DVD player,
notebook sound amplification

Power Switch with Battery
Low Indicator
Powers MT-101ACT on/off

Remote Power Button
Powers MA-101ACT
system on/off

Optional Accessories



MA-101EXP
Passive Extension Speaker



PC-11
Frequency Programmer



Wireless Volume Control

Microphone

Built-in 2 AA
Rechargeable Batteries
Up to 24 hours per charge

Mic / Line Switch
Microphone or line level
amplification



MP-101ACT
MT-101ACT Mic Charger



MS-11
Wall Mount Bracket

I. Personal Wireless Public Address Systems

MA-101ACT Wireless PA Speaker Features

1. Powerful 45-watt 5" full-range speaker delivers loud and clear sound.
2. Suitable for wall or ceiling mounting (wall mount bracket included).
3. Power on/off and volume adjustment can be remotely controlled via the wireless transmitter microphone.
4. Detachable 100 to 240 V AC auto-switching power supply.

MT-101ACT Wireless Transmitter Microphone Features

1. Personal, compact, lightweight, multi-functional and versatile.
2. Powered via built-in rechargeable or disposable alkaline batteries.
3. Same wireless microphone can be used in up to 97 different rooms – all with different frequencies to avoid crosstalk or loss of privacy.
4. Includes a slide control for wireless volume adjustment and level switch of the speaker.
5. Built-in 3.5 mm mini-jack line-input (mono) accepts an external portable music player such as an iPod/MP3 or CD player for sound amplification.
6. Can be handheld or worn as a neck lanyard for hands-free operation with an optional lapel or headworn microphone.
7. Included MP-101ACT drop-in charger ensures the microphone is always charged and ready to use.
8. Operates up to 24 hours with a 3-hour fast charge.

Ideal Applications

- Multiple classrooms
- Multiple meeting rooms
- Tours for factories, companies, theme parks, zoos

Specifications

| | |
|------------------------|---|
| Max. Power Output | 45 Watts |
| Sensitivity | Typical: 94 dB Maximum 103 dB |
| T.H.D. | < 1% |
| Frequency Response | 60 Hz ~ 15 kHz |
| Loudspeaker | 5 " full-range high efficiency |
| Bluetooth Connectivity | Optional |
| Power Supply | Built-in 100 ~ 240 V AC detachable switching power supply |
| Installation | Wall mounted |
| Color | Black |
| Dimensions (W × H × D) | 190 × 275 × 155 mm 7.5 × 10.8 × 6.1 " |
| Weight | Approx. 2.3 kg / 5 lbs |
| Wireless System | |
| Receiver Channel | Single |
| Frequency Range | 480 ~ 934 MHz (country dependent) |
| Preset Channels | Each swappable module has 97 UHF selectable frequencies |
| Channel Set-up | Scan & ACT sync |
| Transmitter | MT-101ACT |
| Antenna | Built-in |
| Approvals | Patented. Telecom and safety regulations approved. |



MT-101ACT Specifications

| | |
|------------------------|---|
| Frequency Range | 480 ~ 934 MHz (country dependent) |
| Oscillation Mode | PLL Synthesized |
| Channel Set-Up | ACT Sync |
| Audio Input | MT-101ACT accepts 3.5 mm Mic or Line audio input |
| Battery | Detachable rechargeable battery (2XA019 × 2) & charger attached |
| Charge Time | Up to 3 hours |
| Operating Time | Up to 24 hours |
| Dimensions (W × H × D) | 40 × 182 × 32 mm / 1.6 × 7.1 × 1.3 " |
| Net Weight | 157 g / 5.5 oz, excluding batteries |
| Approvals | Patented. Telecom and safety regulations approved. |

I. Personal Wireless Public Address Systems

6. MA-100SB Single-Channel Personal Wireless PA System



NEW



Transmitters

| UHF | | | |
|---------|---------|----------|----------|
| ACT-32H | ACT-32T | ACT-32HC | ACT-32TC |
| | | | |

Patents :
Taiwan Utility M409663, M409662
Design D143790, D143791

China Utility ZL201120076295.2, ZL201120076293.3
Design ZL201130046607.0, ZL201130046594.7

U.S. Design D653238
Design D651596

7. MA-100DB Dual-Channel Personal Wireless PA System



Controls and Indicators

NEW



I. Personal Wireless Public Address Systems

Features

1. Rugged yet lightweight one-piece molded cabinet.
2. Built-in 1 or 2 wireless diversity receivers with 16 auto-scannable frequencies.
3. One-touch Scan & Sync (ACT) button for fast and easy channel set-up.
4. Built-in Bluetooth receiver for wireless audio streaming.
5. Built-in USB music player & recorder with LCD screen.
6. Built-in one-button alarm/siren for warning of threats.
7. User-friendly control panel provides intuitive easy operation.
8. 50 W class-D amplifier to power a 5" full range driver.
9. AC and lithium rechargeable battery operation.
10. Up to 12 hours of stand-by time per 4-hour full charge.
11. Weighs only 1.8 kgs | 3.9 pounds.

Ideal Applications

- School classrooms
- Places of worship
- Presentations, seminars and meetings
- Day-care activities; playground duty
- Indoor/outdoor gatherings
- Tour guides & paging
- Fire fighters, law enforcement, search & rescue squads
- Street performers
- Factory and company tours

Specifications

| Model | | MA-100SB | | MA-100DB | |
|---------------------------|--------------|---|--|--------------------------|--|
| | | Portable PA | | | |
| Max. Power Output | | 50 Watts | | | |
| Amplifier | | Class D | | | |
| Sensitivity | | Typical: 90 dB Maximum: 102 dB | | | |
| T.H.D. | | < 1% | | | |
| Frequency Response | | 50 Hz ~ 18 kHz | | | |
| Speaker | | 5 " full-range, high efficiency | | | |
| Audio Inputs | Wired | 6.3 mm (1/4 ") | | | |
| | Line-In | 3.5 mm (1/8 ") | | | |
| Bluetooth Connectivity | | Yes | | | |
| Audio Output | | 3.5 mm (1/8 ") | | | |
| Alarm Siren | | Siren sound with fade-in mode | | | |
| Installation | | Microphone stand, table mounted, shoulder belt | | | |
| Power Supply | AC | External 100 ~ 240 V AC switching power supply (Max. Power Consumption: 60 W) | | | |
| | DC & Battery | Built-in 14.8 V / 2.6 AH rechargeable lithium battery (MB-10 × 1) | | | |
| Charge Time | | Up to 4 hours (automatic charging management) | | | |
| Standby Time | | Up to 12 hours | | Up to 10 hours | |
| Battery Indicator | | 4-level indicator (25/50/75/100%) | | | |
| Color | | Black or white option | | | |
| Dimensions (W × H × D) | | 135 × 144 × 240 mm / 5.3 × 5.6 × 9.4 " | | | |
| Weight (battery included) | | Approx. 1.8 kg / 3.9 lbs | | Approx. 1.9 kg / 4.1 lbs | |
| Wireless System | | | | | |
| Receiver Channel | | Single | | Dual | |
| Frequency Range | | 480 ~ 934 MHz (country dependent) | | | |
| Bandwidth | | 24 MHz | | | |
| Preset Channels | | 16 | | | |
| Channel Set-up | | Scan & ACT sync | | | |
| Transmitter | | ACT-32H / ACT-32HC Handheld ACT-32T / ACT-32TC Bodypack | | | |
| Microphone | | MM-107 Wired Dynamic Microphone | | | |
| Antenna | | Built-in | | | |
| Audio Player | | | | | |
| Built-in USB Port | | USB 2.0 | | | |
| USB Play & Record | | LCD displays track name, number, time, recording status. | | | |
| Operation | | On-board. USB remote control included. | | | |
| Patents & Approvals | | Patented. Telecom and safety regulations approved. | | | |
| Notes | | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. | | | |

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II. Portable Wireless Public Address Systems

1. An Overview of Portable Wireless PA Systems

Since 1995, the one-piece molded enclosure and trolley MA-707 portable wireless PA has remained a market-leading system. Mass-produced and sold worldwide for 20 years as MIPRO ensures product design, craftsmanship and reliability are second to none.

Introduced in 2005, the innovative MA-808 flagship leading-edge portable wireless PA features exclusive appearance, Hi-fi audio, and a host of impressive functionalities.

In 2006, MIPRO introduced MA-708 portable wireless PA. More innovative features were added in 2016 and it won the prestige “Red Dot” award.

In 2012, MIPRO introduced the ultra-compact, fully-featured MA-303 portable wireless PA system.

In 2013, MIPRO introduced MA-505, a culmination of years of wireless PA design and was awarded the 2016 “Taiwan Excellence” award.

All of MA Series have built UHF ACT wireless diversity receivers and built-in antennas for optimal reception and breakage prevention.

MIPRO is the only authorized MP3 and Bluetooth licensee wireless PA manufacturer in Taiwan.

MIPRO has been the leading brand of the portable wireless PA systems as each system delivers unparalleled audio performance and craftsmanship. The overall system design guarantees powerful and clear sound and offers an ideal public address solution for medium to large crowds. Ideal applications include: School sports events and marching bands, places of worship, presentations, seminars and meetings, shopping center presentations and promotions, aerobic & fitness centers, parades & fetes and weddings & funeral services.



II. Portable Wireless Public Address Systems

2. MA-808 Portable Wireless PA System



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Transmitters

| UHF (MRM-70B MRM-72B) | | | | | | |
|-------------------------|---------|----------|----------|-------|-------|-------|
| ACT-32HR | ACT-32T | ACT-32HC | ACT-32TC | ST-32 | VT-22 | ET-32 |
| | | | | | | |

| UHF (MRM-80) | | | | UHF (MRM-70W) | | | |
|----------------|---------|----------|----------|-----------------|---------|----------|----------|
| ACT-80H | ACT-80T | ACT-80HC | ACT-80TC | ACT-70H | ACT-70T | ACT-70HC | ACT-70TC |
| | | | | | | | |

| 2.4 GHz | | | | | |
|----------|----------|-------|-------|-------|-------|
| ACT-24HC | ACT-24TC | VT-24 | ST-24 | ET-24 | MT-24 |
| | | | | | |













Model shown with accessories

Patents : Taiwan Design D112612 China Design ZL200530143378.9



II. Portable Wireless Public Address Systems

Receiver Module and Audio Player

| UHF | | |
|---|---|---|
| MRM-80 | MRM-70W | MRM-70B |
|  |  |  |
| UHF | | 2.4 GHz |
| MRM-72B | MTM-92 | MRM-24 |
|  |  |  |
| Audio Players | | |
| DPM-3P | DPM-3 | CDM-3A |
|  |  |  |
| CDM-2 | CDM-2A | CDM-2B |
|  |  |  |

Features

1. Robust, rugged enclosure, built-in class D & AB amplifiers system with 10" woofer and 1.5" tweeter.
2. Up to 4 UHF or 2.4 GHz diversity receiver modules with 16 auto-scannable frequencies and built-in active antenna prevents accidental antenna breakage.
3. Plug-&-play CD/MP3 player, plus certified Bluetooth receiver for music streaming.
4. Voice Priority mutes music when a wireless mic is used.
5. Echo effect for richer-sounding vocals.
6. Industry's only Master volume with "Memory" and "Standard" mode options. "Memory" mode saves and recalls last volume level during next power on. "Standard" mode resets to zero level.
7. Industry's only master volume that can be remotely controlled by an optional ACT-32HR transmitter microphone directly instead of a separate remote.
8. Retractable handle and rugged wheels make it amazingly easy to transport.
9. Built-in storage compartment for 2 handhelds or bodypack transmitters.
10. Wirelessly link 2 or more MA-808 systems for more sonic coverage (industry's only MTM-92 transmitter module is required).
11. Active limiter prevents speaker damage from loud signal spikes.
12. Can be powered via AC power, battery or direct DC.
13. Suitable for tripod, floor or desk mount.

Ideal Applications

- School sports events and marching bands
- Large meetings and public gatherings
- Presentations, seminars and meetings
- Shopping center presentations and promotions
- Places of worship
- Aerobic & fitness centers
- Parades & fetes
- Street performers
- Park and recreational facilities
- Emergency and rescue situations
- Weddings & funeral services
- Public auctions

Specifications

| Portable PA | |
|-----------------------------|---|
| Max. Power Output | 267 W: 190 W (woofer) 77 W (tweeter) |
| Amplifier | Class D & Class AB |
| Sensitivity | Typical: 96 dB Maximum: 111 dB |
| T.H.D. | < 1% |
| Frequency Response | 50 Hz ~ 18 kHz |
| Speaker | Tweeter 1.5 " Compression Driver |
| | Woofer 10 " Neodymium |
| Coverage | H 60° × V 50° |
| Audio Inputs | Wired XLR × 1 & 6.3 mm (1/4 ") × 1 |
| | Wireless Up to 4 wireless microphones |
| | Audio Player CDM-2A CDM-2 CDM-2B CDM-3A DPM-3 DPM-3P |
| | Line-In Unbalanced RCA jack |
| Bluetooth Connectivity | Yes |
| Audio Output | Unbalanced Line RCA jack |
| Extension Speaker | Speakon output |
| Master Volume Control | Manually or Wirelessly via ACT-32HR |
| Controls | Tone, Voice priority & Echo on wireless mics |
| Storage | 2 handheld or bodypack transmitters |
| Installation | Speaker stand, flat surface or retractable handle & wheels |
| Power Supply | AC Built-in 100 ~ 240 V AC switching power supply (Max. Power Consumption: 352 W) |
| | DC & Battery 24 ~ 32 V DC, 12V / 4.5AH rechargeable gel cell battery (MB-70 × 2) or optional MB-80 × 2 |
| Charge Time | Up to 8 hours (automatic charging management) |
| Standby Time | Up to 6 hours |
| Battery Indicator | 4-level indicator (25/50/75/100%) |
| Color | Black |
| Dimensions (W × H × D) | 360 × 560 × 350 mm 14.2 × 22 × 13.8 " |
| Weight | Approx. 20.5 kg / 45 lbs, batteries included |
| Wireless System | |
| Receiver | 1 or 2 MRM-70B MRM-70W MRM-80 MRM-24 Scan & ACT sync |
| Max. Receiver | Up to 4 |
| Frequency Range | MRM-70B MRM-70W MRM-80: UHF 480 ~ 934 MHz (country dependent) MRM-24: 2.4 GHz |
| Preset Channels & Bandwidth | See Accessories - Receiver Modules (P.26) |
| Preset Channels | See Accessories - Receiver Modules (P.26) |
| Transmitters | See Accessories - Receiver Modules (P.26) |
| Microphones | MM-107 MM-39 MM-59 Wired Dynamic Microphone |
| Interlinking Transmitter | MTM-92 |
| Installation | Plug-in Module |
| Antenna | Built-in |
| Audio Player | |
| Model | CDM-2A CDM-2 CDM-2B CDM-3A DPM-3 DPM-3P |
| Installation | Plug-in Module |
| Patents & Approvals | Patented. Telecom & safety regulations approved. |
| Notes | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. |

II. Portable Wireless Public Address Systems

3. MA-708 Portable Wireless PA System



TAIWAN
EXCELLENCE
2017



reddot award 2016
winner



Transmitters

| UHF (MRM-70B MRM-72B) | | | | | | |
|-------------------------|---------|----------|----------|-------|-------|-------|
| ACT-32HR | ACT-32T | ACT-32HC | ACT-32TC | ST-32 | VT-22 | ET-32 |
| | | | | | | |

| UHF (MRM-80) | | | | UHF (MRM-70W) | | | |
|----------------|---------|----------|----------|-----------------|---------|----------|----------|
| ACT-80H | ACT-80T | ACT-80HC | ACT-80TC | ACT-70H | ACT-70T | ACT-70HC | ACT-70TC |
| | | | | | | | |













| 2.4 GHz | | | | | |
|----------|----------|-------|-------|-------|-------|
| ACT-24HC | ACT-24TC | VT-24 | ST-24 | ET-24 | MT-24 |
| | | | | | |

Model shown with accessories



II. Portable Wireless Public Address Systems

Receiver Module and Audio Player

| UHF | | |
|---|---|---|
| MRM-80 | MRM-70W | MRM-70B |
|  |  |  |
| UHF | | 2.4 GHz |
| MRM-72B | MTM-92 | MRM-24 |
|  |  |  |
| Audio Players | | |
| DPM-3P | DPM-3 | CDM-3A |
|  |  |  |
| CDM-2 | CDM-2A | CDM-2B |
|  |  |  |

Features

1. Robust, rugged enclosure, built-in class D amplifiers system with 8" woofer and 1" tweeter.
2. Up to 4 UHF or 2.4 GHz diversity receiver modules with 16 auto-scannable frequencies and built-in active antenna prevents accidental antenna breakage.
3. Plug-&-play CD/MP3 player, plus certified Bluetooth receiver for music streaming.
4. Voice Priority mutes music when a wireless mic is used.
5. Echo effect for richer-sounding vocals.
6. Industry's only Master volume with "Memory" and "Standard" mode options. "Memory" mode saves and recalls last volume level during next power on. "Standard" mode resets to zero level.
7. Industry's only master volume that can be remotely controlled by an optional ACT-32HR transmitter microphone directly instead of a separate remote.
8. Retractable handle and rugged wheels make it amazingly easy to transport.
9. Built-in storage compartment for 2 handhelds or bodypack transmitters.
10. Wirelessly link 2 or more MA-708 systems for more sonic coverage (industry's only MTM-92 transmitter module is required).
11. Active limiter prevents speaker damage from loud signal spikes.
12. Can be powered via AC power, battery or direct DC.
13. Weighs only 16 kgs | 35 lbs. fully loaded.

Ideal Applications

- School sports events and marching bands
- Large meetings and public gatherings
- Presentations, seminars and meetings
- Shopping center presentations and promotions
- Places of worship
- Aerobic & fitness centers
- Parades & fetes
- Street performers
- Park and recreational facilities
- Emergency and rescue situations
- Weddings & funeral services
- Public auctions

Specifications

| Portable PA | |
|-----------------------------|---|
| Max. Power Output | 190 Watts |
| Amplifier | Class D |
| Sensitivity | Typical: 89 dB Maximum: 108 dB |
| T.H.D. | < 1% |
| Frequency Response | 50 Hz ~ 18 kHz |
| Speaker | Tweeter 1 " Compression Driver |
| | Bass 8 " Woofer |
| Coverage | H 80° × V 60° |
| Audio Inputs | Wired XLR × 1 & 6.3 mm (1/4 ") × 1 |
| | Wireless Up to 4 wireless microphones |
| | Audio Player CDM-2A CDM-2 CDM-2B CDM-3A DPM-3 DPM-3P |
| | Line-In Unbalanced RCA jack |
| Bluetooth Connectivity | Yes |
| Audio Output | Unbalanced Line RCA jack |
| Extension Speaker | 6.3 mm (1/4 ") Phone jack |
| Master Volume Control | Manually or Wirelessly via ACT-32HR |
| Controls | Tone, Voice priority & Echo on wireless mics |
| Storage | 2 handheld or bodypack transmitters |
| Installation | Speaker stand, flat surface or retractable handle & wheels |
| Power Supply | AC Built-in 100 ~ 240 V AC switching power supply (Max. Power Consumption: 220 W) |
| | DC & Battery 24 ~ 32 V DC, 12V / 4.5AH rechargeable gel cell battery (MB-70 × 2) or optional MB-80 × 2 |
| Charge Time | Up to 8 hours (automatic charging management) |
| Standby Time | Up to 7 hours |
| Battery Indicator | 4-level indicator (25/50/75/100%) |
| Color | Black or white option |
| Dimensions (W × H × D) | 336 × 545 × 325 mm 13.2 × 21.5 × 12.8 " |
| Weight | Approx. 16.3 kg / 36 lbs, batteries included |
| Wireless System | |
| Receiver | 1 or 2 MRM-70B MRM-70W MRM-80 MRM-24 Scan & ACT sync |
| Max. Receiver | Up to 4 |
| Frequency Range | MRM-70B MRM-70W MRM-80: UHF 480 ~ 934 MHz (country dependent) MRM-24: 2.4 GHz |
| Preset Channels & Bandwidth | See Accessories - Receiver Modules (P.26) |
| Preset Channels | See Accessories - Receiver Modules (P.26) |
| Transmitters | See Accessories - Receiver Modules (P.26) |
| Microphones | MM-107 MM-39 MM-59 Wired Dynamic Microphone |
| Interlinking Transmitter | MTM-92 |
| Installation | Plug-in Module |
| Antenna | Built-in |
| Audio Player | |
| Model | CDM-2A CDM-2 CDM-2B CDM-3A DPM-3 DPM-3P |
| Installation | Plug-in Module |
| Patents & Approvals | Patented. Telecom & safety regulations approved. |
| Notes | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. |

II. Portable Wireless Public Address Systems

4. MA-707 Portable Wireless PA System



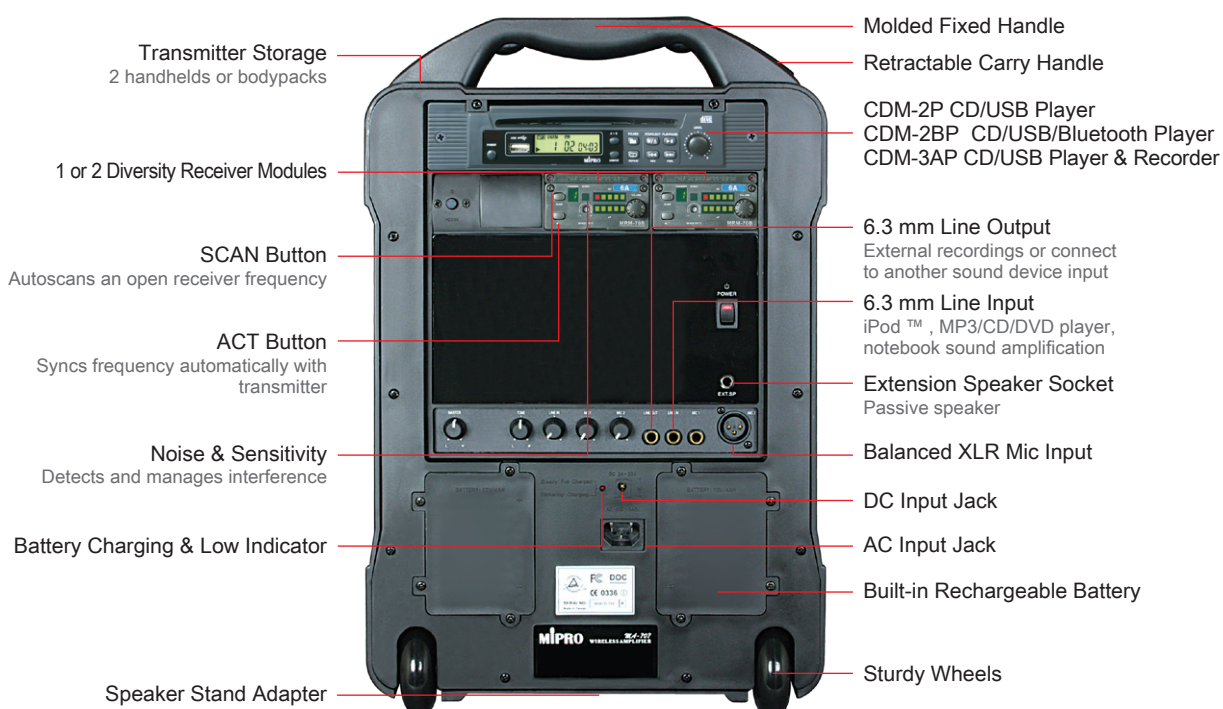
Transmitters

| UHF (MRM-70B MRM-72B) | | | | | | |
|-------------------------|---------|----------|----------|-------|-------|-------|
| ACT-32H | ACT-32T | ACT-32HC | ACT-32TC | ST-32 | VT-22 | ET-32 |
| | | | | | | |

| UHF (MRM-80) | | | | UHF (MRM-70W) | | | |
|----------------|---------|----------|----------|-----------------|---------|----------|----------|
| ACT-80H | ACT-80T | ACT-80HC | ACT-80TC | ACT-70H | ACT-70T | ACT-70HC | ACT-70TC |
| | | | | | | | |



| 2.4 GHz | | | | | |
|----------|----------|-------|-------|-------|-------|
| ACT-24HC | ACT-24TC | VT-24 | ST-24 | ET-24 | MT-24 |
| | | | | | |



Model shown with accessories



II. Portable Wireless Public Address Systems

Receiver Module and Audio Player

| UHF | |
|---|---|
| MRM-80 | MRM-70W |
|  |  |

| UHF | 2.4 GHz |
|---|---|
| MRM-70B | MRM-24 |
|  |  |

| Audio Players | | |
|---|---|---|
| CDM-3AP | CDM-2P | CDM-2BP |
|  |  |  |

Features

1. Robust enclosure, 100-watt portable PA system with 8" full-range speaker.
2. Up to 2 UHF diversity receiver modules with 16 auto-scannable frequencies and built-in active antenna prevents accidental antenna breakage.
3. Plug-&-play CD/MP3 player.
4. Retractable handle and rugged wheels make it amazingly easy to transport.
5. Built-in storage compartment for 2 handhelds or bodypack transmitters.
6. Built-in AC switching power supply for universal usage.
7. Can be powered via AC power, battery, or direct DC.
8. Weighs only 14 kgs | 30 lbs. fully loaded.

Ideal Applications

- Schools
- Places of worship
- Presentations, seminars and meetings
- Shopping center & trade show presentations and promotions
- Aerobic & fitness centers
- Parades & fetes
- Street performers
- Park and recreational facilities
- Emergency interventions
- Weddings & funeral services
- Public auctions

Specifications

| Portable PA | | |
|-----------------------------|--------------|---|
| Max. Power Output | | 100 Watts |
| Amplifier | | Class AB |
| Sensitivity | | Typical: 98 dB Maximum: 111 dB |
| T.H.D. | | < 1% |
| Frequency Response | | 50 Hz ~ 18 kHz |
| Speaker | | 8 " full-range |
| Audio Inputs | Wired | XLR × 1 & 6.3mm (1/4 ") × 1 |
| | Wireless | Up to 2 wireless microphones |
| | Audio Player | CDM-2P CDM-2BP CDM-3AP |
| | Line-In | Unbalanced 6.3mm (1/4 ") jack |
| Audio Output | | Unbalanced Line 6.3mm (1/4 ") jack |
| Extension Speaker | | 6.3 mm (1/4 ") Phone jack |
| Volume | | Master and other individual controls |
| Controls | | Tone control |
| Storage | | 2 handheld or bodypack transmitters |
| Installation | | Speaker stand, flat surface or retractable handle & wheels |
| Power Supply | AC | Built-in 100 ~ 240 V AC switching power supply (Max. Power Consumption: 120 W) |
| | DC & Battery | 24 ~ 32 V DC, 12 V / 4.5 AH rechargeable gel cell battery (MB-70 × 2) or optional MB-80 × 2 |
| Charge Time | | Up to 8 hours (automatic charging management) |
| Standby Time | | Up to 8 hours |
| Battery Indicator | | Single LED Indicator |
| Color | | Black |
| Dimensions (W × H × D) | | 310 × 445 × 240 mm 12.2 × 17.5 × 9.4 " |
| Weight | | Approx. 14.8 kg / 32.5 lbs, batteries included |
| Wireless System | | |
| Receiver | | MRM-70B MRM-70W MRM-80 MRM-24 Scan & ACT sync |
| Max. Receiver | | Up to 2 |
| Frequency Range | | MRM-70B MRM-70W MRM-80: UHF 480 ~ 934 MHz (country dependent) MRM-24: 2.4 GHz |
| Preset Channels & Bandwidth | | See Accessories - Receiver Modules (P.26) |
| Preset Channels | | See Accessories - Receiver Modules (P.26) |
| Transmitters | | See Accessories - Receiver Modules (P.26) |
| Microphones | | MM-107 MM-39 MM-59 Wired Dynamic Microphone |
| Installation | | Plug-in Module |
| Antenna | | Built-in |
| Audio Player | | |
| Model | | CDM-2P CDM-2BP CDM-3AP |
| Installation | | Plug-in Module |
| Patents & Approvals | | Patented. Telecom & safety regulations approved. |
| Notes | | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. |

II. Portable Wireless Public Address Systems

5. MA-505 Portable Wireless PA System



Transmitters

| UHF (MRM-70B MRM-72B) | | | | | | |
|-------------------------|---------|----------|----------|-------|-------|-------|
| ACT-32H | ACT-32T | ACT-32HC | ACT-32TC | ST-32 | VT-22 | ET-32 |
| | | | | | | |

| UHF (MRM-80) | | | | UHF (MRM-70W) | | | |
|----------------|---------|----------|----------|-----------------|---------|----------|----------|
| ACT-80H | ACT-80T | ACT-80HC | ACT-80TC | ACT-70H | ACT-70T | ACT-70HC | ACT-70TC |
| | | | | | | | |












| 2.4 GHz | | | | | |
|----------|----------|-------|-------|-------|-------|
| ACT-24HC | ACT-24TC | VT-24 | ST-24 | ET-24 | MT-24 |
| | | | | | |

Controls and Indicators



II. Portable Wireless Public Address Systems

Receiver Module and Audio Player

| UHF | | |
|---|---|---|
| MRM-80 | MRM-70W | MRM-70B |
|  |  |  |
| UHF | 2.4 GHz | |
| MTM-91 | MRM-24 | |
|  |  | |
| Audio Players | | |
| DPM-3P | DPM-3 | CDM-3A |
|  |  |  |
| CDM-2 | CDM-2A | CDM-2B |
|  |  |  |

Features

1. Robust, rugged enclosure, 145-watt portable PA system with 8" woofer and 1" tweeter.
2. Up to 2 UHF diversity receiver modules with 16 auto-scannable frequencies.
3. Built-in active antenna prevents accidental antenna breakage.
4. CD/MP3 player or MP3 player & recorder, plus certified Bluetooth receiver for music streaming.
5. Voice Priority mutes music when a wireless mic is used.
6. Built-in one-button fade-in alarm/siren for warning.
7. Wirelessly link 2 or more MA-505 systems for more sonic coverage (industry's only MTM-91 transmitter module is required).
8. Built-in AC-switching power supply for universal usage and fast battery charge.
9. Built-in storage compartment for AC power cable.
10. Can be powered via AC power or lithium rechargeable battery.
11. Weighs only 8.5 kgs | 18 lbs. fully loaded.
12. Ideal for medium sized crowds and applications.

Ideal Applications

- School classrooms & halls
- Places of worship
- Presentations, seminars and meetings
- Day-care activities; playground duty
- Indoor/outdoor gatherings
- Weddings & funeral services
- Shopping center & trade show presentations and promotions.
- Street performers
- Aerobic and fitness centers
- Recreational and social activities

Specifications

| Portable PA | |
|-----------------------------|---|
| Power Output | 100 Watts (rms) / 4Ω , 145 Watts (max) / 4Ω |
| Amplifier | Class D |
| Sensitivity | Typical: 91 dB Maximum: 109 dB |
| T.H.D. | < 1% |
| Frequency Response | 50 Hz ~ 18 kHz |
| Speaker | Tweeter 1 " Tweeter |
| | Bass 8 " Woofer |
| Coverage | H 130° × V 90° |
| Audio Inputs | Wired XLR × 1 & 6.3 mm (1/4 ") × 1 |
| | Wireless Up to 4. 2 Built-in & 2 External Detachable |
| | Audio Player CDM-2 CDM-2A CDM-2B CDM-3A DPM-3 DPM-3P |
| | Line-In 3.5 mm (1/8 ") mini-jack |
| Bluetooth Connectivity | Yes |
| Audio Output | 3.5 mm (1/8 ") mini-jack |
| Extension Speaker | Unbalanced 6.3 mm (1/4 ") jack |
| Volume | Individual volume control |
| Controls | Voice priority, Tone or optional Echo control |
| Alarm Siren | Siren sound with fade-in mode |
| Storage | For AC power cable |
| Installation | Hand carry, Flat surface or on a speaker stand. |
| Power Supply | AC Built-in 100 ~ 240 V AC switching power supply (Max. Power Consumption: 165 W) |
| | DC & Battery External DC connector. Built-in 22.2V/4.5AH rechargeable lithium (MB-35 × 1) |
| Charge Time | Up to 4 hours (automatic charging management) |
| Standby Time | Up to 8 hours |
| Battery Indicator | 4-level LED indicator (25/50/75/100%) |
| Color | Black |
| Dimensions (W × H × D) | 275 × 400 × 225 mm / 10.8 × 15.7 × 8.9 " |
| Weight | Approx. 8.5 kg / 18.7 lbs, battery included |
| Wireless System | |
| Built-in Fixed Receiver | 1 or 2 Scan & ACT sync |
| Detachable Module Receiver | 1 or 2 MRM-70B MRM-70W MRM-80 MRM-24 Scan & ACT sync |
| Frequency Range | MRM-70B MRM-70W MRM-80: UHF 480 ~ 934 MHz (country dependent) MRM-24: 2.4 GHz |
| Preset Channels & Bandwidth | See Accessories - Receiver Modules (P.26) |
| Preset Channels | See Accessories - Receiver Modules (P.26) |
| Transmitters | See Accessories - Receiver Modules (P.26) |
| Microphones | MM-107 MM-39 MM-59 Wired Dynamic Microphone |
| Interlinking Transmitter | MT-91 module |
| Installation | Plug-n-play for optional modules |
| Antenna | Built-in proprietary active high efficiency antenna |
| Audio Player | |
| Audio Player | CDM-2 CDM-2A CDM-2B CDM-3A DPM-3 DPM-3P |
| Patents & Approvals | Patented. Telecom & safety regulations approved. |
| Notes | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. |

II. Portable Wireless Public Address Systems

6. MA-303SB Single-Channel Portable Wireless PA System



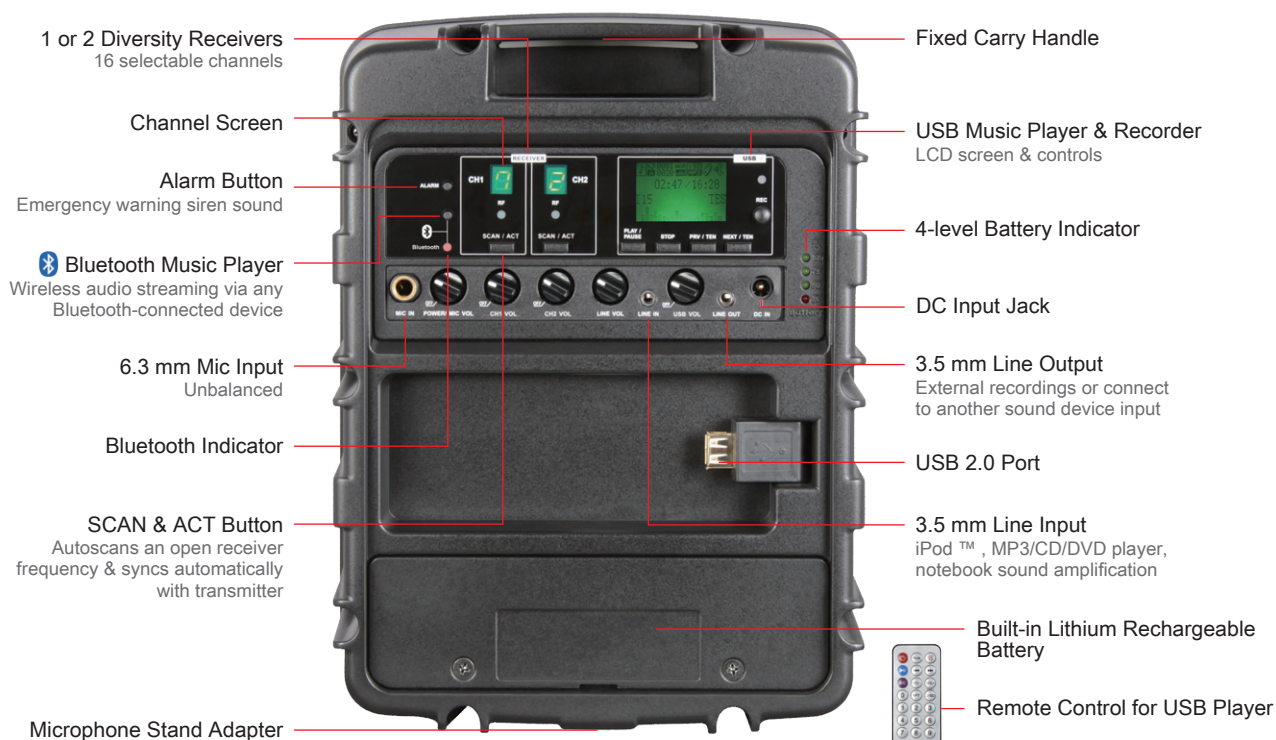
Patents : Taiwan Utility M339174



7. MA-303DB Dual-Channel Portable Wireless PA System



Controls and Indicators



II. Portable Wireless Public Address Systems

Transmitters



Features

1. Robust, rugged enclosure, 60-watt class-D amplifier with 5" woofer and 1" tweeter.
2. Up to 2 UHF diversity receiver modules with 16 auto-scannable frequencies.
3. Built-in active antenna prevents accidental antenna breakage.
4. Built-in MP3 player & recorder, plus certified Bluetooth receiver for music streaming.
5. Built-in one-button fade-in alarm/siren for warning.
6. 11 hours of stand-by time by its built-in lithium rechargeable battery, and 4-hour charge time.
7. A 4-level battery indicator displays the status of the battery.
8. Can be powered via AC power or lithium rechargeable battery.
9. Weighs only 2.7 kgs | 6 lbs. fully loaded.
10. Ideal for small- to medium-sized crowds, such as for schools, places of worship, corporate training, paging, trade shows, street performances, fitness instruction, and other comparable situations.

Ideal Applications

- School classrooms & halls
- Places of worship
- Presentations, seminars and meetings
- Day-care activities; playground duty
- Indoor/outdoor gatherings
- Paging
- Shopping center & trade show presentations and promotions
- Street performers
- Aerobic and fitness centers
- Recreational and social activities

Specifications

| Model | | MA-303SB | MA-303DB |
|---------------------------|--------------|---|--------------------------|
| Portable PA | | | |
| Max. Power Output | | 60 Watts | |
| Amplifier | | Class D | |
| Sensitivity | | Typical: 92 dB Maximum: 102 dB | |
| T.H.D. | | < 1% | |
| Frequency Response | | 50 Hz ~ 18 kHz | |
| Speaker | | 1 " Tweeter & 5 " Woofer | |
| Coverage | | H 120° × V 70° | |
| Audio Inputs | Wired | 6.3 mm (1/4 ") | |
| | Line-In | 3.5 mm (1/8 ") | |
| Bluetooth Connectivity | | Yes | |
| Audio Output | | 3.5 mm (1/8 ") | |
| Alarm Siren | | Siren sound with fade-in mode | |
| Installation | | Microphone stand, table mounted | |
| Power Supply | AC | External 100 ~ 240 V AC switching power supply (Max. Power Consumption: 60 W) | |
| | DC & Battery | Built-in 14.8 V / 2.6 AH rechargeable lithium battery (MB-10 × 1) | |
| Charge Time | | Up to 4 hours (automatic charging management) | |
| Standby Time | | Up to 11 hours | Up to 9 hours |
| Battery Indicator | | 4-level indicator (25/50/75/100%) | |
| Color | | Black or white option | |
| Dimensions (W × H × D) | | 210 × 276 × 165 mm 8.3 × 11 × 6.5 " | |
| Weight (battery included) | | Approx. 2.7 kg / 6 lbs | Approx. 2.8 kg / 6.2 lbs |
| Wireless System | | | |
| Receiver Channel | | Single | Dual |
| Frequency Range | | UHF 480 ~ 934 MHz (country dependent) | |
| Bandwidth | | 24 MHz | |
| Preset Channels | | 16 | |
| Channel Set-up | | Scan & ACT sync | |
| Transmitters | | ACT-32H ACT-32HC Handheld ACT-32T ACT-32TC Bodypack | |
| Microphones | | MM-107 Wired Dynamic Microphone | |
| Antenna | | Built-in | |
| Audio Player | | | |
| Built-in USB Port | | USB 2.0 | |
| USB Play & Record | | LCD displays track name, number, time, recording status. | |
| Operation | | On-board. USB remote control included. | |
| Patents & Approvals | | Patented. Telecom & safety regulations approved. | |
| Notes | | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with regulations of different countries. | |

III . Wireless Mixer

MA-909 Wireless Mixer



Features

1. The MA-909 is a breakthrough in the traditional designing concept of wireless PA systems. Introduced in 2002, this new integrated high-fidelity wireless interlinking amplifier system separates the control mixer from any amplified speaker system. The mixed audio signals from the MA-909 can be transmitted wirelessly to inter-linking receiver modules installed in one or more remote active speaker systems, thus allowing the mixer to be set up in any desired location without the need for bulky and inconvenient connecting cables. It was nominated by TEC Award in 2005.
2. EIA Standard 2U metal case equipped with plug-in dual UHF wireless receivers, CD player, wired microphone jack, LINE-IN jack of other audio sources and LINE-IN/OUT jack of recorder.
3. A wired microphone, two wireless microphones, CD/DVD players, and other audio sources can be mixed simultaneously to the input.
4. 16 preset channels.
5. Modular design for interlinking wireless receiver allows being built-in or mounted on active speaker systems.
6. The active speaker systems with an interlinking receiver module installed allow unlimited expansion or change of setup position within transmitting range.

Specifications

| | |
|------------------------|--|
| Chassis | EIA-standard 2RU |
| Receiver | Plug-in 2 UHF or 2.4 GHz receiver modules |
| Transmitters | See Accessories – Receiver Modules |
| Microphone | MM-107 MM-39 MM-59 Wired Dynamic Microphone |
| Audio Input | Built-in CD player module. Mic-in & Line-in |
| Audio Output | Line-out |
| Power Supply | Built-in 100 ~ 240 V AC switching power |
| Dimensions (W × H × D) | 420 × 88 × 200 mm 16.5 × 3.4 × 7.9 " |
| Weight | Approx. 5.2 kg / 11.5 lbs |
| Note | Refer to actual product in the event of product description discrepancy. |

Optional Accessories

| Model | MRM-80 | MRM-70W | MRM-70B | MRM-24 | MT-92 | MR-90B | CDM-2 |
|-------|--|--------------------------|-----------------|---------------------------------|------------------------------|---------------------------|----------------------|
| Photo | | | | | | | |
| Name | Wideband Digital Receiver Module | Wideband Receiver Module | Receiver Module | 2.4 GHz Digital Receiver Module | Interlink Transmitter Module | Interlink Receiver Module | CD/USB Player Module |
| Note | Additional specifications are available in Accessories (P.25). | | | | | | |

IV . Accessories

| | |
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IV. Accessories

1. Diversity Receiver Modules

Profile

The easy to install and use plug-and-play MRM-series receiver modules are designed mainly to fit MIPRO wireless portable PA systems for wireless microphone applications. Other unique installations can be considered for PA amplifiers, mixers, signal processors, and active speakers.

Compatible Transmitters

| Band | Receiver Module | | Handheld Transmitter | | Bodypack Transmitter | | Instrument Transmitter |
|---------|-----------------|--------------------|----------------------|---------------------------------|----------------------|--------------------------------|-------------------------------|
| UHF | Narrowband | MRM-70B MRM-72B | Narrowband | ACT-32H ACT-32HR ACT-32HC | Narrowband | ACT-52T ACT-32T ACT-32TC | VT-22, ST-32, ET-32 |
| | Wideband | MRM-70W | Wideband | ACT-70H ACT-70HC | Wideband | ACT-70T ACT-70TC | |
| | Digital | MRM-80 | Digital | ACT-80H ACT-80HC | Digital | ACT-80T ACT-80TC | |
| 2.4 GHz | MRM-24 | | ACT-24HC | | ACT-24TC | | ST-24, ET-24, MT-24, VT-24 |

1. MRM-70B UHF PLL Single-Channel Diversity Receiver Module

2. MRM-72B UHF PLL Dual-Channel Diversity Receiver Module



MRM-70B



MRM-72B

3. MRM-70W UHF PLL Wideband Single-Channel Diversity Receiver Module

4. MRM-80 UHF PLL Digital Single-Channel Diversity Receiver Module



MRM-70W

NEW



MRM-80

NEW

IV. Accessories

Features

1. Advanced diversity technology for optimum reception quality.
2. MRM-70B/MRM-72B preset with 16 auto-scannable frequencies. MRM-70W presets with 104 frequencies & MRM-80 presets with 64 frequencies.
3. One-touch Scan for a clear, interference-free frequency.
4. One-touch ACT™ syncs the transmitter and receiver frequency automatically.
5. Easy-to-read LED channel display.
6. Interference warning indicator.
7. "Sensitivity" adjustor can be adjusted to minimize interference.
8. Dual "PiloTone & NoiseLock" circuits minimize interference.
9. 5-segment RF and Audio meters.
10. Modular design allows easy installation and replacement.
11. When MRM-70B / MRM-72B is installed, master level control enables volume be wirelessly controlled by an ACT-32HR transmitter microphone instead of a separate remote. (MA-708 & MA-808 portables)

Specifications

| Model | MRM-70B | MRM-72B | MRM-70W | MRM-80 |
|---------------------------|--|--|---------------------------------------|------------------------|
| Type | Analog, Narrowband | | Analog, Wideband | Digital, Wideband |
| Channel | Single | Dual | Single | |
| Frequency Range | UHF 480 ~ 934 MHz (country dependent) | | | |
| Bandwidth | 24 MHz | | 72 MHz | 64 MHz |
| Preset Channels | 16 | | 104 | 64 |
| Channel Set-up | Scan and ACT sync | | | |
| Display Status | Channel, RF & audio meters and interference warning indicator | | | |
| Receiving Mode | CPU-controlled diversity receiving | | | Digital diversity |
| Oscillation Mode | PLL Synthesized. Frequency stability $\leq \pm 0.005\%$ (-10°C – +60°C) | | | |
| Deviation | < ± 40 kHz | | | N/A |
| Sensitivity | 10 dB μ V at S/N > 80 dB | | | N/A |
| S/N Ratio | > 100 dBA | | | N/A |
| T.H.D. | < 0.5% @ 1 kHz (Dev. = 32 kHz) | | | < 0.03% |
| Frequency Response | 60 Hz ~ 15 kHz (Overall system) | | | 20 Hz ~ 20 kHz (-2 dB) |
| Squelch Control | “PiloTone & NoiseLock” dual-squelch circuits | | | N/A |
| Spurious Emissions | < 82 dB | | | N/A |
| Audio Output | 610 mV rms | | | N/A |
| Encryption | N/A | | | 256 bits |
| Latency | N/A | | | < 3 ms |
| Power Supply | 12 ~ 15 V DC | | | |
| Dimensions (W × H × D) | 75 × 35 × 141 mm 3.0 × 1.4 × 5.6 " | 220 × 57 × 190 mm 8.7 × 2.2 × 7.5 " | 75 × 35 × 141 mm 3.0 × 1.4 × 5.6 " | |
| Weight | Approx. 126 g / 4.4 oz | Approx. 622 g / 22 oz | Approx. 126 g / 4.4 oz | |
| Transmitters | See P.46 Compatible Transmitters | | | |
| Operating Temperature | -10°C ~ +60°C | | | |
| Note | Refer to actual product in the event of product description discrepancy. | | | |

IV. Accessories

5. MRM-24 2.4 GHz Digital True Diversity Receiver Module

NEW



Features

1. Operates in the 2.4 GHz user license-free ISM band. Up to 12 preset compatible channels.
2. True diversity technology and stable digital FSK modulation circuit eliminate signal dropouts and ensure best reception quality.
3. Combining FHSS frequency-hopping technique with adaptive tracking algorithm to prevent interferences from other 2.4 GHz wireless devices.
4. Featuring an easy-to-read channel LED display, audio and transmitter battery status indicators.
5. The modular design allows for fast and easy installation or replacement.
6. No analog's companding noise. Ideal sound amplification for musical instruments.

Specifications

| | |
|--------------------------------------|--|
| Frequency Range | 2.4000 ~ 2.4835 GHz |
| Preset Frequency | 12 preset frequencies in total |
| Channel Set-up | Scan and ACT sync |
| Display Status | Channel, audio meters and the battery status of the transmitter |
| Receiving Mode | Dual-tuner Digital True Diversity |
| Sensitivity | +12 dB μ V |
| Frequency-hopping | Each channel has 4 preset hopping frequencies. |
| Audio Sampling | 24-bit / 44.1 kHz Rate |
| Latency | < 4 ms |
| Audio Frequency Response | 20 Hz ~ 20 kHz |
| S/N Ratio (Analog Output) | > 115 dB(A) |
| T.H.D. | < 0.1% @ 1 kHz |
| Audio Output | 2 Vrms |
| Antenna | 50 Ω fixed antenna \times 2 |
| Power Supply | 10 ~ 15 V DC |
| Power Consumption | < 1.5 W |
| Dimensions (W \times H \times D) | 74.5 \times 34.5 \times 149 mm / 2.9 \times 1.4 \times 5.9 " |
| Weight | 78 g / 1.3 oz |
| Transmitters | ACT-24HC Handheld & ACT-24TC Bodypack VT-24, ST-24, ET-24, MT-24 Digital Instrument Transmitter |
| Operating Temperature | -10°C ~ +60°C |
| Note | Refer to actual product in the event of product discrepancy. |

IV. Accessories

2. UHF Handheld Transmitters

1. ACT-32H Handheld Transmitter



Patents
Taiwan Utility M478971
China Utility ZL201420051347.4

2. ACT-32HR Remote Volume Control Handheld Transmitter



Patents
Taiwan Utility M478971
China Utility ZL201420051347.4

3. ACT-32HC Rechargeable Handheld Transmitter



Patents
Taiwan Design D115708
Taiwan Utility M468112
China Utility ZL201320422132.4

4. ACT-70H Wideband Handheld Transmitter



Patents :
Taiwan Utility M426236
Utility M426237
China Utility ZL201220005942.5
Utility ZL201220005924.7
Utility ZL201220574217.X

5. ACT-70HC Wideband Rechargeable Handheld Transmitter



Patents
Taiwan Design D115708
Taiwan Utility M468112
China Utility ZL201320422132.4

IV. Accessories

6. ACT-80H Digital Handheld Transmitter



Patents :
Taiwan Utility M426236
Utility M426237
China Utility ZL201220005942.5
Utility ZL201220005924.7
Utility ZL201220574217.X

7. ACT-80HC Rechargeable Digital Handheld Transmitter



Patents
Taiwan Design D115708
Taiwan Utility M468112
China Utility ZL201320422132.4

Features

1. Innovatively designed housing in MIPRO's distinctive aesthetic and ergonomic style.
2. Interchangeable capsule module with premium condenser or dynamic options for easy and fast changeovers.
3. The unique exterior grille is made with multi-layered metal mesh.
4. Patented capsule suspension design virtually eliminates vibration and handling noises.
5. The high-efficiency antenna is inside the housing.
6. LCD displays all operational parameter information.

Specifications

| Model | ACT-32H | ACT-32HR | ACT-32HC | ACT-70H | ACT-70HC | ACT-80H | ACT-80HC |
|--------------------|---|------------------------------|---------------------|--|-----------------------|------------------|----------------------|
| Type | Analog Narrowband | Analog Remote Control Volume | Analog Rechargeable | Analog Wideband | Wideband Rechargeable | Digital Wideband | Digital Rechargeable |
| Frequency Range | UHF 480 ~ 934 MHz (country dependent) | | | | | | |
| Bandwidth | 24 MHz | | | 72 MHz | | 64 MHz | |
| RF Output Power | 10 ~ 30 mW (country dependent) | | | 10 mW / 50 mW switchable (country dependent) | | | |
| Deviation | < ± 40 kHz | | | | | OBW < 200 kHz | |
| Spurious Emissions | < -55 dBc | | | | | | |
| Gain | 0 dB = input microphone sensitivity. High-fidelity modulation circuit sustains high SPL without distortion. | | | | | | |
| Dimensions (Ø × L) | 51 × 234 mm | | 51 × 250 mm | 51 × 258 mm | 51 × 250 mm | 51 × 258 mm | 51 × 250 mm |
| Net Weight | Approx. 251 g / 8.9 oz | | | | | | |
| Battery | 2 × AA | | 1 × ICR-18500 | 2 × AA | 1 × ICR-18500 | 2 × AA | 1 × ICR-18500 |
| Operating Time | Min. 12 hours (Low Power) | | | | | | |
| Charger | MP-80 / MP-20 (for rechargeable handheld transmitters) | | | | | | |
| Note | Refer to actual product in the event of product discrepancy. | | | | | | |

IV . Accessories

3. UHF Bodypack Transmitters

1. ACT-52T

2. ACT-32T

Narrowband Bodypack Transmitter



3. ACT-32TC

Rechargeable Narrowband Bodypack Transmitter



4. ACT-70T

Wideband Bodypack Transmitter



Patents :
Taiwan Utility M424706
Design D150218
China Utility ZL201120536034.4
Design ZL201130429380.8

5. ACT-70TC

Rechargeable Wideband Bodypack Transmitter



IV. Accessories

6. ACT-80T

Wideband Bodypack Transmitter



Patents :
Taiwan Utility M424706
Design D150218
China Utility ZL201120536034.4
Design ZL201130429380.8

7. ACT-80TC

Rechargeable Digital Wideband Bodypack Transmitter



Features

1. Lightweight, compact size with sturdy plastic housing.
2. On the top features mute switch, mini-XLR connector and antenna.
3. Backlit LCD displays all operational parameter information.
4. Innovatively designed battery cover allows easy access to operate buttons and prevents accidental operation.
5. Mute button with remote-control jack for easy activation of mute function.
6. Can directly match to high-low input impedance for microphone or guitar without switching. The built-in level limiter prevents distortion at the maximum input level.
7. Mini-XLR input with secure screw lock connector for lavalier / headworn mics and guitar.
8. Adjustable belt clip allows wearing transmitter in up or down position.

Specifications

| Model | ACT-52T | ACT-32T | ACT-32TC | ACT-70T | ACT-70TC | ACT-80T | ACT-80TC |
|------------------------|--|----------------|-------------------------------------|---------------|---------------|---------------|---------------|
| Housing | Composite of various metals | Rugged Plastic | Composite of various metals | Metal | | | |
| Frequency Range | UHF 480 ~ 934 MHz (country dependent) | | | | | | |
| Bandwidth | 24 MHz | | | 72 MHz | | 64 MHz | |
| RF Output Power | 10 mW / 50 mW switchable (country dependent) | | | | | | |
| Deviation | < ± 40 kHz | | | | | OBW < 200 kHz | |
| Spurious Emissions | ≤ -55 dBc | | | | | | |
| Oscillation Mode | PLL Synthesized | | | | | | |
| Frequency Stability | ± ± 0.005% (-10 – +60°C) | | | | | | |
| Max. Input Level | 0 dBV | | | | | +5 dBV | |
| Dimensions (W × H × D) | 63 × 82 × 22 mm / 2.5 × 3.2 × 0.9 " | | 63 × 70 × 25 mm / 2.5 × 2.7 × 1.0 " | | | | |
| Net Weight | 99 g / 3.5 oz | 83 g / 2.9 oz | 76 g / 2.7 oz | 81 g / 2.9 oz | | | 85 g / 3 oz |
| Battery | 2 × AA | | 1 × ICR-18500 | 2 × AA | 1 × ICR-18500 | 2 × AA | 1 × ICR-18500 |
| Operating Time | Min. 12 hours | | | | | | |
| Charger | MP-80 / MP-20 (for rechargeable handheld transmitters) | | | | | | |
| Note | Refer to actual product in the event of product description discrepancy. | | | | | | |

IV. Accessories

4. 2.4 GHz Transmitters

1. ACT-24HC

Rechargeable Digital
Handheld Transmitter



Patents
Taiwan Design D115708
Taiwan Utility M468112
China Utility ZL201320422132.4

2. ACT-24TC

Rechargeable Digital
Bodypack Transmitter





Specifications

| Model | ACT-24HC | ACT-24TC |
|---------------------|---|--|
| Type | Handheld transmitter | Bodypack transmitter |
| Main Features | Innovatively designed sterling gray metal housing in MIPRO's distinctive aesthetic and ergonomic style. | Miniature, sturdy plastic compact design. |
| | Bright LEDs for battery status. | 3 LEDs indicate battery status and turn to red to indicate low battery. |
| | Unscrew the grille to open the battery compartment to exchange the lithium battery or simply charge the transmitter in the charger. | Unique battery cover design provides easy access to operational controls and protects against accidental change of settings. |
| | Interchangeable capsule module with premium condenser or dynamic options for easy and fast changeovers. The unique multi-layered metal grille protects the capsule against impact, rolling and pop noise. Proprietary capsule suspension design eliminates vibrations and touch noises. | Mini-XLR input with secure screw lock connector for lavalier / headworn mics and guitar. |
| | X | Mute button with remote-control jack for easy activation of mute function. An LED indicates action status. |
| Frequency Range | 2.4000 ~ 2.4835 GHz | |
| RF Output Power | 2 mW / 10 mW switchable (country dependent) | |
| Channel Set-up | ACT Sync | |
| Transmitting Method | Frequency hopping | |
| Max. Audio Input | 6.5 dBV | |
| Capsules | Interchangeable ECM or Dynamic capsules | Headworn: MU-13 / MU-23 / MU-210 / MU-53HN / MU-55HN Lavalier: MU-53L / MU-55L |
| Impedance | Refer to the capsule | 1.0 M Ω |
| Dimensions | 51 × 248 mm / 2.0 × 9.8 " (Ø × L) | 63 × 70 × 25 mm / 2.5 × 2.8 × 1 " (W × H × D) |
| Net Weight | Approx. 255 g / 9 oz | Approx. 62 g / 2.2 oz |
| Battery | ICR-18500 rechargeable lithium battery (MB-5) × 1 | |
| Operating Time | A 25-minute fast charge provides up to 1 hour operation. Minimum 10 hours of operation per 4-hour full charge (depending on the battery quality). | |
| Battery Meter | 4-level green/red LED display | |
| Charger | MP-80 / MP-20 | |
| Note | Refer to actual product in the event of product description discrepancy. | |

IV. Accessories

5. Instrument Transmitters

1. VT Series String Instrument Transmitters




| Model | VT-22 | VT-24 |
|----------------------------|---|---|
| Photo |  |  |
| Name | Wireless Viola/Violin Transmitter | Digital Wireless Cello Transmitter |
| Wireless Transmission Type | UHF analog modulation | 2.4 GHz digital modulation |
| Capsule Module | VM-22 | VM-24 |
| Transmitter | Rechargeable analog transmitter | MT-24 digital transmitter |
| Receiver Module | MRM-70B, MRM-72B | MRM-24 |
| Installation | Mount the VT-22 with a proprietary holder in a position that pick up the accurate sound of the viola or violin. | Mount the VT-24 with a proprietary holder in a position that pick up the accurate sound of the cello. |
| Battery | Rechargeable lithium battery | ICR 18500 rechargeable lithium battery (MB-5) |

Features

1. The VT-22 wireless viola/violin set is designed for a cable-free, truly wireless violin audio performance. Simply integrate the miniature, lightweight VT-22 transmitter to its proprietary violin mount and connect to VM-22. This attaches snugly to violins and is easy to install and remove while protecting these expensive instruments from surface scratches. Strategically placed in flexible positions, it will not interfere during performances.
2. The VT-24 digital wireless saxophone transmitter is a VM-24 integrated with a MT-24 digital transmitter for wireless transmission to the ACT-2400 Series receivers or a MRM-24 receiver module hooked up to a portable PA.

IV. Accessories

2. ST Series Saxophone Transmitters

| Model | ST-32 | ST-24 | SH-32 |
|----------------------------|---|---|---|
| Photo |  |  |  |
| Name | Wireless Saxophone Transmitter | Digital Wireless Saxophone Transmitter | Saxophone Microphone Clip |
| Wireless Transmission Type | UHF analog modulation | 2.4 GHz digital modulation | N/A |
| Capsule Module | MU-10 / MU-16 / MU-20 interchangeable condenser microphone capsule modules | | |
| Microphone | N/A | SM-24 | N/A |
| Transmitter | Rechargeable analog transmitter | MT-24 digital transmitter | N/A |
| Receiver Module | MRM-70B, MRM-72B | MRM-24 | N/A |
| Installation | Mount the ST-32 / ST-24 with SH-32 clip in a position that pick up the accurate sound of the saxophone. | | |
| Battery | Rechargeable lithium battery | ICR 18500 rechargeable lithium battery (MB-5) | N/A |

Features

1. The ST-32 wireless saxophone transmitter is a SM-32 integrated with a transmitter for wireless transmission to the ACT-Series receivers or MA-Series wireless PA system.
2. The ST-24 digital wireless saxophone transmitter is a SM-24 integrated with a MT-24 digital transmitter for wireless transmission to the ACT-2400 Series receivers or a MRM-24 receiver module hooked up to a portable PA.
3. Simply clamp the ST-32 / ST-24 transmitter module snugly with SH-32 clip to a saxophone or other wind instrument. The compact, lightweight ST-32 / ST-24 is easy to install and remove. Strategically placed in flexible positions, it will not interfere during performances.

IV. Accessories

3. ET Series Erhu Transmitters

| Model | ET-32 | ET-24 | EH-32 |
|----------------------------|---|---|---|
| Photo |  |  |  |
| Name | Wireless Erhu Transmitter | Digital Wireless Erhu Saxophone Transmitter | Erhu Microphone Clip |
| Wireless Transmission Type | UHF analog modulation | 2.4 GHz digital modulation | N/A |
| Capsule Module | MU-10 / MU-16 / MU-20 interchangeable condenser microphone capsule modules | | |
| Transmitter | Rechargeable analog transmitter | ACT-24TC digital transmitter | N/A |
| Receiver Module | MRM-70B, MRM-72B | MRM-24 | N/A |
| Installation | Mount the ET-32 / ET-24 with EH-32 in a position that pick up the accurate sound of the Erhu. | | |
| Battery | Rechargeable lithium battery | ICR 18500 rechargeable lithium battery (MB-5) | N/A |

Features

1. The patented ET-32 erhu transmitter has been designed after collaborating with erhu musicians. The detachable wide dynamic range condenser microphone capsules, MU-10, MU-16 and MU-20, offer optimal flexibility for performers. The capsules could be installed on a shock-proof capsule mount, which is connected to a gooseneck and integrate with a miniature transmitter. Simply integrate the ET-32 to the EH-32 and strategically place it in a position that picks up the accurate sound of erhu and avoids touching and hitting noises.
2. The ET-32 requires an ACT-Series receiver or MA-Series wireless PA system for wireless transmission. The lightweight ET-32 is easy to install and remove, not obstructive to performers and ideal for erhu performers.
3. The ET-24 digital wireless erhu set comprises an EM-24 erhu microphone connecting with a SC-32 cable to ACT-24TC bodypack transmitter and mounted on an erhu with an EH-32 clip for wireless transmission to a compatible receiver.

IV . Accessories

4. MT-24 Digital Guitar Transmitter



Features

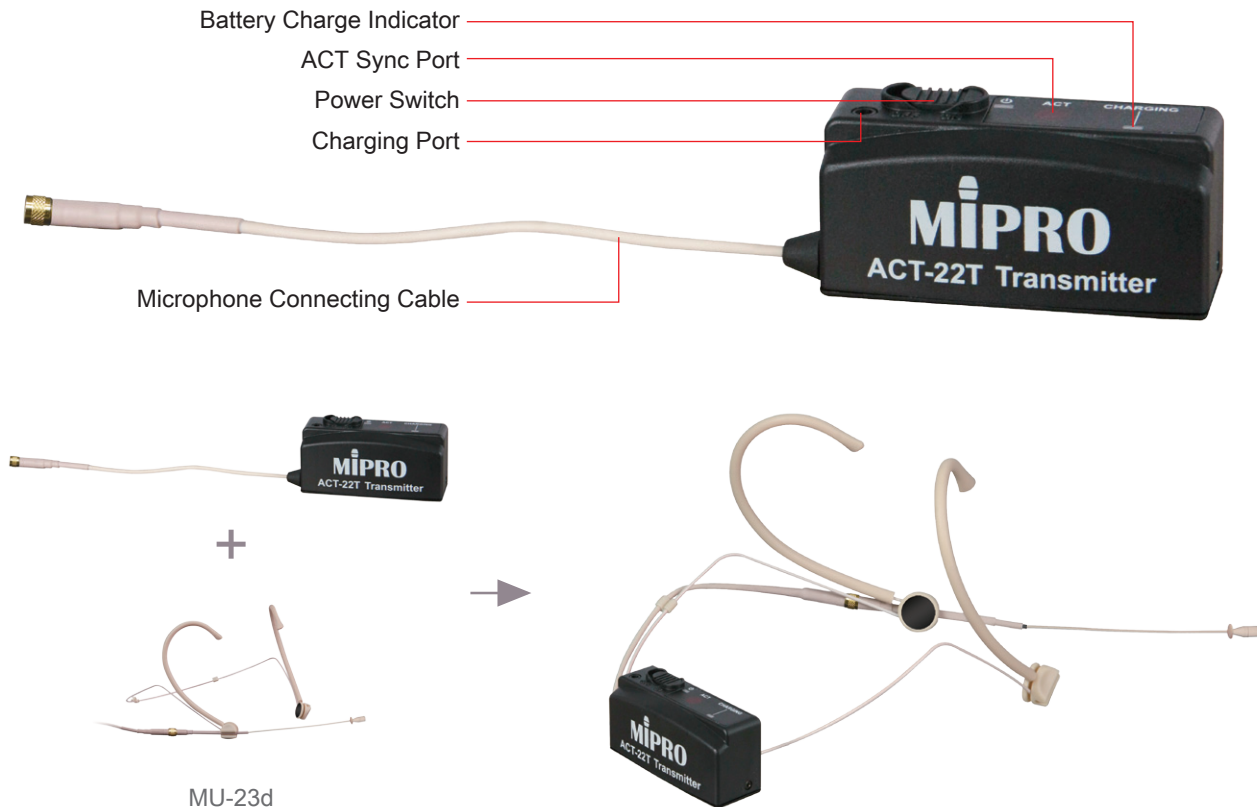
1. The MT-24 is a digital transmitter with an integrated 3.5 mm to 6.3 mm threaded adaptor. The plug can be rotated up to 90° . Simply plug it into the guitar for a cable-free, truly wireless audio performance, requiring an MRM-24 receiver module or ACT-2400 Series receivers.
2. The MT-24 can be plugged into an electric/acoustic guitar, bass, keyboard, MIDI, keytar, accordion, PC, smartphone, projector with phone jack audio output for a true wirelessly audio amplification and performance.

Specifications

| Model | MT-24 |
|--------------------|--|
| Name | Digital Guitar Transmitter |
| Transmitter | MT-24 digital transmitter |
| Frequency Range | 2,400 ~ 2,483.5 MHz |
| Receiver Module | MRM-24 |
| Installation | Plug the MT-24 into the guitar |
| Battery | ICR 18500 rechargeable lithium battery (MB-5) |
| Charger (optional) | MP-20 or MP-80 charging station with MPA-24 adaptor plug |

IV. Accessories

5. ACT-22T Miniature Headworn Transmitter



Features

1. MIPRO introduces the ACT-22T, a compact, miniature transmitter. It allows complete freedom of mobility when connected with a headworn microphone with no bodypack and no cable. This true wireless solution offers a hands-free operation without cable entanglement and poor connection problems.
2. The ACT-22T utilizes PLL synthesized technology for increased RF stability and is packed into a lightweight, miniature housing so the transmitter can rest comfortably and securely, unobtrusive behind the head of the performer.
3. Featuring a built-in rechargeable lithium battery with a quick charger for extended battery hours, the transmitter's patented ACT sync enables fast and easy transmitter setup with any MIPRO receiver.
4. The ACT-22T can be connected to a MU-210d or MU-23d headworn microphone. The ACT-22T is easy to use and ideal for education, theater, aerobics/fitness, houses of worship applications and anywhere true wireless freedom is desired.

Specifications

| | |
|------------------------|--|
| Frequency Range | 480 ~ 934 MHz (country dependent) |
| Bandwidth | 24 MHz |
| Oscillation Mode | PLL Synthesized. Frequency stability $\leq \pm 0.005\%$ (-10°C ~ +60°C) |
| Channel Set-up | ACT Sync |
| RF Output Power | 10 ~ 30 mW (country dependent) |
| Deviation | $< \pm 40$ kHz |
| Spurious Emissions | < -55 dBc |
| Battery Type | Built-in rechargeable lithium battery |
| Operating Time | Min. 4 hours |
| Headset Mics | MU-23d / MU-210d |
| Dimensions (W × H × D) | 180 × 26 × 20 mm 7.1 × 1 × 0.8 " |
| Weight | Approx. 41 g / 1.4 oz, rechargeable battery included |
| Patent & Approvals | Patented. Telecom and safety regulations approved. |
| Notes | Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries. |

IV. Accessories

6. Wireless Interlinking Transmitters

1. MT-91 Interlinking Transmitter Module



2. MT-92 Interlinking Transmitter Module

3. MTM-92 Interlinking Transmitter Module



MT-92



MT-92

MTM-92

Features

1. 16 selectable channels.
2. Numeric LED display.
3. Modular design allows easy installation and replacement.
4. MT-91 fits MA-505 portables. MTM-92 fits MA-708 or MA-808 portables.

Specifications

| Model | MT-91 | MT-92 | MTM-92 |
|------------------------|--|---|--|
| Frequency Range | UHF 480 ~ 934 MHz (country dependent) | | |
| Bandwidth | 24 MHz | | |
| Oscillation Mode | PLL Synthesized | | |
| RF Output Power | 10 / 100 mW switchable (country dependent) | | |
| Spurious Emissions | < -45 dBm | | |
| Dimensions (W × H × D) | 75 × 35 × 165 mm 2.9 × 1.4 × 6.4 " | 65 × 34.5 × 165 mm 2.5 × 1.3 × 6.4 " | 220 × 57 × 190 mm 8.6 × 2.2 × 7.5 " |
| Weight | Approx. 85 g / 3 oz | Approx. 80 g / 2.8 oz. | Approx. 410 g / 14.5 oz |
| Notes | Refer to actual product in the event of product description discrepancy. | | |

IV. Accessories

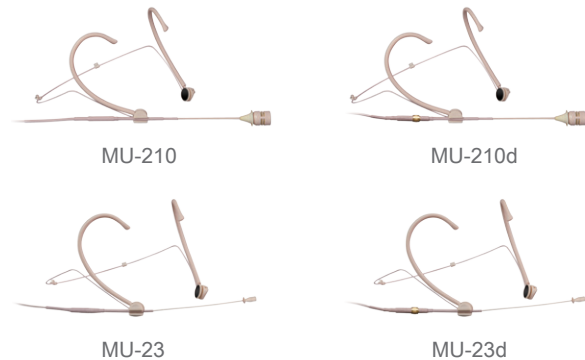
7. Bodypack Transmitter Microphones

1. MU Series Lavalier Microphone



MU-53L MU-53LS MU-55L MU-55LS

2. MU Series Headworn Microphone



MU-210 MU-210d
MU-23 MU-23d

Features

1. Detachable or fixed microphone boom options. Detachable boom can be worn on left or right & detached for replacement or servicing.
2. Resistant to moisture, perspiration and salts.
3. Detachable boom can connect to the cables with various connector types.
4. Soft yet flexible thin boom bends 120° and holder can be rotated for an ideal fit.
5. With a high fidelity, wide frequency response, high dynamic range, rapid transient response for a true natural sound reproduction.

Specifications

| Type | Lavalier Microphones | | | | Headworn Microphones | | | |
|--------------------|--|---------|-------------------------|---------|-----------------------------|------------|-----------------------|------------|
| Model | MU-53L | MU-53LS | MU-55L | MU-55LS | MU-210 | MU-210d | MU-23 | MU-23d |
| Color | Black | Beige | Black | Beige | Beige | | | |
| Connector | Fixed | | | | Fixed | Detachable | Fixed | Detachable |
| Capsule | 10 mm uni-directional | | 4.5 mm omni-directional | | 10 mm uni-directional | | 3 mm omni-directional | |
| Sensitivity | -46 dBV / Pa | | -49 dBV / Pa | | -46 dBV / Pa | | -56 dBV / Pa | |
| Frequency Response | | | | | | | | |
| Polar Pattern | | | | | | | | |
| Max. SPL | 142 dB | | 135 dB | | 142 dB | | 138 dB | |
| Plug | 4-pin mini XLR or TA4F | | | | 4-pin mini XLR (screw-lock) | | | |
| Cable Length | 150 cm / 59 " | | | | 150 cm / 59 " | | | |
| Weight | Approx. 17 g / 0.6 oz | | Approx. 11 g / 0.4 oz | | Approx. 27 g / 1.0 oz | | Approx. 22 g / 0.8 oz | |
| Note | Refer to actual product in the event of product description discrepancy. | | | | | | | |

IV. Accessories

8. Audio Player Modules

1. DPM-3P

NEW

USB/SD Player & Recorder Module



Features

1. Records from Line-input into SD card or USB.
2. Single track can be deleted during playback.
3. Recording standard. Sample rate 44.1 kHz / Bit rate 192 kbps.
4. Support MP3 / WMA / FLAC / APE / WAV / M4A / AAC / OGG format.
5. Speed control for fast and slow play.
6. Song management by music folders.
7. Repeat, Fast forward/reverse search.
8. Numeric selection and random playback.
9. Random playback.
10. Wireless remote control included.
11. Can repeat specified period for language learning function.
12. Ideal for live recording.
13. Fits MA-505, MA-708 or MA-808.

2. DPM-3 USB/SD Player & Recorder Module



Detachable Remote Control



Rear Panel



Front Panel

Features

1. Records from Line-input into SD card or USB.
2. Can repeat specified period for language learning function.
3. Single track can be deleted during playback.
4. Song management by music folders.
5. Equalizer modifies bass, treble and other sonic.
6. Repeat, Fast forward/reverse search.
7. Numeric selection and random playback.
8. Remote control can be operated on-board or detached from the panel.
9. Fits MA-505, MA-708 or MA-808.

3. CDM-3A/CDM-3AP CD/USB Player & Recorder Module



CDM-3A



CDM-3AP



Features

1. Records from Line-input into USB.
2. Can repeat specified period for language learning function.
3. Single track can be deleted during playback.
4. Song management by music folders.
5. Repeat, Fast forward/reverse search.
6. Numeric selection.
7. Random playback & programmable tracks.
8. CDM-3A fits MA-505, MA-708, MA-808.
9. CDM-3AP fits MA-707.

IV. Accessories

4. CDM-2/CDM-2P CD/USB Player Module



CDM-2



CDM-2P



Features

1. Plays standard CD and USB flash disk.
2. Selection and Search.
3. Random & repeat playback.
4. USB 2.0 port.
5. Wireless remote control included.
6. CDM-2 fits MA-505, MA-708, MA-808.
7. CDM-2P fits MA-707.

5. CDM-2A CD Player Module



Features

1. Plays standard CD.
2. Selection and Search.
3. Programmable tracks.
4. Random & repeat playback.
5. Wireless remote control included.
6. CDM-2A fits MA-505, MA-708, MA-808.

6. CDM-2B/CDM-2BP CD/USB/Bluetooth Player Module



CDM-2B



CDM-2BP



Features

1. Bluetooth for wireless audio streaming.
2. Plays standard CD and USB flash disk.
3. Selection and Search.
4. Random & repeat playback.
5. USB 2.0 port.
6. Wireless remote control included.
7. CDM-2B fits MA-505, MA-708, MA-808.
8. CDM-2BP fits MA-707.

IV. Accessories

9. Rechargeable Batteries

1. MB-80 12V Lithium Iron Phosphate Battery Case



The MB-80 holds four MB-15 LFP batteries (batteries are not included)



MB-15 LFP battery (optional)

Patents : Taiwan Utility M478918
China Utility ZL201420055548.1

Features

1. MB-80 battery case is designed to hold four 65~70mm (length) lithium iron phosphate (LFP) batteries. Four series-connected battery voltage coincides and are compatible with the voltage of 12V lead-acid batteries. Therefore, it can be a direct replacement battery for the existing MB-70 lead-acid battery inside the MIPRO MA-707, MA-708 & MA-808 portable wireless PA systems.
2. Currently, the lithium iron phosphate battery (LFP battery) is recognized as the leader for number of charge and discharge cycles of rechargeable battery. Generally, the average life of a rechargeable lead-acid or lithium battery is 500 discharge-recharge cycles. Higher quality LFP has up to 2,000 discharge-recharge cycles. It is considered as an environmentally friendly battery, superior cycle life, reduced failures and half the weight of an equivalent capacity lead-acid, thus, an ideal replacement and upgrade battery option. It is readily available by MIPRO and other rechargeable battery shops.
3. MB-80 has BMS smart battery management circuits and provides safe charging protection technology and extremely long life cycles.

Specifications

1. It holds four MB-15/26650/32700 LFP rechargeable batteries.
2. Same polarity direction insertion with screws and hooks for secured and easy installation.
3. Standard output voltage 12.8V; maximum continuous output current up to 8A.
4. Safe shorts circuit technology prevents overcharging and safe operation.
5. Each battery has overcharge and over discharge protection circuits; overcharge protection voltage 3.9V; over-discharge protection voltage 2.0V.
6. Smart management circuit ensures balanced charging and discharge states.
7. Four 32650 high-capacity rechargeable LFP batteries installed in a MB-80 can be interchangeable with one MB-70 rechargeable sealed lead-acid battery. Refer to MA-707 / 708 / 808 specifications for charge and standby times.
8. Net Weight: 245 grams / 8.6 ounces (case only, excluding 4 batteries).
9. Dimensions: 89.5 (W) × 101 (H) × 69.5 (D) mm (same dimensions as MB-70, 12V/4.5Ah).
10. Flame retardant class V0.

2. General LFP Battery Specifications & Capacity Characteristics

| Type | 32650 (MB-15) high capacity | 32650 standard capacity | 32700 high capacity | 26650 standard capacity | 26650 high capacity |
|---------------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|
| Capacity | 5.0Ah | 4.0Ah | 5.0Ah | 2.3Ah | 3.0Ah |
| Dimensions (D × L) | 32 × 65 mm / 1.3 × 2.6 " | 32 × 65 mm / 1.3 × 2.6 " | 32 × 70 mm / 1.3 × 2.8 " | 26 × 65 mm / 1 × 2.6 " | 26 × 65 mm / 1 × 2.6 " |
| Weight (1 cell) | Approx. 130 g / 4.6 oz | Approx. 125 g / 4.4 oz | Approx. 140 g / 4.9 oz | Approx. 82 g / 2.9 oz | Approx. 84 g / 3.0 oz |
| MB-80 Weight (battery included) | Approx. 765 g / 26.9 oz | Approx. 745 g / 26.3 oz | Approx. 805 g / 28.4 oz | Approx. 573 g / 20.2 oz | Approx. 581 g / 20.4 oz |

3. Replacement Rechargeable Batteries

| Model | MB-5 | MB-10 | MB-15 | MB-25 | MB-35 | MB-70 | MB-80 |
|------------|---|------------------|-------------------|-------------------------------|---------------|----------------------------|----------------------------|
| Photo | | | | | | | |
| Name | Lithium ICR 18500 | Lithium | Lithium LFP 32650 | Lithium | Lithium | Sealed Lead-acid | Battery Case for MB-15 |
| Voltage | 3.7V / 1.5AH | 14.8V / 2.6AH | 3.2V / 5.0AH | 14.8V / 2.6AH | 22.2V / 4.5AH | 12V / 4.5AH | N/A |
| Compatible | ACT-24HC/TC, ACT-32HC/TC, ACT-70HC/TC, ACT-80HC/TC, ST-24/ET-24/MT-24/VT-24 | MA-100 MA-303 | MB-80 | MA-101B MA-101G MA-202B | MA-505 | MA-707 MA-708 MA-808 | MA-707 MA-708 MA-808 |

IV. Accessories

10. Charging Station

1. MP-80 3-in-1 Transmitter Charger Station

Patents
Taiwan Utility M477090
Taiwan Design D163311



2 Handhelds

1 Handheld + 1 Bodypack

1 Handheld + 1 MB-5

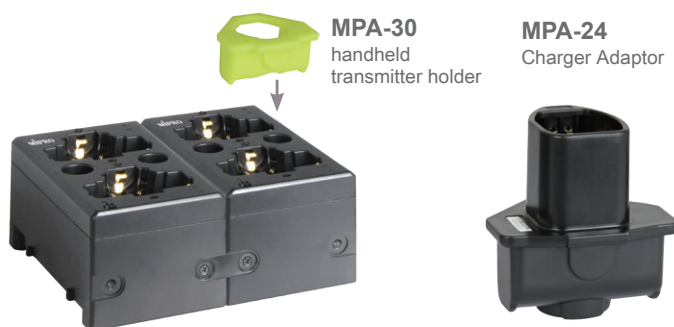
2 Bodypacks

1 Bodypack + 1 MB-5

2 MB-5

2 MB-5 Storage

Interconnected Multiple Chargers



MPA-30
handheld
transmitter holder

MPA-24
Charger Adaptor

Features

MP-80 is an intelligent 3-in-1 charging station provides efficient and safe charging. It is designed exclusively for MIPRO rechargeable handheld / bodypack transmitters and batteries. Each station has two charging slots and two storage slots for 2 spare ICR18500 (MB-5) lithium batteries. Other than quick and trickle charge, it has the reverse polarity protection circuit to prevent charging errors. Precise charging status with red (charging) & green (charged) indicators for easy reading by the users. Multiple charging stations can be easily connected for more charging options.

2. MP-20 Charger Station



Features

MP-20 is a two-slot battery charger for MB-5 lithium battery used in MIPRO rechargeable handheld / bodypack transmitters. It has regulation current and the reverse polarity protection circuit. Precise charging status with red (charging) & green (charged) indicators for easy reading by the users.





Specifications

| Model | MP-80 | MP-20 | MPA-24 |
|------------------------|--|---------------------------------------|--|
| Input Voltage Range | DC 10~ 15 V / 1A | DC 12V / 0.5A | N/A |
| Battery | ICR 18500 3.7 V Li-ion battery | | N/A |
| Charge Current | Approx. 500 mA by regulation current | | N/A |
| Current Consumption | Approx. 600 mA / 12 V, for two batteries charging at the same time | | N/A |
| Charge Method | Termination by 20% regulation current | N/A | N/A |
| Function | For charging transmitters and lithium batteries | | For MT-24 transmitter to place on MP-80 charging station |
| Dimensions (W × H × D) | 92 × 78 × 158 mm 3.6 × 3.1 × 6.2 " | 60 × 32 × 103 mm 2.4 × 1.3 × 4.1 " | 72 × 58 × 77 mm 2.8 × 2.3 × 3 " |
| Weight | Approx. 313 g / 11 oz | Approx. 76 g / 2.7 oz | Approx. 55 g / 1.9 oz |
| Note | Refer to actual product in the event of product discrepancy. | | |

IV. Accessories

11. Others

1. Stands

| Model | MS-11 | MS-30 | MS-70 | MS-90 |
|------------|---|---|--|---|
| Photo |  |  |  |  |
| Name | Bracket | Tripod Stand | Tripod Stand | Bracket |
| Compatible | MA-101ACT | MA-100, MA-101B, MA-101G, MA-202B, MA-303 | MA-505, MA-707, MA-708, MA-808 | MA-303, MA-303AXP |

2. Storage | Carry Bags























| Model | SC-10 | SC-20 | SC-30 | SC-50 | SC-70 | SC-75 | SC-80 |
|------------|---|---|---|---|---|---|---|
| Photo |  |  |  |  |  |  |  |
| Name | Carry Bag | Carry Bag | Carry Bag | Storage Bag | Storage Bag | Storage Bag | Storage Bag |
| Compatible | MA-100, MA-101B, MA-101G | MA-202B | MA-303 | MA-505 | MA-707 | MA-708 | MA-808 |








3. Extension Speakers

| Model | MA-101EXP | MA-303AXP | MA-505EXP | MA-707EXP | MA-708EXP | MA-808EXP |
|------------|---|---|---|--|---|---|
| Photo |  |  |  |  |  |  |
| Name | Extension | Extension | Extension | Extension | Extension | Extension |
| Power | Passive | Active | Passive | Passive | Passive | Passive |
| Compatible | MA-101ACT | MA-303 | MA-505 | MA-707 | MA-708 | MA-808 |

IV. Accessories

MA Receiver Modules & Compatible Transmitters

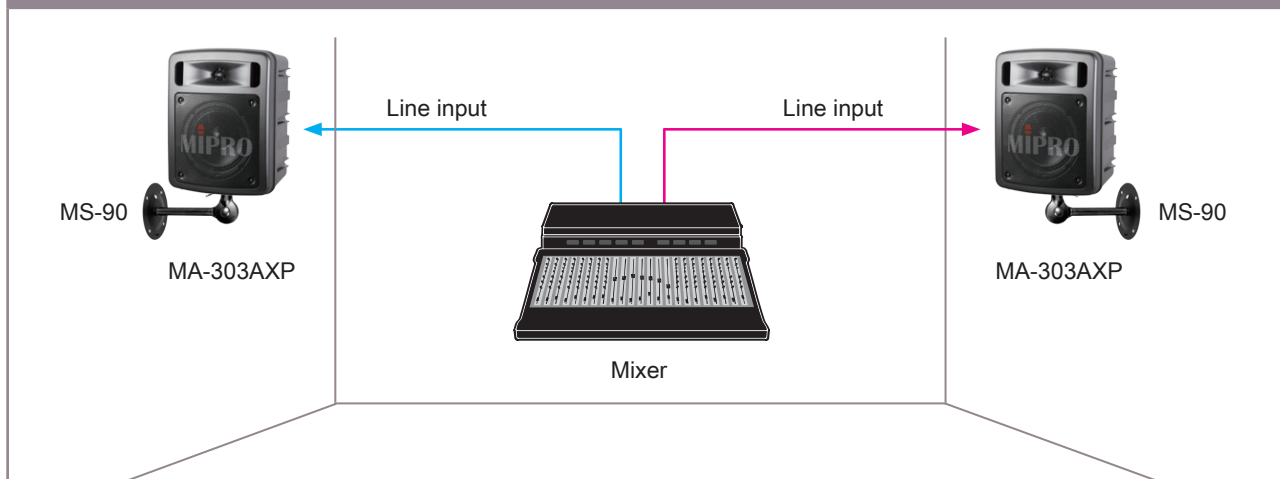
| UHF | |
|---|---|
| Receiver Module | Transmitter |
|  <p>MRM-80</p> |     <p>ACT-80H ACT-80HC ACT-80T ACT-80TC</p> |
|  <p>MRM-70W</p> |     <p>ACT-70H ACT-70HC ACT-70T ACT-70TC</p> |
|  <p>MRM-70B</p>  <p>MRM-72B</p> |       <p>ACT-32H ACT-32HR ACT-32HC ACT-52T ACT-32T ACT-32TC</p>     <p>VT-22 ST-32 ET-32 ACT-22T</p> |

| 2.4 GHz | |
|---|--|
| Receiver Module | Transmitter |
|  <p>MRM-24</p> |       <p>ACT-24HC ACT-24TC ST-24 ET-24 MT-24 VT-24</p> |

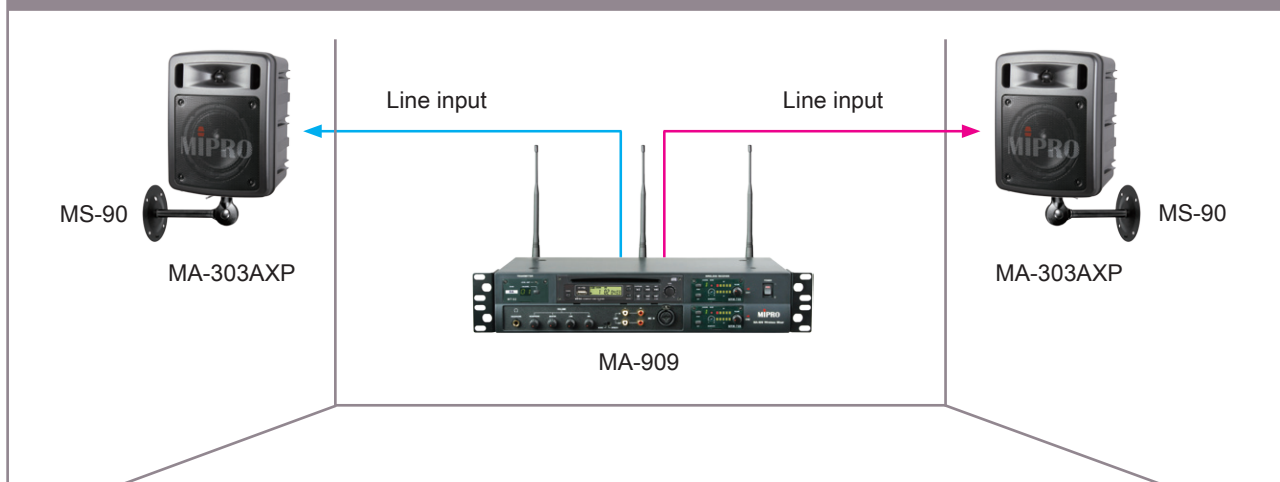
IV . Accessories

MA-303AXP Applications

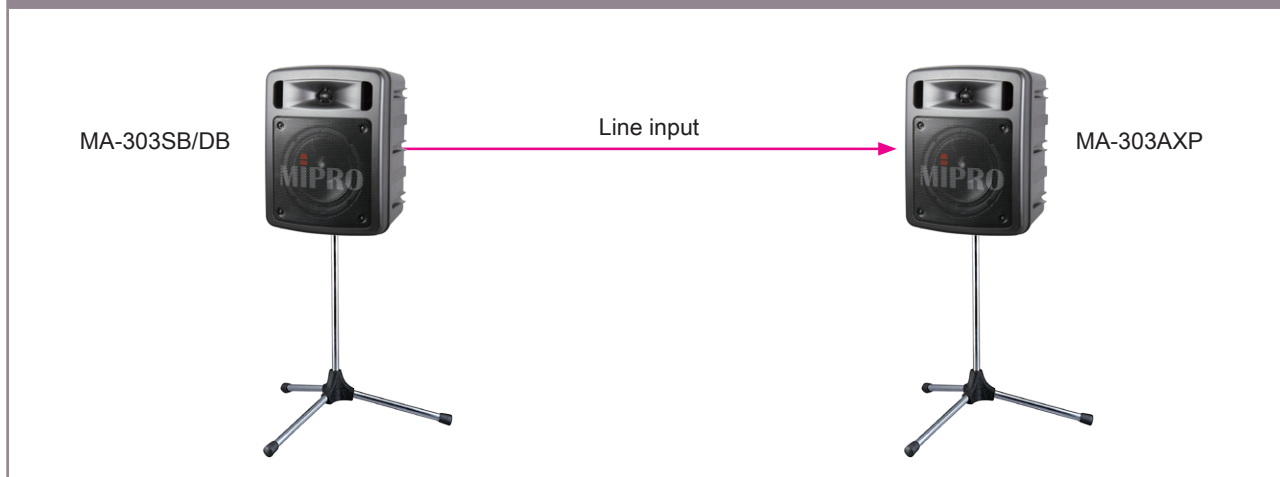
MA-303AXP Active Speaker (Line input) Application # 1- Mixer output to MA-303AXP line input



MA-303AXP Active Speaker (Line input) Application # 2 - MA-909 line output to MA-303AXP line input









MA-303AXP Active Speaker (Line input) Application # 3 - MA-303 line output to MA-303AXP line input









IV. Accessories

Personal Wireless PA Systems Comparison Chart

| Model | MA-202B | MA-101B | MA-101G | MA-101ACT | MA-100SB | MA-100DB |
|-----------------------------------|---|---|---|---|---|---|
| Photo |  |  |  |  |  |  |
| Max. Power Output | 56 Watts | 45 Watts | | | 50 Watts | |
| Amplifier | Class D | Class AB | Class D | | | |
| Sensitivity | Typical: 96 dB Maximum: 105 dB | Typical: 95 dB Maximum: 107 dB | | Typical: 94 dB Maximum: 103 dB | Typical: 90 dB Maximum: 102 dB | |
| T.H.D. | < 1% | | < 0.1% @ 1 kHz | < 1% | | |
| Speaker | 1 " Tweeter 5 " Woofer | 5 " Full-Range | | | | |
| Power Supply | AC Rechargeable Battery | | | AC only | AC Rechargeable Battery | |
| Built-in Battery | Lithium MB-25 × 1 | | | N/A | Lithium MB-10 × 1 | |
| Charge Time | Up to 4 hours | | | N/A | Up to 4 hours | |
| Standby Time | Up to 8 hours | Up to 10 hours | | N/A | Up to 12 hours | Up to 10 hours |
| Battery Indicator | 3-level Mic & 4-level Amp Indicators | Single Indicator | | N/A | 4-level Indicator | |
| Line Input | 6.3 mm × 1 | 3.5 mm × 1 | | 3.5 mm Line × 1 (on MT-101ACT) | 3.5 mm × 1 | |
| Line Output | N/A | 3.5 mm × 1 | | N/A | 3.5 mm × 1 | |
| Mic Input | 6.3 mm × 1 | | | N/A | 6.3 mm × 1 | |
| Bluetooth Connectivity | N/A | | | Optional | Yes | |
| Installation | Shoulder Strap, Hand Carry , Flat Surface or Microphone Stand | | | Wall-Mounting | Shoulder Strap, Hand Carry , Flat Surface or Microphone Stand | |
| Tripod Stand Type | MS-30 Microphone Stand | | | N/A | MS-30 Microphone Stand | |
| Storage Compartment | For ACT-222T Handheld | N/A | | | | |
| Storage Cover | SC-20 | SC-10 | | N/A | SC-10 | |
| Dimensions | mm | 163 × 206 × 306 | | 190 × 275 × 155 | 135 × 140 × 240 | |
| (W × H × D) | inches | 6.4 × 8.1 × 12 | | 7.5 × 10.8 × 6.1 | 5.3 × 5.5 × 9.4 | |
| Approx. Weight (battery included) | 2.9 kg / 6.4 lbs | 2.2 kg / 4.8 lbs | | 2.3 kg / 5 lbs | 1.8 kg / 3.9 lbs | 1.9 kg / 4.1 lbs |
| Color | Black | Grayish Black | Black | Black | Black, optional White | |
| Wireless System | | | | | | |
| Maximum Receiver | 1 | | | | | 2 |
| Receiver Installation | Built-in Fixed | | | | | |
| Frequency Range | UHF 480 ~ 934 MHz | | 2.4 ~ 2.4835 GHz | UHF 480 ~ 934 MHz | | |
| Bandwidth | 24 MHz | | 83.5 MHz | 24 MHz | | |
| Preset Channel | 16 | 16 | 10 | 97 | 16 | |
| Channel Set-up | Scan & Sync (ACT) | | | ACT | Scan & Sync (ACT) | |
| Transmitter | ACT-222T ACT-32H / HC ACT-32T / TC | ACT-32H / HC ACT-32T / TC | ACT-24HC / TC | MT-101ACT | ACT-32H / HC ACT-32T / TC | |
| Audio Player | | | | | | |
| Built-in USB Port | USB 2.0 | N/A | | | USB 2.0 | |
| Digital Audio Player | USB Player & SD card reader | N/A | | | USB Player & Recorder | |

IV. Accessories

Portable Wireless PA Systems Comparison Chart

| Model | MA-808 | MA-708 | MA-707 | MA-505 | MA-303SB | MA-303DB |
|-----------------------------------|---|---|---|--|---|---|
| Photo |  |  |  |  |  |  |
| Max. Power Output | 267 Watts | 190 Watts | 100 Watts | 145 Watts | 60 Watts | |
| Amplifier | Class AB/D | Class AB/D | Class AB | Class D | | |
| Sensitivity | Typical: 96 dB Maximum: 111 dB | Typical: 89 dB Maximum: 108 dB | Typical: 98 dB Maximum: 111 dB | Typical: 91 dB Maximum: 109 dB | Typical: 92 dB Maximum: 102 dB | |
| Speaker | 1.5 " Compression Driver & 10 " Woofer | 1 " Compression Driver & 8 " Woofer | 8 " Full-Range | 1 " Tweeter & 8 " Woofer | 1 " Tweeter + 5 " Woofer | |
| Coverage | H 60° × V 50° | H 80° × V 60° | N/A | H 130° × V 90° | H 120° × V 70° | |
| Power Supply | Built-in 100 ~ 240V AC switching power supply (Max. Power Consumption: MA-505: 165W MA-705: 70W MA-707: 120W MA-708: 220W MA-808: 352W) | | | | External 100 ~ 240 V AC switching power supply (Max. Power Consumption: 60W) | |
| Built-in Battery | Sealed Lead-Acid MB-70 × 2 (optional LFP MB-80 × 2) | | | Lithium MB-35 × 1 | Lithium MB-10 × 1 | |
| Charge Time | Up to 8 hours | | | Up to 4 hours | | |
| Standby Time | Up to 6 hours | Up to 7 hours | Up to 8 hours | Up to 8 hours | Up to 11 hours | Up to 9 hours |
| Battery Indicator | 4-level Indicator | | Single Indicator | 4-level Indicator | | |
| Inputs | Line: RCA × 1 Mic: XLR & 6.3 mm × 1 | | Line: 6.3 mm × 1 Mic: XLR & 6.3 mm × 1 | Line: 3.5 mm × 1 Mic: XLR & 6.3 mm × 1 | Line: 3.5 mm × 1 Mic: 6.3 mm × 1 | |
| Bluetooth Connectivity | Yes | | Optional CDM-2BP | Yes | | |
| Voice Over Priority | Yes | | N/A | Yes | N/A | |
| Echo Control | Yes | | N/A | | | |
| Tone Control | Yes | | | | N/A | |
| Retractable Handle & Wheels | Yes | | | N/A | | |
| Transport | Retractable handle and wheels | | | Molded Fixed Handle | | |
| Tripod Stand Type | MS-70 | | | | MS-30 | |
| Storage Compartment | 2 Handhelds or 2 Bodypacks | | | N/A | | |
| Storage Cover | SC-80 | SC-75 | SC-70 | SC-50 | SC-30 | |
| Extension Speaker | MA-808EXP | MA-708EXP | MA-707EXP | MA-505EXP | MA-303AXP | |
| Dimensions (W × H × D) | mm | 360 × 560 × 350 | 336 × 545 × 325 | 310 × 445 × 240 | 275 × 400 × 225 | |
| | inches | 14.2 × 22 × 13.8 | 13.2 × 21.5 × 12.8 | 12.2 × 17.5 × 9.4 | 10.8 × 15.7 × 8.9 | |
| Approx. Weight (battery included) | 20.5 kg / 45 lbs | 16.3 kg / 36 lbs | 14.8 kg / 32.5 lbs | 8.5 kg / 18.7 lbs | 2.7 kg / 6 lbs | 2.8 kg / 6.2 lbs |
| Wireless System | | | | | | |
| Maximum Receiver | Up to 4 | | Up to 2 | Up to 4 | 1 | 2 |
| Receiver Installation | Plug-in Module | | | Built-in & Plug-in | Built-in Fixed | |
| Receiver Module | Optional MRM-70B, MRM-70W, MRM-80, MRM-24 | | | | N/A | |
| Frequency Range | MRM-70B MRM-70W MRM-80: UHF 480 ~ 934 MHz (country dependent) MRM-24: 2.4 ~ 2.4835 GHz | | | | UHF 480 ~ 934 MHz (country dependent) | |
| Preset Channel | MRM-70B: 16 / MRM-70W: 104 / MRM-80: 64 / MRM-24: 12 | | | | 16 | |
| Channel Set-up | Scan & Sync (ACT) | | | | | |
| Wireless Interlinking Transmitter | Optional MTM-92 | | N/A | Optional MT-91 | N/A | |
| Audio Player | | | | | | |
| Audio Player | CDM-2 CDM-2A CDM-2B CDM-3A DPM-3 DPM-3P (optional) | | CDM-2P CDM-2BP CDM-3AP (optional) | CDM-2 CDM-2A CDM-2B CDM-3A DPM-3 DPM-3P (optional) | USB Player & Recorder (built-in) | |

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MIPRO MA-708 portable wireless PA wins “2016 Red Dot”



MIPRO president, Solomon Chang & VP, Eugen Chen



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