

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



MT-101ACT Handheld Transmitter

Controls and Indicators



Optional Accessories



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



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



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



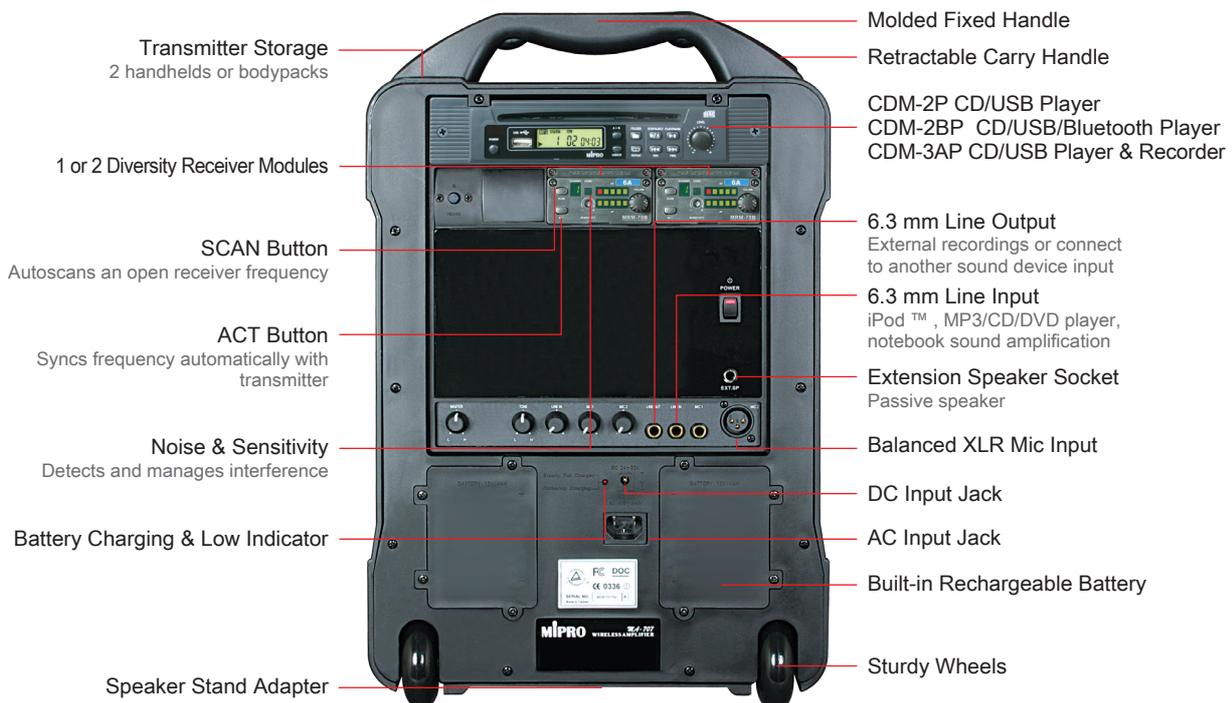
Transmitters

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



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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



MRM-80

NEW

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 x H x D)	75 x 35 x 141 mm 3.0 x 1.4 x 5.6 "	220 x 57 x 190 mm 8.7 x 2.2 x 7.5 "	75 x 35 x 141 mm 3.0 x 1.4 x 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

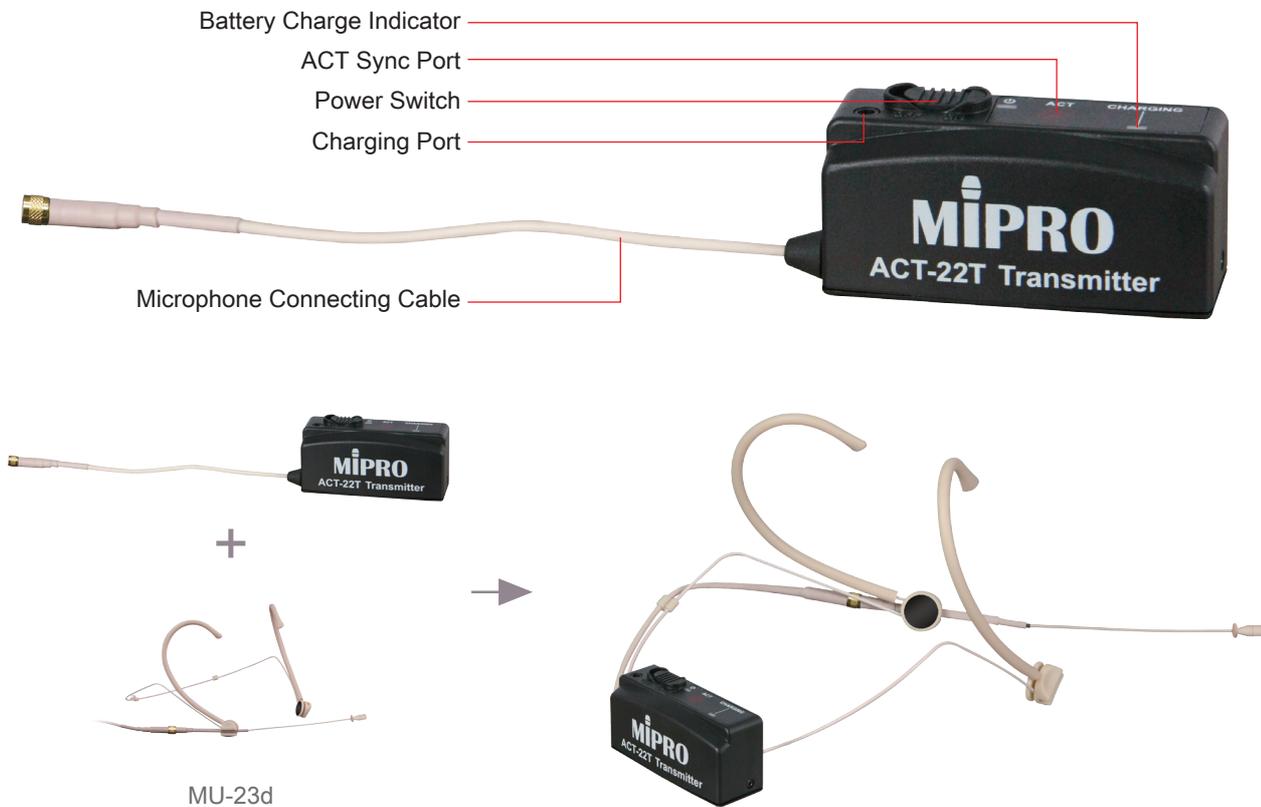
1. The MT-24 is a digital transmitter with an integrated 3.5 mm to 6.3 mm threaded adaptor. The plug can be rotated up to 90°. Simply plug it into the guitar for a cable-free, truly wireless audio performance, requiring an MRM-24 receiver module or ACT-2400 Series receivers.
2. The MT-24 can be plugged into an electric/acoustic guitar, bass, keyboard, MIDI, keytar, accordion, PC, smartphone, projector with phone jack audio output for a true wireless 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 x H x D)	180 x 26 x 20 mm 7.1 x 1 x 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 x H x D)	75 x 35 x 165 mm 2.9 x 1.4 x 6.4 "	65 x 34.5 x 165 mm 2.5 x 1.3 x 6.4 "	220 x 57 x 190 mm 8.6 x 2.2 x 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

2. MU Series Headworn Microphone



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

Patents : Taiwan Utility M478918
China Utility ZL201420055548.1



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



MB-15 LFP battery (optional)

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

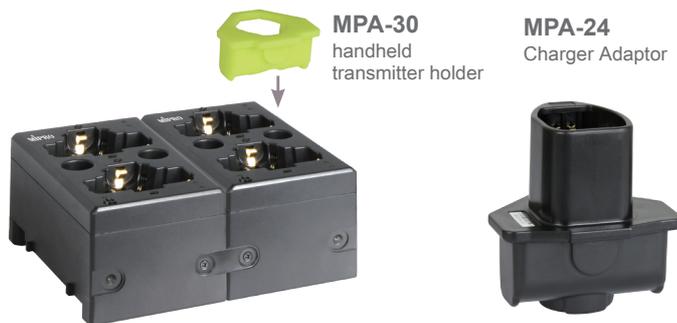
10. Charging Station

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



Patents
Taiwan Utility M477090
Taiwan Design D163311

Interconnected Multiple Chargers



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

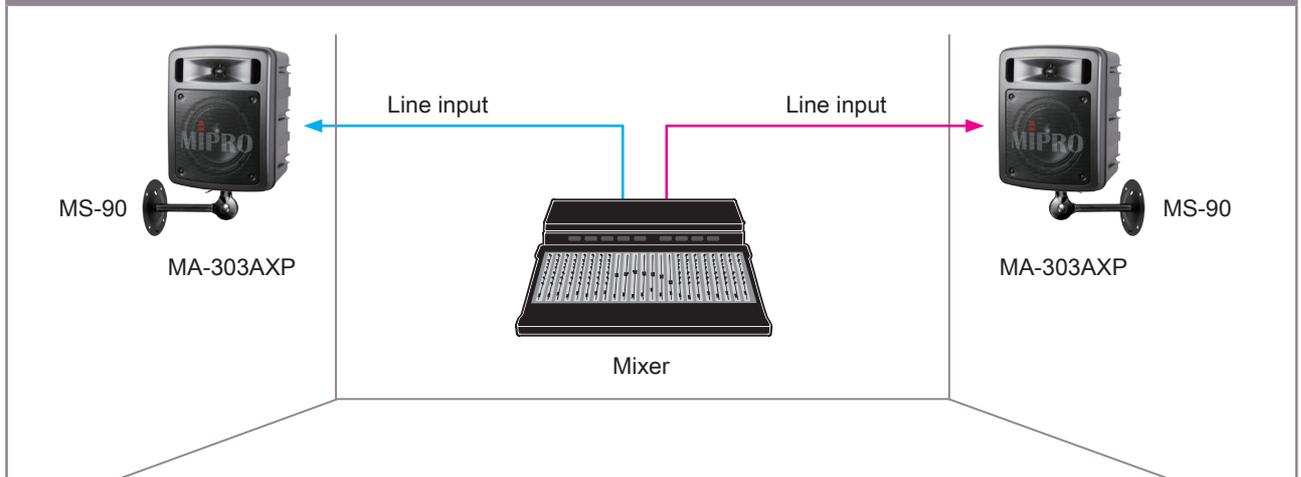
UHF	
Receiver Module	Transmitter
 <p>MRM-80</p>	    <p>ACT-80H ACT-80HC ACT-80T ACT-80TC</p>
 <p>MRM-70W</p>	    <p>ACT-70H ACT-70HC ACT-70T ACT-70TC</p>
 <p>MRM-70B</p>  <p>MRM-72B</p>	      <p>ACT-32H ACT-32HR ACT-32HC ACT-52T ACT-32T ACT-32TC</p>     <p>VT-22 ST-32 ET-32 ACT-22T</p>

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

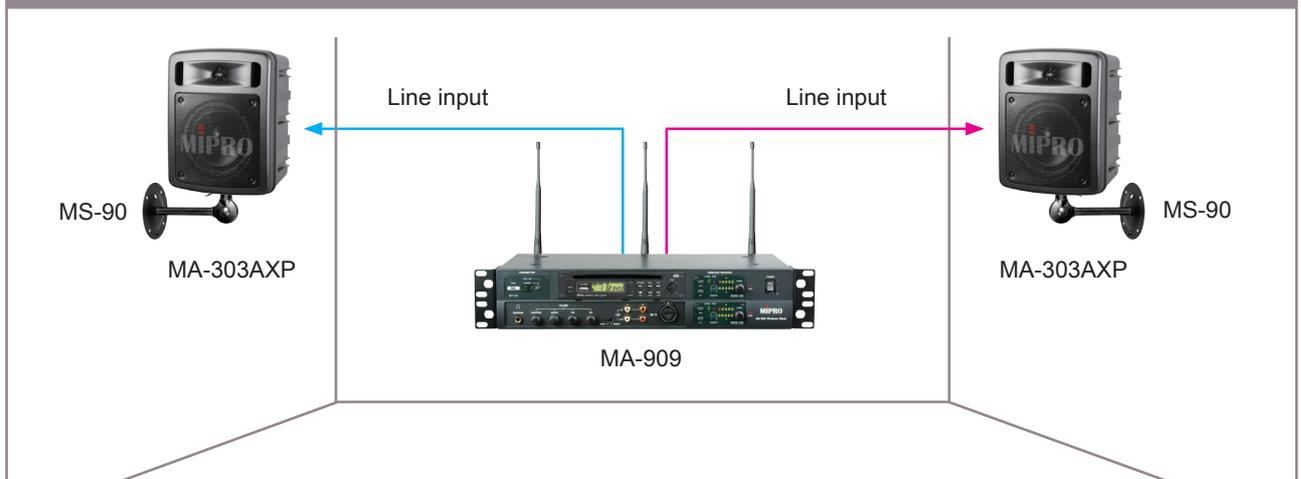
IV . Accessories

MA-303AXP Applications

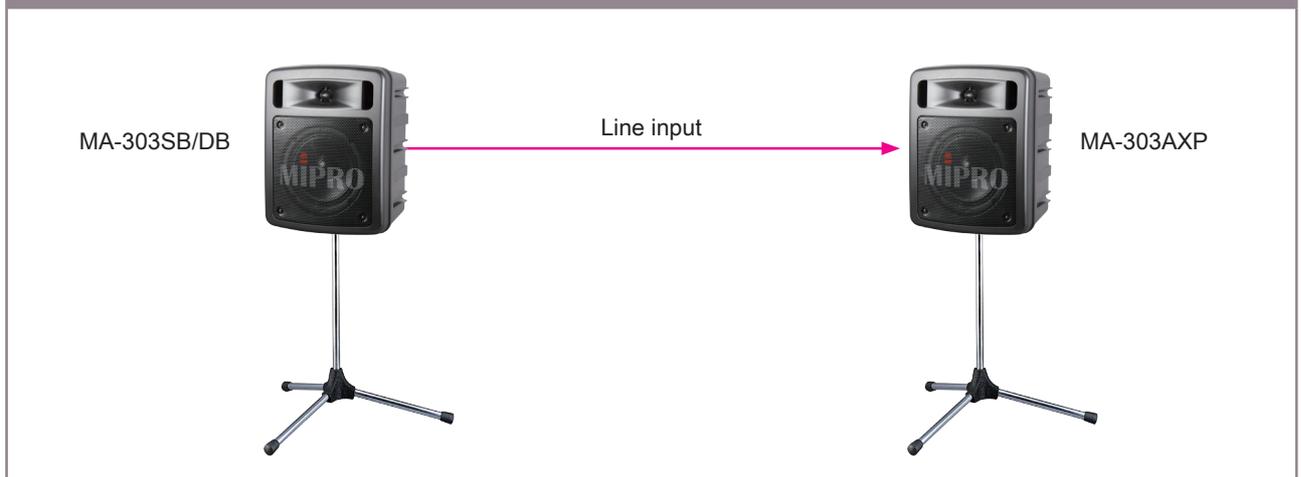
MA-303AXP Active Speaker (Line input) Application # 1- Mixer output to MA-303AXP line input



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	160 × 178 × 285		190 × 275 × 155	135 × 140 × 240	
(W × H × D) inches	6.4 × 8.1 × 12	6.3 × 7 × 11.2		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	210 × 276 × 165	
	inches	14.2 × 22 × 13.8	13.2 × 21.5 × 12.8	12.2 × 17.5 × 9.4	10.8 × 15.7 × 8.9	8.3 × 11 × 6.5	
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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