

Profile

1. MIPRO professional analog wireless systems features the latest wireless features and functions such as excellent multi-channel systems compatibility and RF stability.
2. Two series are available: wideband 72 MHz ACT-70 series and narrowband 24 MHz ACT-700 series.
3. Three receiver configurations for ACT-70 series are available: ACT-74 quad-channel, ACT-72 dual-channel, ACT-71 single-channel true diversity receivers.
4. Three receiver configurations for ACT-700 series are available: ACT-747B quad-channel, ACT-727B dual-channel, ACT-717B single-channel true diversity receivers.
5. Two types of transmitters are available: powered by AA batteries or powered by a lithium rechargeable battery.
6. Below are the ACT-70 series frequency codes:

USA Frequency Codes (MHz)

5UA 482~554	5UB 554~626	6UA 626~698
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Europe Frequency Codes (MHz)

5UA 482~554	5UB 554~626	6UA 626~698	7UA 718~790
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ACT-70 Series: Professional Analog Wideband Wireless Systems

System Composition:

Receivers	Handheld Transmitters	Bodypack Transmitters	Transmitter Charger Station
 <p>ACT-72 ACT-74</p>  <p>ACT-71</p>	 <p>ACT-70H</p>  <p>ACT-70HC</p>	 <p>ACT-70T</p>  <p>ACT-70TC</p>	 <p>MP-80</p>

ACT-700 Series: Professional Analog Narrowband Wireless Systems

System Composition:

Receivers	Handheld Transmitters	Bodypack Transmitters	Transmitter Charger Station
 <p>ACT-727B ACT-747B</p>  <p>ACT-717B</p>	 <p>ACT-72H</p>  <p>ACT-72HC</p>	 <p>ACT-72T</p>  <p>ACT-72TC</p>	 <p>MP-80</p>

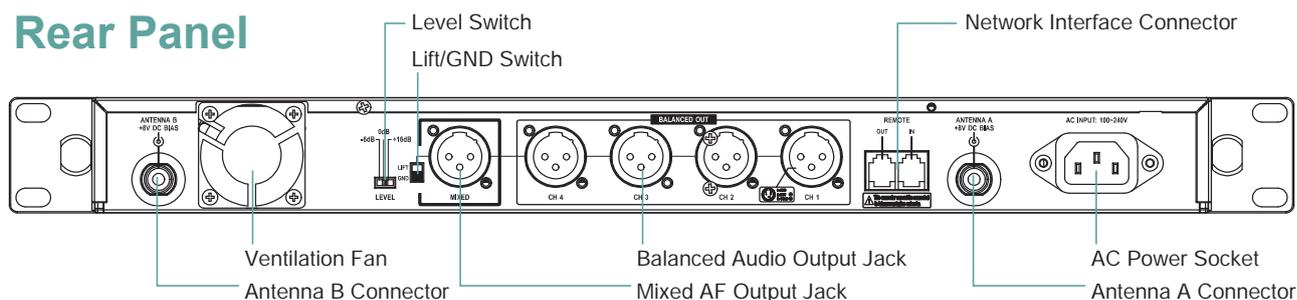
ACT-70 Series: Wideband Wireless Systems

A. Receivers

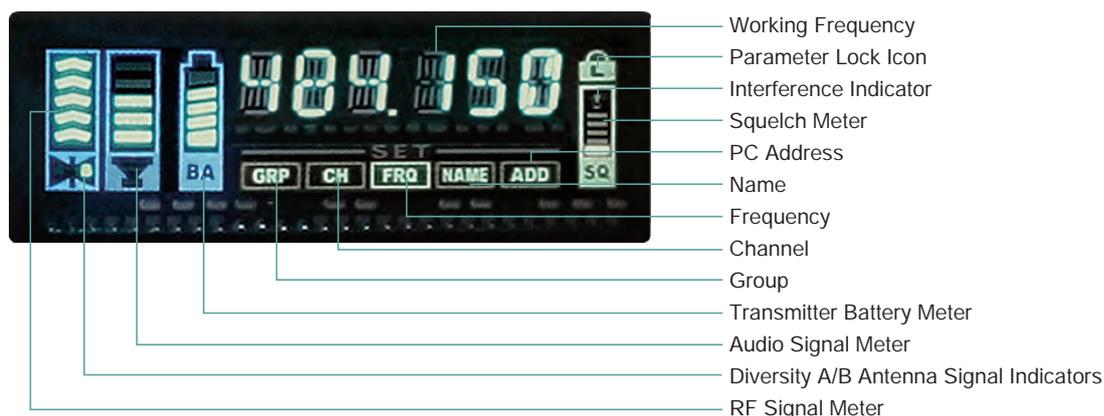
ACT-74 Wideband Quad-Channel True Diversity Receiver



Rear Panel



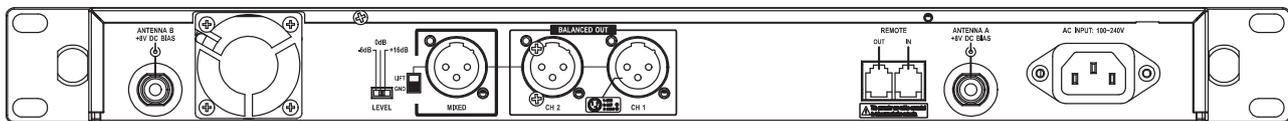
VFD Screen



ACT-72 Wideband Dual-Channel True Diversity Receiver



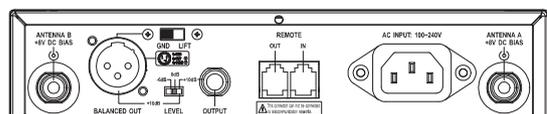
Rear Panel



ACT-71 Wideband Single-Channel True Diversity Receiver



Rear Panel



Features

1. The ACT-74 & ACT-72 receivers are EIA standard 1U rack-mountable; the ACT-71 receiver is EIA standard 1/2U rack-mountable, both with metal chassis for excellent heat dissipation & RF shielding.
2. UHF PLL synthesized circuit and advanced RF and IF circuitry to improve anti-interference characteristics and increase the number of interference-free channels available.
3. 400 preset channels with 1-set of user-defined group that saves up to 16 channels.
4. World's first ACT™ function provides precise and rapid frequency sync to the transmitters.
5. True diversity receiving for best reception quality. Dual "PiloTone & NoiseLock" circuits minimize interference.
6. Industry's only full-color VFD screen delivers a bright, clear viewing in day or night environments with automatic bright (working) and dim (standby) displays during performance.
7. All controls are intuitive and easily set up via a single rotary knob.
8. Industry's only RF interference warning indicator for proper adjustments of the SQ level. Increase sensitivity to extend the receiving range; decrease the sensitivity to reduce interference.
9. Single channel or mixed output, switchable between three output levels for the best sound quality options.
10. High dynamic range and high fidelity characteristics for transparent audio performance.
11. Receiver provides bias voltage for MIPRO antenna systems to enhance reception range and signal stability.
12. MIPRO RCS.Net software allows real-time computer setup, control and monitoring.
13. Built-in 100~240V AC switching power supply ensures system safety and stability.

Specifications

Model	ACT-74	ACT-72	ACT-71
Channel	Quad	Dual	Single
Chassis	EIA-Standard 19 " 1U		EIA-Standard 19 " 1/2U
VFD Display	Frequency, Frequency code, RF/AF meters, Transmitter battery meter, Diversity signals, Interference warning indicator, Programmable user name, Group, Channel, Squelch meter, PC address and Lock status		
Frequency Range	UHF 482~698MHz (US) , UHF 480~874MHz (EU) (country dependent)		
Bandwidth	72MHz		
Preset Channels	400 preset channels Group 01-10: 16 compatible channels in each group Group 11-15: 48 compatible channels in each group Group 16: 16 channels can be saved & recalled (user-defined)		
Receiving Mode	True Diversity		
Oscillation Mode	PLL Synthesized. Frequency stability $\leq \pm 0.005\%$ (-10~+60°C)		
Sensitivity	6dB μ V, at S/N > 80dB		
S/N Ratio	>108dB (A)		
T.H.D.	<0.5% @ 1kHz		
Frequency Response	50 Hz~18 kHz, with high pass filter		
Squelch	"PiloTone & NoiseLock" dual-squelch circuits. Rotary control for squelch adjustment.		
Audio Output Adjustment	Output level accurately pre-adjusted to equal the microphone capsule sensitivity		
Max. Output Level	Balanced: +16dBV / 0dBV / - 6dB ; Unbalanced: +10dBV / 0dBV / - 6dB		
Output Connectors	Balanced XLR		Balanced XLR & Unbalanced
Output Switch	Single channel output or mixed output		Single channel output
Operation	Manual or PC remote control via optional software		
Power Supply	Built-in 100~240V AC switching power supply; Power Consumption: ACT-74: 24W ACT-72: 15W ACT-71: 8W		
Dimensions (W x H x D)	482 x 44 x 265 mm / 19 x 1.7 x 10.5 "		210 x 44 x 230 mm 8.3 x 1.7 x 9 "
Weight	Approx. 3.4 kg / 7.5 lbs	Approx. 3.0 kg / 6.6 lbs	Approx. 1.4 kg / 3.1 lbs
Transmitter	ACT-70H / 70HC Handheld & ACT-70T / 70TC Bodypack		
Notes	Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries.		

B. Transmitters

ACT-70H Wideband Handheld Transmitter



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

The capsule module is detachable from the upper housing



Interchangeable Capsule Modules



Assembled Color-coded ID Caps



Features

1. Innovatively designed metal housing in MIPRO's distinctive aesthetic and ergonomic style.
2. Basic sterling gray color with other custom-made colors optional.
3. Turn upper housing for 2 AA battery installation and replacement.
4. Interchangeable capsule module with premium condenser or dynamic options for easy and fast changeovers.
5. The unique multi-layered metal grille protects the capsule against impact, rolling and pop noise, ensuring clarity of sound.
6. Backlit LCD displays all operational parameter information.
7. Five selectable gain settings with microphone input sensitivity of 0 dB.
8. Switchable Manual /Disable audio mute options.
9. Switchable High/Low power options.
10. The bottom housing with built-in high-efficiency antenna features power switch, mute and setup buttons for programmable gain, limiter, low-cut and RF output power.
11. Patented end-cap covers with color-coded channel identification clips. Detach the end-cap cover for parameter set-up. Reversible end-cap allows shielding of power on/off or mute switches during performance.
12. High-efficiency circuitry design provides 12~14 hours of operation from 2 AA batteries (depending on the battery quality).

ACT-70T Wideband Bodypack Transmitter



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

Features

1. Ultra slim bodypack transmitter with sturdy magnesium alloy 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. Stable PLL circuits. Automatically synchronized with the receiver's frequency by MIPRO's patented ACT™ function.
7. Can directly match to high-low input impedance for microphone or guitar without switching.
8. The input sensitivity is adjustable with six selectable gain settings.
9. Mini-XLR input with secure screw lock connector for lavalier / headworn mics and guitar.
10. Adjustable belt clip allows wearing transmitter in up or down position.
11. High-efficiency circuitry design provides 12-14 hours of operation from 2 AA batteries (depending on the battery quality).

Specifications

Model	ACT-70H	ACT-70T
Frequency Range	US Band : 482~698 MHz EU Band : 482~790 MHz	
Bandwidth	72 MHz	
Oscillation Mode	PLL Synthesized	
Channel Set-Up	ACT Sync	
RF Output Power	10 mW / 50 mW switchable (country dependent)	
Spurious Emissions	<-55dBc	
Gain Setting	+6dB, +3dB, 0dB, -3dB, -6dB (5 settings) 0 dB = input microphone sensitivity	+12dB, +6dB, 0dB, -6dB, -12dB, -18dB (6 settings) 0 dB = input microphone sensitivity
Max. SPL	142dB SPL	N/A
Max. Input Level	N/A	0dBV
Mute Connector	N/A	Optional MJ-70 remote mute switch
LCD Display	Group, Channel, Frequency, AF gain, Frequency band, RF power, Mute mode, Battery status and error codes	Group, Channel, Frequency, AF gain, Frequency band, RF power, Mute mode, Lock status, Battery status and error codes
Capsules	Interchangeable premium MU-90 / MU-80 ECM or MU-59 Dynamic	Headworn: MU-13 / MU-23 / MU-210 / MU-53HN / MU-55HN Lavalier: MU-53L / MU-55L
Battery Type	2 AA alkaline	
Current Consumption	High Power: approx. 161mA ; Low Power: approx. 120 mA	
Dimensions	50 × 258 mm / 2 × 10.1 " (Ø × L)	63 × 70 × 25 mm / 2.5 × 2.8 × 1.0 " (W × H × D)
Weight	Approx. 292 g / 10.3 oz, excluding batteries	Approx. 78 g / 2.7 oz, excluding batteries
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.	

C. Rechargeable Transmitters

ACT-70HC Rechargeable Wideband Handheld Transmitter



Patents :
Taiwan Design D115708
China Design ZL200630006688.0
U.S. Invention 7978869

The rechargeable battery can be easily replaced



Features

1. Innovatively designed metal housing in MIPRO's distinctive aesthetic and ergonomic style.
2. Basic sterling gray color with other custom-made colors optional.
3. Powered by a plug-n-play rechargeable lithium battery. Store the microphone in charger for charging when not in use.
4. Simply unscrew the grille to open the battery compartment to replace the lithium battery or charge it in the charger.
5. The unique multi-layered metal grille protects the capsule against impact, rolling and pop noise, ensuring clarity of sound.
6. Interchangeable capsule module with premium condenser or dynamic options for easy and fast changeovers.
7. Backlit LCD displays all operational parameter information.
8. Five selectable gain settings with microphone input sensitivity of 0 dB.
9. Switchable Manual / Disable audio mute options.
10. Switchable High / Low power options.
11. The bottom housing with built-in high-efficiency antenna features power switch, mute and setup buttons for programmable gain, limiter, low-cut and RF output power.
12. Patented end-cap cover with color-coded channel identification clips. Detach the end-cap cover for parameter setup. Reversible end-cap allows shielding of power on/off or mute switches during performance.
13. Transmitter has high-efficiency circuitry design. The included single rechargeable lithium battery can be easily removed or interchanged for charging. The intelligent battery charger maintains a high charge capacity for up to 600 charge cycles for cost saving and is environmentally friendly.

ACT-70TC Rechargeable Wideband Bodypack Transmitter



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

Features

1. Ultra slim bodypack transmitter with sturdy magnesium alloy 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. Stable PLL circuits. Automatically synchronized with the receiver's frequency by MIPRO's patented ACT™ function.
7. Can directly match to high-low input impedance for microphone or guitar without switching.
8. The input sensitivity is adjustable with six selectable gain settings.
9. Mini-XLR input with secure screw lock connector for lavalier / headworn mics and guitar.
10. Adjustable belt clip allows wearing transmitter in up or down position.
11. Transmitter has high-efficiency circuitry design. The included single rechargeable lithium battery can be easily removed or interchanged for charging. The intelligent battery charger maintains a high charge capacity for up to 600 charge cycles for cost saving and is environmentally friendly.

Specifications

Model	ACT-70HC	ACT-70TC
Frequency Range	US Band : 482~698 MHz EU Band : 482~790 MHz	
Bandwidth	72 MHz	
Oscillation Mode	PLL Synthesized	
Channel Set-Up	ACT Sync	
RF Output Power	10 mW / 50 mW switchable (country dependent)	
Spurious Emissions	<-55dBc	
Gain Setting	+6dB, +3dB, 0dB, -3dB, -6dB (5 settings) 0 dB = input microphone sensitivity	+12dB, +6dB, 0dB, -6dB, -12dB, -18dB (6 settings) 0 dB = input microphone sensitivity
Max. SPL	142dB SPL	N/A
Max. Input Level	N/A	0dBV
Mute Connector	N/A	Optional MJ-70 remote mute switch
LCD Display	Group, Channel, Frequency, AF gain, Frequency band, RF power, Mute mode, Battery status and error codes	Group, Channel, Frequency, AF gain, Frequency band, RF power, Mute mode, Lock status, Battery status and error codes
Capsules	Interchangeable premium MU-90 / MU-80 ECM or MU-59 Dynamic	Headworn: MU-13 / MU-23 / MU-210 / MU-53HN / MU-55HN Lavalier: MU-53L / MU-55L
Battery Type	ICR 18500 rechargeable lithium battery × 1	
Current Consumption	High Power: approx. 125mA; Low Power: approx. 100mA	
Operating Time	A 20-minute fast charge provides up to 1 hour operation. Minimum 13 hours of operation per 4-hour full charge.	
Dimensions	50 × 250 mm / 2 × 9.8" (Ø × L)	63 × 70 × 25 mm / 2.5 × 2.8 × 1.0" (W × H × D)
Weight	Approx. 276 g / 9.7 oz, excluding batteries	Approx. 73 g / 2.6 oz, excluding batteries
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.	